Oracle Restaurants

Reporting and Analytics User Guide

Release 20.x

F10922-49

September 2025

Oracle Restaurants Reporting and Analytics User Guide, Release 20.x

F10922-49

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Preface

Reporting and Analytics is a web-based application that centralizes point-of-sale (POS) data to provide operational and analytical insights into business operations, and to improve efficiency by delivering information to all roles within an organization.

Purpose

This document is intended for customers subscribed to Reporting and Analytics Advanced Cloud Services. Customers using Standard Cloud Services and On-Premise deployments may not have access to all features described in the documentation. Your organization type can affect visibility and access to features within Reporting and Analytics.

The navigation instructions throughout the documentation may not accurately depict the menu layout for your Oracle Restaurants Enterprise Back Office deployment because administrators can customize the name and organization of the groups and links in the sidebar menu. Use the navigation instructions provided as a guideline for locating the links in your deployment, or contact an administrator for assistance.

Audience

Oracle Restaurants Enterprise Back Office documentation applies to the following users:

- Users who perform day-to-day operations with Enterprise Back Office and who typically do not have permissions to configure applications.
- Administrators who configure and maintain Enterprise Back Office. Administrators can also have permissions to configure applications.
- System Administrators or Super Administrators who maintain Enterprise Back Office servers and configuration files, implement initial application settings and configurations, and maintain back-end processes such as automated jobs and data interfaces with third-party applications.

Customer Support

To contact Oracle Customer Support, access the Support Portal at the following URL:

https://iccp.custhelp.com/

When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

Documentation

Oracle Restaurants product documentation is available on the Oracle Help Center at http://docs.oracle.com/en/industries/food-beverage/.

Revision History

Table 1 Revision History

Date	Description of Change
October 2020	Initial publication.
January 2021	• Added information on API accounts and Business Intelligence API. • Updated Organizational Hierarchies. • Added Guest Checks.
February 2021	Added Password Requirements section.
March 2021	Added Scheduled Reports section.
April 2021	Added sections on the hierarchy administrator and functional administrator.
June 2021	• Added Configure Tender Media Master Items for Daily Operations Report section. • Added Screen Resolution section.
August 2021	• Updated Dashboards section with definition of current hour. • Added Accessing Reporting and Analytics section.
September 2021	• Updated Adding a Location Group section. • Updated Adding Locations section with phone details.
November 2021	• Updated Adding an Export Configuration. • Moved Payment role information to *Oracle Restaurants Payment Service* documentation.
December 2021	Updated Creating Day Parts.
January 2022	Updated business date range in Searching for Guest Checks.
March 2022	• Added Edit Sales and Tax Labels. • Added VAT and GST Tax Labels. • Updated Currency and Exchange Rate. • Updated Enabling Currency Configuration. • Updated Adding a Currency Type. • Added Setting a Location’s Currency.
May 2022	Updated Supported Languages with user interface language options.

Table 1 (Cont.) Revision History

Date	Description of Change
September 2022	• Updated Adding an Export Schedule with PGP encryption details. • Updated Adding Locations with details about using Simphony to add locations. • Updated Building a Custom Report in Microsoft Excel. • Updated Searching for Guest Checks with wildcard search details. • Updated Adding a Delivery Profile. • Added Retrieving Transaction Information with Audit & Analysis.
October 2022	• Added Exporting Audit & Analysis Queries.
January 2023	• Added Integrations chapter. • Added Configure Export Status Notifications. • Added Export Status Notifications. • Updated Searching for Guest Checks. • Updated Data Permissions. • Updated Adding an Export Schedule. • Updated Searching for Guest Checks. • Updated Data Permissions. • Updated Adding a Delivery Profile. • Updated Adding an Export Schedule.
April 2023	• Added Visibility of Gross Sales and Tips. • Updated Adding an Export Schedule. • Updated Exporting Reports. • Updated Searching for Guest Checks. • Updated Navigating Reporting and Analytics. • Updated Adding a Delivery Profile.
June 2023	• Added Simphony Inventory. • Updated Add Users. • Updated Item Alignment.
July 2023	• Updated Adding Locations.
October 2023	• Updated Building a Report with the Basic Editor. • Updated Building a Report with the Advanced Editor. • Updated Adding API Accounts.
November 2023	• Updated Adding a Delivery Profile.
May 2024	• Added People Management chapter. • Added De-identifying a Person. • Updated User Management. • Updated Adding a Delivery Profile. • Updated Organizational Hierarchies. • Updated Adding Locations. • Updated Establishing Relationships Between Levels and Locations. • Updated Adding Locations.

Table 1 (Cont.) Revision History

Date	Description of Change
June 2024	Revised API Accounts and Viewing API Activity.
July 2024	• Updated Searching for and Viewing People.
September 2024	• Added Copying a Person. • Updated Creating Reporting Hierarchies. • Updated Adding API Accounts. • Updated Passwords and Locked Accounts. • Grant Access to Point of Sale Operations.
March 2025	• Updated Navigating Reporting and Analytics for release 20.2. • Updated VAT and GST Tax Labels for release 20.2. • Updated Day Parts for release 20.2. • Updated Troubleshooting for release 20.2. • Updated Running Reports for release 20.2. • Updated Exporting Reports for release 20.2. • Updated Adding a Delivery Profile for release 20.2. • Updated Data Permissions for release 20.2. • Updated Searching for Guest Checks for release 20.2. • Updated Information to Provide to CrunchTime! for release 20.2. • Updated Passwords and Locked Accounts for release 20.2.
April 2025	• Added Subject Areas. • Added Gift and Loyalty Subject Areas. • Added Inventory Management Subject Areas. • Added Labor Details and Employee Information. • Added Daily Aggregated Sales and Operations Subject Areas. • Added Common Currency Subject Areas. • Added Quarter Hour Aggregate Sales and Operations Subject Areas. • Added Transactions and Transaction Details. • Added Other Subject Areas.
June 2025	• Updated Adding an Export Configuration. • Updated Adding an Export Schedule.

Table 1 (Cont.) Revision History

Date	Description of Change
September 2025	• Updated Searching for Guest Checks • Updated Searching for and Viewing People. • Updated Adding a Delivery Profile. • Updated Export Configurations • Updated Specify Employment Details • Updated Export Schedules • Updated Passwords and Locked Accounts. • Added Adding a Business Intelligence API Account. • Added Adding a Simphony Transaction Services API Account. • Adding a Content and Configuration API Account.

1

Getting Started

Reporting and Analytics is a web-based reporting solution that helps you understand and act on data for your enterprise's food and beverage operations. Reporting and Analytics receives data from point-of-sale (POS) workstations and makes that data available through reports and dashboard tiles.

The following table lists examples of how people interpret and take action on data:

Person	Example
Chief Operating Officer	The Chief Operating Officer wants to view a comparison of sales for three signature hamburgers in different regions and wants to view a comparison of district and location sales.
Store Manager	The Store Manager wants to identify the most and least profitable menu items, and to identify positive and negative sales and cost outliers.
Loss Prevention Manager	The Loss Prevention Manager wants to identify people with increasing error correction totals due to it being a potential sign of fraud.
Business Analyst	The Business Analyst wants to determine which locations are most profitable with the guests they attract, which locations are upselling, which locations could profit by upselling more items, and which locations have trouble attracting customers.

Supported Browsers and Cookie Usage

The following table lists browser and platform support details for Reporting and Analytics 20.x and other Enterprise Back Office 9.1 products:

Browser	Reporting and Analytics 20.x	Labor Management 9.1	Gift and Loyalty 9.1	Inventory Management 9.1
Mozilla Firefox	**Supported** [1] [2]	**Supported** [3]	**Supported**	**Supported**
Microsoft Edge	**Supported**	**Supported** [4]	**Supported**	Not Supported
Google Chrome	**Supported** [5]	Not supported	Not supported	Not supported
Apple Safari	**Supported**	Not supported	Not supported	Not supported

Browser	Reporting and Analytics 20.x	Labor Management 9.1	Gift and Loyalty 9.1	Inventory Management 9.1
Microsoft Internet Explorer (versions 11 and 10) [6]	Not supported	**Supported**	**Supported**	**Supported**

1 Not supported on Google Android or Apple iOS.
2 Enterprise Maintenance Services (EMS) client is not supported.
3 Advanced Scheduler client is not supported.
4 Time Clock Application (TCA) for RES 3700 download is not supported.
5 Not supported on Apple iOS.
6 Support for Microsoft browsers follows the same N-1 support policy that iOS provides. The most recent version plus one previous release. As of January 12, 2016, this means the most recent version of Microsoft Edge only.

Reporting and Analytics uses cookies to improve your app experience by remembering your visits.

Accessing Reporting and Analytics

To access Reporting and Analytics from a tablet or desktop computer, use the URL that was provided by Oracle.

To access Employee Self Service from a mobile device or tablet, add `/mobile` to the end of the original URL. For example: `https://<your Reporting and Analytics URL>/mobile`. See the "Employee Self Service" section of the *Oracle Restaurants Labor Management User Guide* for more information.

To switch to the tablet and desktop-optimized page, click **Go To Desktop Site** at the bottom of the page.

Screen Resolution

The Reporting and Analytics user interface is optimized for screen resolutions between 768 x 480 for tablet landscape or portrait mode and 1920 x 1080 for 1080p high-definition display units.

Navigating Reporting and Analytics

Explore the dashboard layout and report features.

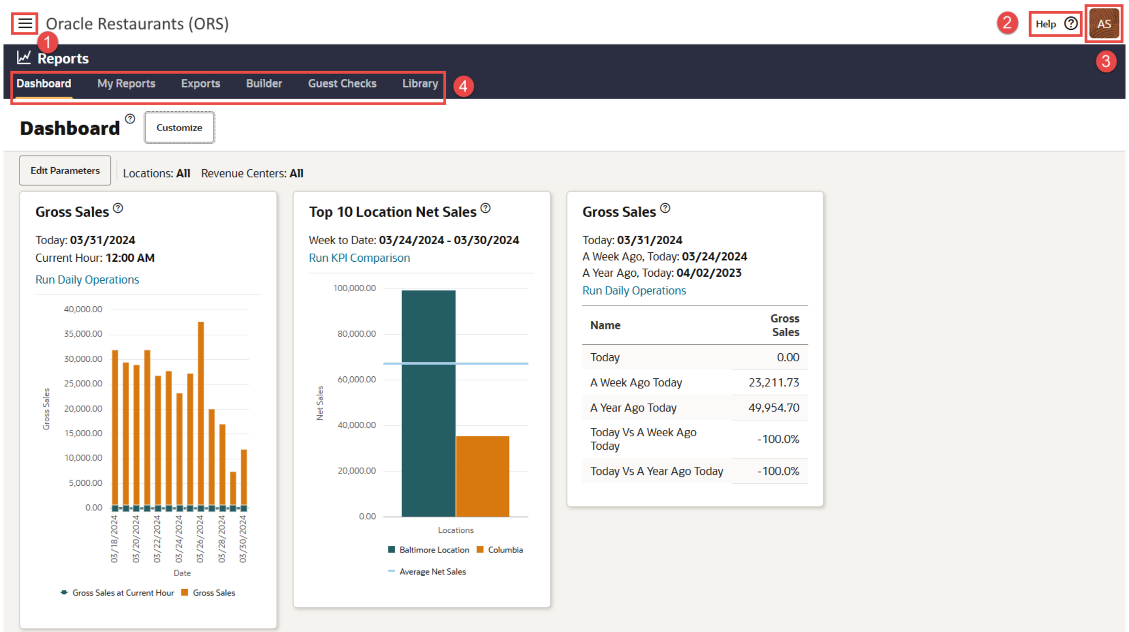
Home Page

My Reports is your home page in Reporting and Analytics.

Dashboard

Elements on the dashboard are called out by number in the table and correspond to the image. These elements are anchored and appear on every page within Reporting and Analytics.

Callout Number	Element	What It's Used For
1	Side navigation menu	Navigate between reports, administration features, and portlets.
2	Help	Hover over or click the icon wherever it appears to find out more information.
3	Your menu	View profile or sign out.
4	Reports navigation	Access report features.



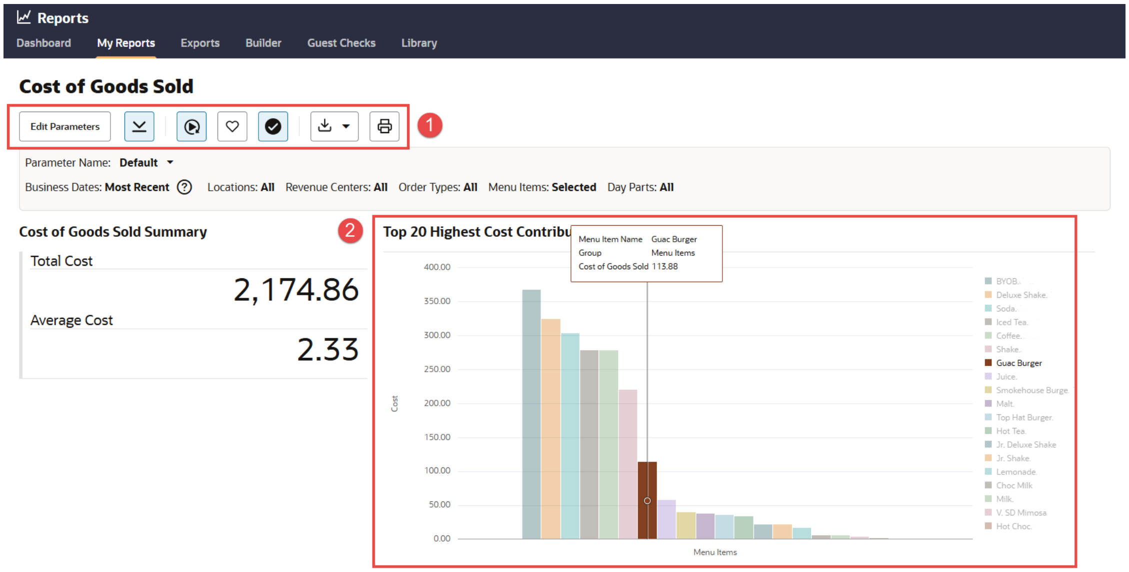
Reports

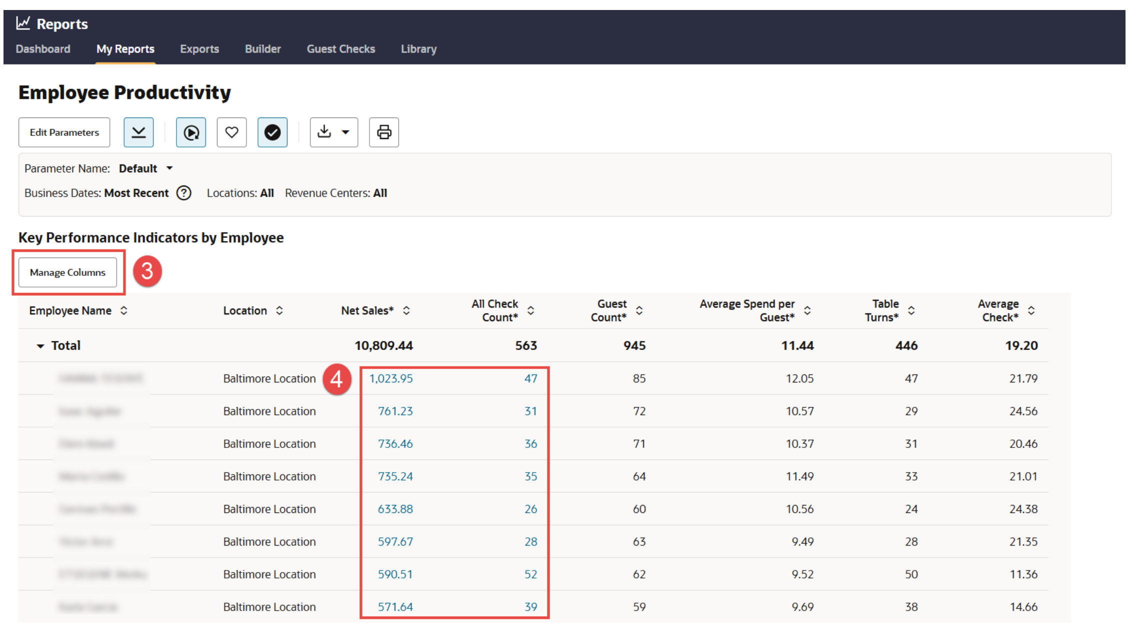
All available reports are housed in the Reporting and Analytics Library tab and you can create new reports in the Builder tab. You can easily access the reports that are most useful to you in the My Reports tab.

Features in reports are called out by number in the table and correspond to the images.

Callout Number	Element	What It's Used For
1	Toolbar	Edit parameters, show or hide report parameters, auto run reports, favorite reports, add reports to My Reports, download reports, and print reports. The toolbar appears on all reports.
2	Report component	View and interact with report components which include tables and charts. Hover over charts and more details will appear. Your permissions determine which report components are visible.

Callout Number	Element	What It’s Used For
3	Smart cell selection	Select column headers for certain reports with smart cell options.
4	Drill-downs	Hyperlinked entries drill down to more detailed reports.





2

Accessibility

Keyboard options to make selections and navigate between different screens.

Using the Tab Key

Use the Tab key to navigate through Reporting and Analytics screens. The default tab order flows from left to right and top to bottom.

Switching Between Tabs in the User Interface

Use the arrow keys to switch from one tab to another tab.

Making Multiple Selections

You can use the CTRL key and arrow keys to make multiple selections of items that are not adjacent to each other.
To select multiple items:

1. Press the CTRL key and hold it down until all selections have been made.
2. Use the up and down arrow keys to navigate to the item and then press the space bar to select or deselect the item.
3. Repeat these steps for each item to be selected or deselected.
4. Release the CTRL key to finalize the selections.

Navigating a List

- Use the F2 key to navigate into a list.
- Use the tab key to navigate within the list.
- Use the Esc key to navigate out of the list.

Selecting a Check Box

Use the space bar to select a check box.

3 Control Who Sees What

Define the privileges and access users have within each role.

Reporting and Analytics provides a flexible data access control model that lets you create a streamlined experience for users so they see only the data that is important to them. Roles support business functions within your enterprise. Every user must be assigned a role. Data access is controlled within each role of the enterprise.

> **Note**
>
> The administrator can grant data access not only to view certain screens, but can also grant further access to edit the screen.

The following table describes the data access controls:

Control	Description
Reports and Data	Use this control to: • Specify the information within reports that a role can view. • Specify the reports that appear when members of the role go to their My Reports page. • Hide reports from members of a role by defining a blocked reports list.
Privileges	Defines the actions within Reporting and Analytics members of a role can run.
Portlets	Controls access to features from earlier versions of Reporting and Analytics.
Reports Dashboard	Specifies the report dashboard tiles that appear when members of the role go to their Dashboard page. A tile contains snippets of data from a report.

Add Reports Roles

Create a role to define a person's privileges

Required system privilege: **View/Add/Edit/Delete Roles**.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, click **Roles**, and then click **Add Role**.
2. Enter the name of the role and click **Add**.
3. Click the **Role Administration** field and select roles that the current role can administer or configure.
4. Information will automatically populate in the other fields including:

- **Status**: the default setting is **Active**.
- **Record Return Maximum**: the default setting is **Standard**. This option refers to the maximum number of records that can be retrieved on reports.
- **Labor Management**: this view appears for enterprises with Labor Management and is deselected by default.
- **InMotion Mobile**: determines whether you can log into and view data in the app.

5. Click **Save and Close** or **Save**.

Define System-Level Privileges

Define and place limits on what each role can do within Reporting and Analytics.

1. In Reporting and Analytics, click the side navigation menu, click **Administration** and then click **Roles**.
2. Click the role you want to update.
3. Click **Privileges** and select system privilege options.
4. Click **Save and Close** or **Save**.

Define Access to Reports and Data

Define the type of information a role can see within reports and block specific reports from view.

You must first grant the role system privileges to reports before assigning data permissions. See the “Define System-Level Privileges” section for more details.

1. In Reporting and Analytics, click the side navigation menu, click **Administration** and then click **Roles**.
2. Click the role you want to view.
3. Click **Reports and Data**, click **Manage Data Permissions**, select the data permissions this role should have access to, and then click **Save**.

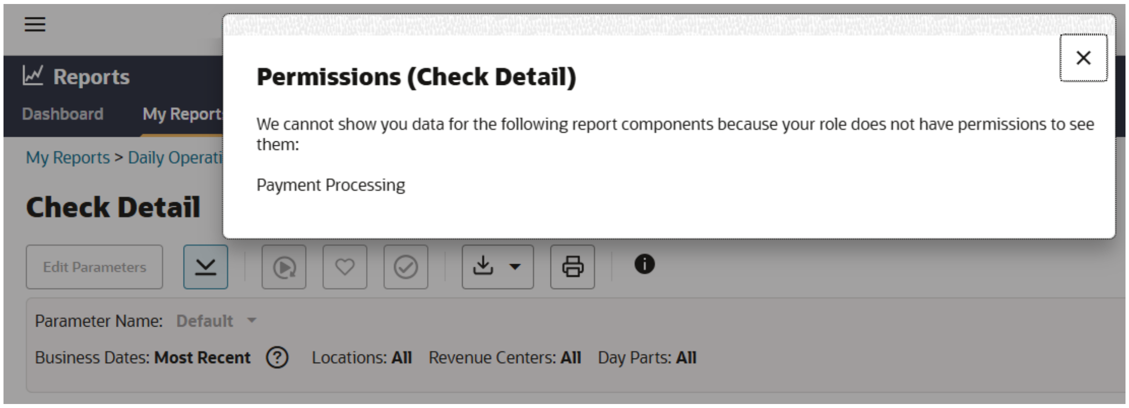
   Data permissions determine the information within a report that a role can view.
4. Click **Manage My Reports** to select reports for the My Reports tab in the reports navigation area.
5. Click **Manage Blocked Reports** and select any reports you want to block from view.

   Blocked reports will not be visible to this role, even when searching for reports in the library.

Data Permissions

You can limit the type of information each role can view within reports. Each report component, like a table or pie chart, is associated with one or more data permissions. A role must have the permissions to view that report component. For example, a Store Manager should have access to operations performance information while other people may not have the permission to view this information.

If a role does not have access to all the permissions listed on a report, you still have partial access to the report. Click the information icon at the top of the report to understand which report components are not visible due to missing data permissions. The following image shows this message in the Check Detail report.



Refer to the *Reporting and Analytics Reports Guide* for the data permissions required to view each report component.

Additional access from data permissions includes:

- Access to the Dashboard, My Reports, and Library tabs if at least one data permission is selected.
- Access to the Guest Checks tab if the Sales and Operations data permission is selected.

Simphony Inventory

A separate role determines access to Simphony Inventory and the actions you can take. This role is not activated or available until the enterprise is provisioned for Simphony Inventory.

Define Access to Portlets

A portlet contains content and functionality for earlier versions of Reporting and Analytics. For example, if you have Inventory Management, a portlet directs you to this feature. Portlets appear on the side navigation menu after they are assigned.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, and then click **Roles**.
2. Click the role you want to assign a portlet to, click **Portlets**, and then click **Assign Portlet.**
3. Select a portlet from the drop-down list.
4. Click **Assign Portlet**.

Assign a Person to a Reports Role

Required system privilege: **View/Add/Edit/Delete Roles**.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, and then click **Roles**.
2. Click the role you want to view.
3. Click **Users** and then click **Assign User**.
4. Select the person from the drop-down list, or enter the name to see more results.
5. Click **Assign**.

> **Note**
>
> You can create a new person from this page by clicking **Add User**.

Administrator Roles

There are two types of administrator roles, the Hierarchy Administrator and the Functional Administrator. They grant access to areas of Reporting and Analytics to roles and they also manage people. See the two administrator role definitions below for more details.

> **Note**
>
> When upgrading from release 9.1 to release 20.1, the role with the **Sys Admin** option selected becomes the Hierarchy Administrator. Any roles in release 9.1 with access to the Portal portlet or the Administer Roles Admin portlet, become Functional Administrators in release 20.1.

Hierarchy Administrator

The Hierarchy Administrator is assigned to one role that has full access to all roles, people, enterprise levels, and locations. They are limited to granting access only to portlets, privileges, and data permissions that they themselves have access to. The Hierarchy Administrator:

- Is only assigned to one role.
- Can access the **Roles** and the **Users** module.
- Can access all people and roles in the enterprise.
- Can assign only portlets, privileges, and data permissions that they have access to.
- Can assign any level and location.

Functional Administrator

The Functional Administrator can be assigned to roles that manage access for other roles and people. They can grant access to any portlets, privileges, and data permissions. The Functional Administrator:

- Can be assigned to multiple roles and there must be at least one.
- Can also be the Hierarchy Administrator.
- Can access the **Roles** module.

- Can grant themselves access to the **Users** module.
- Can assign any portlets, privileges, and data permissions to themselves or any other role, even the Hierarchy Administrator.
- Can assign only the levels and locations they have access to.
- Can assign other Functional Administrators.

Set the Hierarchy Administrator

Must be the current Hierarchy Administrator to reassign.

Required system privilege: **View/Add/Edit/Delete Roles**.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, click **Roles**, and then click **Assign the Hierarchy Administrator**.
2. Select the role you want to assign as the Hierarchy Administrator and then click **Save and Close**.

Set the Functional Administrator

Required system privilege: **View/Add/Edit/Delete Roles**.

Can only be assigned by a current Functional Administrator.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, and then click **Roles**.
2. Click the role you want to set as a Functional Administrator.
3. Select **Functional administrator** and then click **Save and Close** or **Save**.

Compare Roles

Required system privilege: **View/Add/Edit/Delete Roles**.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, and then click **Roles**.
2. Click **Compare Roles**.
3. Select a role from the **Role 1** and **Role 2** drop-down options.
4. Click **Compare**.

Edit Roles

Required system privilege: **View/Add/Edit/Delete Roles**.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, and then click **Roles**.
2. Click the role you want to update, make your edits, and click **Save and Close** or **Save**.

Delete Roles

Required system privileges: **View/Add/Edit/Delete Roles**.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, and then click **Roles**.
2. Select the role you want to delete.
3. Confirm that there are no people assigned to the role.
4. Click **Delete** and then click **Delete**.

4

People Management (20.1.15)

Access to People Management depends on your Oracle Cloud configuration. See the following table for usage notes for Oracle Cloud configurations.

Oracle Cloud Configuration	Usage Notes
Environment provisioned with: • Reporting and Analytics 20.1.15 • Simphony 19.6 • Frontline Manager 19.6.0 • Simphony Configuration and Content API 23.3.1	You can use People Management in Reporting and Analytics to perform tasks such as add people to the system, assign them a role, grant them access to other Oracle Restaurants products, and specify point of sale operational settings previously specified in the Simphony Enterprise Management Console (EMC). If Labor Management is enabled, you can specify employment details through the Labor Management integration with Reporting and Analytics instead of using the legacy Labor Management portlet. **Note** Use the links at the bottom of this page to access People Management procedures.

Oracle Cloud Configuration	Usage Notes
Environment provisioned with: • Reporting and Analytics 20.1.14 • Simphony 19.6	You cannot use Reporting and Analytics People Management. If Labor Management is enabled, use the legacy HR portlet to specify employment details. If Labor Management is not enabled, continue to use the Simphony EMC to manage employees. **Note** Continue to use the Reporting and Analytics procedures in this guide at User Management (20.1.14). See the *Oracle Restaurants Labor Management User Guide* and *Oracle Simphony Configuration Guide* for more information.

Preparing for People Management

People Management uses the enterprise level defined in Reporting and Analytics to determine a person's access to locations. A person cannot perform transactions or make configuration changes in locations that are not within their assigned enterprise level's scope. Before using People Management, reconcile user accounts between the Simphony Enterprise Management Console (EMC) and Reporting and Analytics. Then, review your organizational hierarchy in Reporting and Analytics because some properties that were previously set up in the Simphony EMC may not be assigned to a level in Reporting and Analytics. All locations in Reporting and Analytics need to be assigned to a level. Also, there can only be one level with **No Parent** assigned.

Reconcile User Accounts

In the Simphony EMC, go to the Employee Maintenance tab for your enterprise. Compare the values in the **User Name** column with the user records in Reporting and Analytics. To create a single person record in People Management, the user names and email addresses in the EMC and Reporting and Analytics must match. If there is a mismatch between the two systems, People Management generates a duplicate person record. A person can resolve a duplicate record the first time they sign in by confirming account details or changing their user name. If a person's account does not have an email address, the person is prompted to enter one when signing in.

Review Organizational Hierarchy

In Reporting and Analytics, click **Configuration**, click **Portal Admin**, click **Organizational Structure**, click **Relationships**, and then filter by parent. If there is only one location with a value of **No Parent**, no action is required. If there is more than one location with a value of **No Parent**, use the following table as a guide to make organizational hierarchy changes:

Scenario	Description	Corrective Actions
Locations not assigned to a level	• Live locations are assigned to a level. • Live locations are in a hierarchy with only one top level. • One or multiple “test”, “lab”, or “closed” locations are not part of the hierarchy.	• Create a new level – this level will become the new top level. • Assign the previous top level to the new level. • Assign all unassigned locations to the new level. As a result, existing people will not see the newly assigned locations in filters or on reports and only people with the Hierarchy Admin role will see those locations and people assigned to them.
Live locations are not assigned to a level	• Some live locations are assigned to a level. • Some live locations are in a hierarchy with only one top level. • One or multiple live locations are not part of the hierarchy.	• Assign the locations with **No Parent** to an appropriate level. • If needed, create a new level and assign the locations to the new level. • Keep in mind that people assigned to an existing organization level get access to the sales of the locations once they are assigned to an existing level.
Orphaned levels with **No Pare nt** and no locations assigned	• Live locations are assigned to a level. • Live locations are in a hierarchy with only one top level. • One or multiple “test”, “lab”, or “closed” locations are not part of the hierarchy.	• Levels with no locations assigned and **No Parent** have no functionality and can be deleted. • People assigned to those levels need to be re-assigned to another location or level.
No common overarching corpo rate level	• Multiple individual hierarchies exist. • Multiple levels have locations assigned, but **No Parent** level. • For example, an individual franchisee, region, or a separate hierarchy for test locations.	• Create a new level – this level becomes the new top level. • Assign all the previous top levels to the new level. • As a result, existing people will not see the newly assigned locations in filters or on reports and only people with the Hierarchy Admin role will see those locations assigned to them.

Add a Person

Required system privilege: **View/Add/Edit People**.

1. In Reporting and Analytics, click the side navigation menu, click **People**, and then click **Add Person**.
2. Specify basic information to uniquely identify the person in the system, such as name, user name, and email address.
3. Select the **Enterprise Role** and **Enterprise Level** from the drop-down lists.
4. Click **Save and Continue**.

The page dynamically refreshes to show tabs that you use to continue adding the person to the system. The tabs that appear depend on your enterprise's configuration in the Oracle Cloud. The following table describes the tabs:

Tab	Description
Employment	Reporting and Analytics shows this tab if your enterprise is configured to use Labor Management. Starting with Reporting and Analytics release 20.1.15, you can specify labor settings through the Labor Management integration with Reporting and Analytics instead of using the legacy Labor Management portlet. See Specifying Employment Details.
Application Settings	If your Oracle Cloud environment is provisioned for Oracle Restaurants Payment Service and Oracle Simphony Inventory, use this tab to grant access to the solutions and to grant access to reporting data in Reporting and Analytics. See Grant Access to Solutions and Reporting Data.
Point of Sale	Use this tab to grant access to point of sale operations. Examples include restricting access to workstation operations through employee levels and groups and restricting access to Simphony Enterprise Management Console (EMC) operations. See Grant Access to Point of Sale Operations.

Specify Employment Details

Required system privilege: **View/add/edit people** and Labor Management is enabled for your enterprise.

1. In Reporting and Analytics, click the side navigation menu and then click **People**.
2. Search for the person and then click the person.
3. On the **Employment** tab, click **Add Employment Information**
4. On the **General** page, enter basic employee information.

   The settings for your organization determine the information you enter. The following table provides tips on completing the form:

Field	Description
SSN	Employee's social security number.

Field	Description
Confirm SSN	Employee's social security number.
Date of Birth	Employee's date of birth.
External Payroll ID	Payroll ID generated from a third-party payroll system. Keep the following guidelines in mind when entering the ID: • It must be unique across the entire organization • It must be a numeric value in the range of 1 - 999,999,999 • It can't be created with a null value • You can't change the value after it's assigned See Configuring External Payroll ID in the *Oracle Restaurants Labor Management User Guide* for more details.
Language	Employee's language.
OS User Name	Employee's Microsoft Windows account user name for using POS devices on the Restaurant Enterprise Series (RES) system.
OS Domain Name	Microsoft Windows domain name for the RES POS system.
Exclude from EU Directives	Indicates if European Union directives do not apply to the employee. This setting is valid only for systems in member states of the European Union.
Gender	Employee's gender.
Minor	Select if the employee is a minor.
OT Exempt	Select if the employee does not qualify for overtime work and pay.
Allow Sub Minimum Wage	Enable if the employee is eligible for a pay rate below the minimum wage standard. For example, enable the setting for an employee who receives tips.
Certificate Number	Age certificate number for employees who are minors.
Age Certificate Expiration Date	Date of age certificate expiration.
Work Permit Number	Work permit number.
Work Permit Expiration Date	Date of work permit expiration.
Ethnicity	Employee's ethnicity.

5. On the **Contact Information** page, enter contact information.

   The following table provides definitions for some of the fields:

Field	Description
In City Limits	Employee address is within the city limits of the store location.
Lives on Property	Employee address is where the employee resides.

Field	Description
Unlisted	Excludes the employee phone number from the Employee Phone List report.
Opt Out	Labor Management does not send email notifications to the employee. For example, Labor Management does not send a notification to the employee when a manager approves a schedule.

6. On the **I9 Information** page, enter employment eligibility verification information.
7. On the **Exemptions** page, enter tax exemption information.
8. On the **Payroll Information** page, enter direct deposit information.

   To specify a flat or percentage amount to be deposited to a bank account, select the **Amount Type** and then enter the respective **Amount**. For example, if an employee provides two bank accounts and wants a 30 percent and 70 percent split, you can select **Percentage** and enter `30` for the first bank and then select **Percentage** and enter `70` for the second bank.

   If the total amount paid through direct deposit does not constitute the entirety of the paycheck, select **Balance**. For example, if an employee provides a bank account for direct deposit but only wants 70 percent of their paycheck deposited to the bank account, select this option.
9. On the **Status** page, enter employee status information.
10. On the **Location Configuration** page, enter job, pay rate, and point of sale account information.

    The following table provides definitions for some of the fields:

Field	Description
Is Salaried	Indicates the employee receives a salary. Enter a monthly or an annual salary amount.
Add Job Rate	Adds a job or pay rate. Enter job and pay rate details, and then click **Update List**. **Note** The Job Code Names are filtered to the job codes applicable in the selected location. To see all job codes, select **Show All Job Codes**. Do not assign a job code linked to a revenue center master that doesn't exist in the selected location.
Skill Level	Employee proficiency at fulfilling job requirements.
Primary Job	Indicates the selected job is the employee’s primary job at the location.
Exclude from Staff Requirements	Labor Management does not include the employee when calculating staffing requirements.

Field	Description
Exclude from Scheduler	Employee and corresponding job do not appear in the editor when adjusting schedules.

11. On the **Veteran Status** page, enter information for employees who served in the military.
12. Click **Save**.

Grant Access to Solutions and Reporting Data

1. On the **Application Settings** tab, grant access to other Oracle Restaurants solutions.

   If your enterprise is provisioned for Oracle Restaurants Payment Service, select the appropriate role from the **Payment Role** drop-down list. You must have the **Add/edit payment** role in order to see this option.

   If your enterprise is provisioned for Simphony Inventory, select the appropriate role from the **Simphony Inventory Role** drop-down list. You must have a Simphony Inventory role with administrative permissions in order to see this option.

   If your enterprise is not provisioned for a solution, the tab does not display the drop-down list for that solution.
2. From the **Revenue Center Filter** drop-down list, select the revenue centers for which the person can view reporting data.

   Consider the person's role within the enterprise when selecting revenue centers. For example, if you are adding a store manager, select only the revenue centers at the location where the manager works.
3. Click **Update**.

Grant Access to Point of Sale Operations

Required system privilege: **View/add/edit people** and a POS role with Employee Maintenance access.

If Labor Management is enabled, you must complete employee details before completing the following steps. The **Point of Sale** tab displays an error message if the employee details need to be completed. See Specify Employment Details for more information.

1. In Reporting and Analytics, click the side navigation menu, and then click **People**.
2. Search for the person and then click the person.
3. Click **Point of Sale**.
4. Click the **Settings** page and then complete the following fields:
   a. Enter the **POS object number**. The field displays the next available POS object number by default for the employee. You can modify the number but once it is configured, it can't be changed.
   b. Select the **POS language**.
   c. Select the **Employee level**.

The employee level is a layer of security that gives an employee access to some employee records but not others. This field allows a one-digit entry, where 0 gives the most access and 9 gives the least access. For example, an employee with level 2 access can see all employees with levels 3 through 9 but can't see employees with levels 0 through 2 (including themselves). Level 0 should be reserved for System Administrators while a level like 8 or 9 to be used for cashiers or servers.

d. Enter the **Employee group**.

   The employee group is another level of security that controls employee access to other employee records. This field is more restrictive than the **Employee level** field, which is more commonly used. This field allows a three-digit entry. If you set the employee group number to 0, then they can view all other employee records. Any other number restricts the employee to view only employees with that same number as their employee group. For example, and employee with a group number of 17 can only view other employees from group number 17.

e. Enter the POS client details. Only some fields may appear depending on your configuration:

   - **Check name**: Enter the employee name to appear on guest checks (for example, Sally S).
   - **POS sign-in number**: Enter the employee sign-in number.
   - **Alternate sign-in number**: Enter a number to use instead of the POS sign-in number when signing into the workstation.

     > **Note**
     >
     > The system will not allow the following values to be used as a POS sign-in number and Alternate sign-in number:
     >
     > – 8700
     >
     > – 9700
     >
     > – 1234
     >
     > – 2211
     >
     > – 1212
     >
     > – 1550

   - **PIN**: Enter a PIN.

f. Select the **Locale**, click **Set EMC Password**, enter a new password, and then click **Submit**.

g. **Payroll ID**: If your enterprise is not configured to use Labor Management, enter the Payroll ID generated from a third-party payroll system. Keep the following guidelines in mind when entering the ID:

   - It must be unique across the entire organization
   - It must be a numeric value in the range of 1 - 999,999,999
   - It can't be created with a null value
   - You can't change the value after it's assigned

5. If Labor Management enabled, move on to Step 6. If it is not enabled, click the **Locations** page and then complete the following fields:

   a. Click **Assign Locations**.
   b. Select a location and the revenue centers they should have access to and then click **Assign**.
   c. After the locations and revenue centers are added, the **Employee Class** field is visible. Select the **Employee Class** for each location.
   d. To view revenue center advanced settings, click the actions menu ••• and then click **Revenue Center Advanced Settings**. You can then edit the **Cashier**, **Cash Drawer**, **Table Count**, **Table Management Button Color**, and **Server Efficiency** fields.
6. Click the **Roles** page and then complete the following fields:
   a. Click **Assign POS Roles**.
   b. Select the role or roles they should have access to and then click **Assign**.

      You can click **Expand Entities** to view all locations and revenue centers or click **Zone** to view roles by regional zone.
7. Click the **Visibility** page and then click **Assign Visibility**.
   - Make your selections and then click **Assign**.

     You can view options by **Enterprise**, **Location**, or **Zones**.
8. Click **Update**.

Copying a Person

You can save time when adding a new person by copying an existing person. The process is simplified, because only personal details need to be entered and non-personal roles or privileges are copied into the new person.

> **Note**
>
> - All non-personal information, permissions, privileges, roles, and other assignments are copied from the existing person.
> - Personal information as well as mandatory fields in the Labor Management Labor Template need to be completed when creating the new person.
> - If Labor Management is enabled, only active job rates are copied.
> - The person making the copy must have the same access or higher than the person they are copying.

1. In Reporting and Analytics, click the side navigation menu, and then click **People**.
2. Search for the person and then either:
   - Click the three dots ••• at the end of the row and then click **Copy Person**.
   - Click the person you want to copy, click **More Actions**, and then select **Copy Person.**
3. Enter the new employee details and then click **Save and Continue**.

After the new person is created, you can make additional adjustments as needed.

Editing a Person

Required system privilege: **View/Add/Edit People** and if editing an email you need **Edit email address**.

In general, you can edit another person if you have the same privileges or higher. You must also have a point of sale role if you want to edit point of sale details.

1. In Reporting and Analytics, click the side navigation menu, and then click **People**.
2. Search for the person and then click the person.
3. Make your changes and then click **Update**.

Searching for and Viewing People

Required system privilege: **View/Add/Edit People** or **View People**.

You can view people that have:

- An enterprise role that is part of your role administration.
- An enterprise level that is the same or lower than your enterprise level.

1. In Reporting and Analytics, click the side navigation menu, and then click **People**.
2. By default, all active people are displayed. You can refine your search by entering a name or user name of the person. To view inactive people, update the **Status** filter. You can also narrow your search by **Enterprise Role** or **Enterprise Level**. Additional filters are available if you select **Application Access**.
   - The **Application Access** filter includes **Point of Sale** and **Payment** options (if available for the enterprise).
     – If you select either **Point of Sale** or **Payment**, then the search results include people who have access to Point of Sale functionality or to Payment Cloud Service through their assigned roles.
     – If you select both **Point of Sale** and **Payment**, then the search results only show people who have access to both. If a person can only access one of them, they do not appear in the results.
   - Click **More filters** to access additional filter options to narrow the search further.
     – If you select **Point of Sale** application access you can filter by employee role, POS location, or POS object number.
       * Once a POS location is selected, the search can be further narrowed down by POS revenue center or employee class.
     – If you select **Payment** application access you can filter by payment role.
3. Click **Search** to view the results.

Deactivating a Person

Required system privilege: **View/Add/Edit People**.

The status of a person is active or inactive in People Management. For example, a seasonal worker can have an active status while working in the summer and have an inactive status for rest of the year. If Labor Management is enabled, a deactivated a person is then automatically terminated in Labor Management with the effective date as today. When an active person is terminated in Labor Management they are automatically deactivated in People Management. An inactive or terminated person loses access to all applications. If a person is terminated, see Terminate a Person for more details.

1. In Reporting and Analytics, click the side navigation menu, and then click **People**.
2. Search for the person and then click the person.
3. Click **More Actions** and then click **Deactivate**.
4. Click **Deactivate**.

Activating a Person

Required system privilege: **View/Add/Edit People** and **Unassign any role**.

The status of a person is active or inactive. For example, a seasonal worker can have an active status while working in the summer and have an inactive status for rest of the year.

1. In Reporting and Analytics, click the side navigation menu, and then click **People**.
2. Search for the person and then click the person.
3. Click **Activate Person** and then click **Activate**.

Terminating a Person

Required system privilege: **View/Add/Edit People** and access to Labor Management.

If a person leaves your organization, you can change their hire status to terminated. If there is a seasonal worker, see Deactivating a Person for more details.

1. In Reporting and Analytics, click the side navigation menu, and then click **People**.
2. Search for the person and then click the person.
3. In the **Employment** page, click **Manage Employment Information**.
4. Click the **Status** page.
5. In the **Hire Status** field, click **Terminated**.
6. Click **Save**.

Rehiring a Person

Required system privilege: **View/Add/Edit People** and access to Labor Management.

1. In Reporting and Analytics, click the side navigation menu, and then click **People**.
2. Reactivate the person. See Activating a Person for more details.
3. Click **Employment**, click **Manage Employment Information**, and then click **Rehire**.
4. Click **Status**, set the **Hire Date**, and then select the **Hire Status**.
5. Click **Save**.

Unassigning a Role

Required system privilege: **View/Add/Edit People** or **Unassign any role**.

The **Unassign any role** privilege lets you unassign a role from someone who has more privileges than you, but you are not able to reassign the role. For example, a Human Resources employee may use this privilege to manage other employees who have higher level privileges than they have.

> **Note**
>
> If you are unassigning the last person in an administrative role for any application, make sure that you assign the role to another person first. If you unassign the last person with a role, a message appears asking you to acknowledge this and you must contact Oracle Support in the future to assign the role to another user.

1. In Reporting and Analytics, click the side navigation menu, and then click **People**.
2. Search for the person and then click the person.
3. Depending on the role you want to unassign, follow one of these options:
   - For a point of sale role, click **Point of Sale**, click **Unassign Role**, select the message, and then click **Unassign**.
   - For a Payment role, click **Application Settings**, in the **Payment Role** field select **No Role**.
   - For a Simphony Inventory role, click **Application Settings**, in the **Simphony Inventory Role** field select **No Role**.
4. Click **Update**.

People Audit

Required system privilege: **View/add/edit people** and **Download people audit details**.

The audit includes all active and inactive people you are able to view with your permissions. The audit helps you determine if they have the appropriate permissions or if they have been properly deactivated. You can download the audit list for review.

1. In Reporting and Analytics, click the side navigation menu, and then click **People**.
2. Click **More Actions** and then click **People Audit Details**.

3. Click **Generate Details**.

   Depending on the number of people in the audit, this process can take some time. You can close the dialog and continue to use the application. Once the file has been generated, you will receive a notification in the application. To view the file, navigate to **People**, click **More Actions**, and then click **People Audit Details** where you can download the file. This file is retained for 7 days.

4. Click **Close**.

Passwords and Locked Accounts

Lists the criteria for passwords and includes locked account details.

Password Requirements

Passwords must contain 12 to 128 characters and must have at least:

- One lowercase character
- One uppercase character
- One numeric character
- One symbolic character

  Passwords can include the following symbols: ! " # $ % & ' ( ) * + , - . / : ; < = > ? @ [\ ] ^ _ ` | ~

Passwords must **not** include:

- Whitespace characters
- First name
- Last name
- User name
- Restricted words (see the note below for more details)

> **Note**
>
> - If you reset your password and enter a new one, then you cannot use any of your last six passwords.
> - All criteria are validated while you type, with the exception of not containing restricted words and not using your last six passwords. These two criteria are validated server-side and must be updated and saved again if that fails.
> - The new password is validated against a list of restricted words, which include common passwords or known passwords. The list contains words such as `administrator`, `1234`, `password`, `soccer`, `football`, `qwerty`, and also variations with replacement characters like @, !, 0, $.
> - If you request a password reset from the **Can’t sign in?** page more than 10 times and then you don’t actually reset the password, the ability to recover your password is locked for 30 minutes. A System Administrator can still reset the password for you.
> - Depending on the configuration of your enterprise, passwords expire after either 60 or 90 days.

Locked Account

If you enter the incorrect password six times, then your account will be locked. You can either wait 30 minutes and try again or click **Can't sign in?** from the Oracle Simphony sign in screen to reset your password.

Resetting Another User’s Password

Required system privilege:

1. In Reporting and Analytics, click the side navigation menu, and then click **People**.
2. Search for the person, click the actions menu •••, click **Reset Password**, and then click **Reset**.

Reset Your Password

1. In Reporting and Analytics, click your name at the top of the page and then click **Change Password**.
2. Enter your current password, then enter your new password, and then confirm your new password.
3. Click **Save and Close**.

Data Privacy

De-identify people and download personal data reports.

People Management stores personally identifiable information such as names, email addresses, and sign-in date and time stamps. Reporting and Analytics provides tools that let you quickly address user privacy requests. For example, you can de-identity users. When you de-identify a user, the system overwrites their information with generic or empty values so activity cannot be traced back to the user.

Data Privacy Settings

Required system privilege: **View/Edit Data Privacy Settings**.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, click **System**, and then click **General**.
2. Click **Data Privacy**.
3. In the **Personal Data Retention Period (Days)** field, enter the number of days that must pass for an inactive user to be eligible for manual de-identification.
4. If you want an inactive person to be automatically de-identified, select **Enabled**, and then enter the number of days since the person’s last sign-in before they will be automatically de-identified.
5. Click **Save and Close**.

De-identifying a Person

Required system privilege: **View/Add/Edit People** and **De-identify People, View/Download log**.

If you want to permanently remove the person’s record, you can de-identify them. Once a person has been de-identified, they can’t be recovered.

The person must be inactive before they can be de-identified.

1. In Reporting and Analytics, click the side navigation menu, and then click **People**.
2. Search for the person and then click the person.
3. Click **More Actions** and then click **De-identify**.
4. Click **De-identify** and then click **OK**.

View Logs and Reports

Required system privilege: **View/add/edit people** and **De-identify People, View/Download log**.

Reporting and Analytics lets administrators review any data privacy operations performed on people in the Enterprise.

1. In Reporting and Analytics, click the side navigation menu, and then click **People**.
2. Click **More Actions** and then click **Data Privacy Log**.

On the **Data Privacy Log** page, enter criteria (for example, the data subject name and the action performed) and then click **Search**.

3. Click **Close**.

Download Personal Data Report

Required system privilege: **View/add/edit people** and **View/Download log**.

The Personal Data Report lets the administrator collate all personal data related to a user and download it in a machine-readable format.

1. In Reporting and Analytics, click the side navigation menu, and then click **People**.
2. Search for the person and then click the person.
3. Click **More Actions** and then click **Download Personal Data Report**.

People Audit

Required system privilege: **View/add/edit people** and **Download people audit details**.

The audit includes all active and inactive people you are able to view with your permissions. The audit helps you determine if they have the appropriate permissions or if they have been properly deactivated. You can download the audit list for review.

1. In Reporting and Analytics, click the side navigation menu, and then click **People**.
2. Click **More Actions** and then click **People Audit Details**.
3. Click **Generate Details**.

   Depending on the number of people in the audit, this process can take some time. You can close the dialog and continue to use the application. Once the file has been generated, you will receive a notification in the application. To view the file, navigate to **People**, click **More Actions**, and then click **People Audit Details** where you can download the file. This file is retained for 7 days.
4. Click **Close**.

User Management (20.1.14)

For users that have not yet upgraded to release 20.1.15, follow the instructions in this section of the chapter.

As a Reporting and Analytics administrator, you can manage users in your enterprise and do the following:

Add Users

Required system privilege: **View/Add/Edit Users**.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, and then click **Users**.
   - If you enabled Inventory Management after the 20.1 release of Reporting and Analytics, you must sync users. Click **Sync Inventory Users** and then click **Sync**. You can then follow the steps below to add new users to Reporting and Analytics.
2. Click **Add User**.
3. Enter the user's name, a unique user name, and email.
4. Select language, country, and time zone options from the drop-down lists.
5. Select a **Role** for the user and their **Enterprise Level or Location**.

   Note

   - The enterprise must be provisioned for Simphony Inventory to add that role to the user.
   - If you unassign the Simphony Inventory role from a user, this user must be made inactive in Simphony Inventory.
   - If you deactivate a user with a Simphony Inventory role, the user must be made inactive in Simphony Inventory.
6. To select a revenue center option, click **All** to give a user access to all revenue centers or click **Selected** to chose revenue centers.
7. Either click **Add and Add Another** or click **Add and Close**. Reporting and Analytics sends a welcome email to the user with a link to create a password. This link is valid for 60 minutes.
8. If you are prompted with the error message **Inventory sync of user has failed. Contact your system administrator for further information**, then you can manually sync users from Inventory Management. Click **Sync Inventory Users** and then click **Sync**.

View Users

Required system privilege: **View/Add/Edit Users**.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, and then click **Users**.
2. Type or select search criteria and then click **Search** to filter the search results.

   For example, to view inactive users for an enterprise role named Enterprise Manager, select `Enterprise Manager` in the **Role** field and then select **Inactive**.

   To search for a specific user, enter their name or system user name and then click **Search**.

Edit Users

Required system privilege: **View/Add/Edit Users**.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, and then click **Users**.
2. Search for the user and select the user.
3. Edit the user information and click **Save and Close** or **Save**.

Deactivate or Activate a User

The status of a user is active or inactive. For example, a seasonal worker can have an active status while working in the summer and have an inactive status for rest of the year.

Required system privilege: **View/Add/Edit Users**.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, and then click **Users**.
2. Search for the user and select the user.
3. Click **Inactive** to deactivate the user or click **Active** to reinstate the user.
4. Click **Save and Close** or **Save**.

Passwords and Locked Accounts

Lists the criteria for passwords and includes locked account details.

Password Requirements

Passwords must contain 8 to 20 characters and must have at least:

- One lowercase character
- One uppercase character
- One numeric character
- One symbolic character

  Passwords can include the following symbols: ! " # $ % & ' ( ) * + , - . / : ; < = > ? @ [\ ] ^ _ ` | ~

> **Note**
>
> - If you reset your password and enter a new one, then you cannot use any of your last four passwords.
> - If you request a password reset from the **Can't sign in?** page more than 10 times and then you don't actually reset the password, the ability to recover your password is locked for 30 minutes. A System Administrator can still reset the password for you.
> - Depending on the configuration of your enterprise, passwords expire after either 60 or 90 days.

Locked Account

If you enter the incorrect password six times, then your account will be locked. You can either wait 30 minutes and try again or click **Can't sign in?** from the Oracle Simphony sign in screen to reset your password.

Reset Another User's Password

Required system privilege: **View/Add/Edit Users**.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, and then click **Users**.
2. Search for the user and select the user.
3. Click **Reset Password** and then click **Reset Password**.

Reset Your Password

1. In Reporting and Analytics, click your name at the top of the page and then click **Change Password**.
2. Enter your current password, then enter your new password, and then confirm your new password.
3. Click **Save and Close**.

Data Privacy

De-identify people and download personal data reports.

People Management stores personally identifiable information such as names, email addresses, and sign-in date and time stamps. Reporting and Analytics provides tools that let you quickly address user privacy requests. For example, you can de-identity users. When you de-identify a user, the system overwrites their information with generic or empty values so activity cannot be traced back to the user.

De-identifying Users

When you de-identify a user, Reporting and Analytics replaces the user's personal information with generic or empty values.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, and then click **System**.
2. Click **Data Privacy**.
3. Search for the user and then select the user record in the results list.
4. Click **De-identify**, review the confirmation details on the **De-identify** page, and then click **De-identify and Close**.

Viewing Logs and Reports

Reporting and Analytics lets data collectors download personal data reports for data subjects.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, and then click **System**.
2. To view a list of data privacy actions performed for a data subject or unique identifier, click **Data Privacy Log**.

   On the **Data Privacy Log** page, enter criteria (for example, the data subject name and the action performed) and then click **Search**.
3. To download a personal data report, enter search criteria and then click **Download Personal Data Report**.

   You can download the report as a Comma Separated Value (CSV) file, JSON file, or XML file.
4. To download a list of de-identification activity, click **Download De-Identification Log (Last 31 Days)**.

5 API Accounts Overview

Connect to Simphony web services.

API accounts are required to connect to Simphony web services. The following APIs are available:

- Business Intelligence API
- Configuration and Content API
- Transactions Services Generation 2 API

Generally, each API account type has the following information:

Details	Description
Type	Select the type of API account. Options include **Simphony Transaction Services**, **Business Intelligence API**, or **Content and Configuration API**.
Status	Only active accounts can be used to connect to the API. Set an account to inactive if it is no longer used.
Account details	This includes a unique account name and the email address of the person who is responsible for and manages the account. The welcome email and password reset emails are sent to this address.
Connection details	Includes information that is required to authorize and authenticate the API account and make API calls. For existing accounts, you can click **Send Details** to receive an email that includes the account and connection details.
Authorization scope	Depending on the API account type, choose the authorization scope for the account. For example, which locations the account is allowed to access.
Additional options or permissions	Depending on the API account type, additional options or permissions can be configured.
Redirect URL	(Optional) Redirect URLs are part of the OAuth flow. After an application is authorized, the authorization server sends the user to this redirect URL location. It is important to add the redirect URL so that the sensitive information included in the redirect URL only goes to the location you specify.

After adding a new account, the account owner receives a welcome email containing the relevant connection information as well as a link to set the password for the account. This is required for the initial account authentication.

> **Note**
>
> In most cases, APIs require a separate cloud subscription. Contact your sales representative to learn more.

Granting Permission to Administer API Accounts

Understand role privileges required to administer API accounts.

An enterprise role must have the appropriate permissions to administer API accounts.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, click **Roles**, and then select the role you want to grant the access to administer API accounts. Alternatively, you can create a new role.
2. Within the role configuration screen, select **Privileges**, click **API Accounts**, and then select which type of API accounts you want to allow the users in the role to administer.

Adding a Business Intelligence API Account

Understand how to add an API account for the Business Intelligence API and the configuration options.

You must have the **Manage API Accounts** privilege to add API accounts.

The Simphony Business Intelligence API lets you query the Reporting and Analytics database on demand for transactional, operational, and kitchen data.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, click **System**, click **API Accounts**, and then click **Add API Account**.
2. Specify account details:
   - **Type** - select **Business Intelligence API**.
   - **Account name** - enter a unique account name. Click to copy the value to your clipboard.

     > **Note**
     >
     > API accounts can't be used to sign in to Reporting and Analytics. An **Invalid credentials** error message is displayed.

   - **Email** - enter the account owner's email address. The welcome email and password reset email are sent to this address.
   - **Connection Details** - displays the **Enterprise Short Name**, **Authentication Server**, and **Application Server** which are needed to connect to the API. The **Client ID** is generated when a new account is created and is also needed to connect to the API. Click to copy the individual values to your clipboard.
   - **Add Redirect URL** (Optional) - redirect URLs are part of the OAuth flow. After an application is authorized, the authorization server redirects the user to this redirect URL location. It is important to add the redirect URL so that the sensitive information included in the redirect URL only goes to the location you specify. The redirect URLs are used in:

  - Authorize endpoint - when the OAuth flow is started using the `/authorize` endpoint, it directs the caller to the service's authorization endpoint. Several parameters are included in the request, including a redirect URL. The server validates this redirect URL to confirm that it is a URL added as a redirect URL for this account.
  - Token endpoint – the request to the `/token` endpoint includes a redirect URL and the authorization code.

  Click **Add Redirect URL**, enter the URL, and then click **Add**.

- **Location Authorization Scope** - select **Level** or **Location**.
  - **Level** - lets you choose an organizational level. Select a level to grant access to all locations underneath that level in the organizational hierarchy. That is dynamically updated whenever locations are added or removed from the hierarchy.
  - **Location** - lets you choose one or more individual locations. The list is not dynamically updated whenever a new location is added to the system. Use this option if a partner or integrator needs access to specific locations and if assigning them to a level would grant access to more locations than desired.
- **Data Access Permissions** - the following table describes permissions for totals and point of sale definitions. Assigning any one of the permissions to an API account also grants the API account access to all the point of sale definitions.

Data Access Permission	Grants Access to
Sales and Operations	All the operational daily totals, guest checks, non-sale transactions, journal log, and control totals.
Kitchen Performance	Kitchen display system's performance details.
Cash Management	Cash management and cash management adjustment details.
Employee Performance	The person’s daily totals.
Labor General	Job code daily totals and time card details.
Fiscal	Fiscal invoice data, totals, and invoice control data.
Extensibility	Guest check extensibility data.
Employee Time Card Details and Pay Rates	Time card details.

  The following table describes permissions for definitions only.

Data Access Permission	Grants Access to
Point-of-sale definitions	All point of sale definitions.
Personal Identifiable Information	Definitions with personal identifiable information.

3. Click **Add**.
4. A unique **Client ID** value is generated for the API account. Use the ID to authenticate the API account before making API calls. You can retrieve an ID for an account by searching for the account on the API Accounts page and then clicking the account.

   The owner of the API account receives a welcome email with instructions on how to set the password for the account.

> **Note**
>
> If you need required account and connection information, click **Send Details** after adding the account. An email is sent to the account owner with the details.

Adding a Simphony Transaction Services API Account

Understand how to add an API account for the Simphony Transaction Services API and the configuration options.

You must have the **Manage API Accounts** privilege to add API accounts.

The Simphony Transaction Services API lets you create and manage checks within a revenue center.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, click **System**, click **API Accounts**, and then click **Add API Account**.
2. Specify account details:
   - **Type** - select **Simphony Transaction Services**.
   - **Account name** - enter a unique account name. Click ⧉ to copy the value to your clipboard.

     > **Note**
     >
     > API accounts can't be used to sign in to Reporting and Analytics. An **Invalid credentials** error message is displayed.

   - **Email** - enter the account owner's email address. The welcome email and password reset email are sent to this address.
   - **Connection Details** - displays the **Enterprise Short Name**, **Authentication Server**, and **Application Server** which are needed to connect to the API. The **Client ID** is generated when a new account is created and is also needed to connect to the API. Click ⧉ to copy the individual values to your clipboard.
   - **Add Redirect URL** (Optional) - redirect URLs are part of the OAuth flow. After an application is authorized, the authorization server redirects the user to this redirect URL location. It is important to add the redirect URL so that the sensitive information included in the redirect URL only goes to the location you specify. The redirect URLs are used in:
     – Authorize endpoint - when the OAuth flow is started using the `/authorize` endpoint, it directs the caller to the service's authorization endpoint. Several parameters are included in the request, including a redirect URL. The server validates this redirect URL to confirm that it is a URL added as a redirect URL for this account.
     – Token endpoint – the request to the `/token` endpoint includes a redirect URL and the authorization code.

     Click **Add Redirect URL**, enter the URL, and then click **Add**.
   - **Location Authorization Scope -** select an authorization scope as follows:

- Select **All** to grant the API account access to the entire enterprise, including all levels and locations.
- Select **Selected** and then click **Choose Locations** to grant the API account access to specific levels or locations.
  - Click **Hierarchy** to grant access to an entire level of locations.
  - Click **Locations** to grant access to individual locations.

- **Client Scope** - select an API scope as follows:
  - **BOTH**: both location and cloud-based APIs.
  - **LOCAL**: location-based APIs.
  - **CLOUD**: cloud-based APIs.

3. Click **Add**.
4. A unique **Client ID** value is generated for the API account. Use the ID to authenticate the API account before making API calls. You can retrieve an ID for an account by searching for the account on the API Accounts page and then clicking the account.

   The owner of the API account receives a welcome email with instructions on how to set the password for the account.

> **Note**
>
> If you need required account and connection information, click **Send Details** after adding the account. An email is sent to the account owner with the details.

Adding a Content and Configuration API Account

Understand how to add an API account for the Simphony Content and Configuration API and the configuration options.

You must have the **Manage API Accounts** privilege to add API accounts.

The Configuration and Content API gives you access to the Simphony Point of Sale configuration. The API uses the REST POST method to quickly read, update, and delete parameters and settings in areas such as menu items, discounts, locations, and service charges.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, click **System**, click **API Accounts**, and then click **Add API Account**.
2. Specify account details:
   - **Type** - select **Content and Configuration API**.
   - **Account name** - enter a unique account name. Click ⧉ to copy the value to your clipboard.

> **Note**
>
> API accounts can't be used to sign in to Reporting and Analytics. An **Invalid credentials** error message is displayed.

- **Email** - enter the account owner's email address. The welcome email and password reset email are sent to this address.
- **Connection Details** - displays the **Enterprise Short Name**, **Authentication Server**, and **Application Server** which are needed to connect to the API. The **Client ID** is generated when a new account is created and is also needed to connect to the API.

  Click ⧉ to copy the individual values to your clipboard.
- **Add Redirect URL** (optional) - redirect URLs are part of the OAuth flow. After an application is authorized, the authorization server redirects the user to this redirect URL location. It is important to add the redirect URL so that the sensitive information included in the redirect URL only goes to the location you specify. The redirect URLs are used in:
  - Authorize endpoint - when the OAuth flow is started using the `/authorize` endpoint, it directs the caller to the service's authorization endpoint. Several parameters are included in the request, including a redirect URL. The server validates this redirect URL to confirm that it is a URL added as a redirect URL for this account.
  - Token endpoint – the request to the `/token` endpoint includes a redirect URL and the authorization code.

  Click **Add Redirect URL**, enter the URL, and then click **Add**.
- **Location Authorization Scope** - lists the names of the enterprise, locations, revenue centers, and zones. By selecting a scope, you are limiting the access to configuration changes the API account can make at that level.
- **Simphony Role** - a group of privilege options defining what an API account can have access to. Simphony roles determine the EMC modules an API account may access.

3. Click **Add**.
4. A unique **Client ID** value is generated for the API account. Use the ID to authenticate the API account before making API calls. You can retrieve an ID for an account by searching for the account on the API Accounts page and then clicking the account.

   The owner of the API account receives a welcome email with instructions on how to set the password for the account.

> **Note**
>
> If you need required account and connection information, click **Send Details** after adding the account. An email is sent to the account owner with the details.

Editing API User Accounts

Understand how to update API user accounts.

You must have the **Manage API Accounts** privilege to update API accounts.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, click **System**, click **API Accounts**, and then select the account to edit.
2. Make your changes and then click **Save**.

> **Note**
>
> If you need required account and connection information, click **Send Details**. An email is then sent to the account owner with the details.

Viewing API Activity

Understand how to view API activity and the required privileges.

You can view the past seven days worth of API calls using the API activity dashboard. You need the **API Activity** privilege to view API activity, view payload details, and manage data available to Oracle.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, click **System**, and then click **API Activity**.
2. On the API Activity page, click the API.
3. Select a date range and then click **Search**.
4. To view the data for a request, click **View Payload** in the request column. To download the data in a JSON file, click **Download**.
5. To view the data for a response, click **View Payload** in the response column. To download the data in a JSON file, click **Download**.
6. To show or hide columns in the search results, click **Manage Columns**.
7. To make data available to Oracle for monitoring and diagnostics, click **Oracle Access**, click **Enable**, and then specify the date and time when the data is no longer available for monitoring and diagnostics.

6 Reports

Build original reports, manage the reports on your dashboard, organize your most frequently viewed reports, and create custom reports in Excel with iquery.

Reports are the heart of the Enterprise Back Office system. Each report uses a unique combination of tables, charts, or graphs to provide insight into actionable data for your enterprise. Reports are organized by categories that target specific business operations. For example, some reports target menu items while others compare the performance of people or locations.

Reporting and Analytics shows report data on the Dashboard and the My Reports page. Your system administrator determines the data you can see and configures your role for access to that data. You can customize the Dashboard and the My Reports page.

The *Reporting and Analytics Reports Guide* includes descriptions for reports, details about the information presented, and permissions required to view the reports.

Dashboards

Dashboards contain tiles that show snippets of data from reports. Your system administrator configures a default set of tiles to display on the dashboard according to your role. You can customize the dashboard by adding and removing tiles or by changing the order in which the tiles appear on the dashboard. If you need more information for a tile, click the link under the tile title to view the report that supplies the data to the tile.

Current Hour

Some dashboard tiles use a **Current Hour** indicator. The current hour indicates the latest sales as of the location's local time zone.

If multiple locations are selected with different time zones, then the time shown corresponds to the location in the latest time zone. For example, if location A is in the Pacific Time Zone and location B is in the Eastern Time Zone, then most recent sales as of the time for location B is shown.

If a single location is selected, for example location A, then the latest sales in its local time zone (Pacific Time Zone) are shown.

Adding and Assigning Dashboards

You can add up to 12 report tiles to automatically populate the dashboard for each role. Users can then manage their own dashboard and select different tiles later.

1. In Reporting and Analytics, click the side navigation menu, click **Administration**, click **Roles**, and then click the role.
2. Click **Reports Dashboard**.
3. Search for report tiles and then click **Select** to add tiles to the dashboard for this role.

4. Click **Save and Close** or **Save**.

Customizing Dashboards

Dashboard tiles are automatically set based on your role. You can customize the tiles displayed and the order they appear. A maximum of 12 tiles can be displayed on the dashboard.

1. In Reporting and Analytics, click the side navigation menu, click **Reports**, click **Customize**, and then click **User Defined**.
2. Search for report tiles and click **Select** to add tiles to your dashboard.
3. Click **Save and Close**.

Using Bar Charts

Extra columns appear in some bar charts. If a definition type, for example a menu item or revenue center, is not correctly aligned, then the bar chart displays an extra column named **Group 2**. This occurs when there are two records from different sources with the same **Name** and **POSRef** value. For example, two different locations.

To correct this, perform a manual item alignment by merging master items as described in the *Reporting and Analytics User Guide*.

Creating Reporting Hierarchies

You can establish organizational relationships between locations and levels. If the organizational hierarchy and the reporting hierarchy are different, then the location results in iQuery and reports will not be aligned.

1. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Warehouse Admin**, click **Reporting Hierarchies**, and then click **Hierarchies**.
2. Click **Add**.
3. (Optional) Select **Default** to make this hierarchy the default one.

> **Note**
>
> - Only one default can be set.
> - If you want to delete a hierarchy that is set as the default, you must first assign another hierarchy as the default.
> - After changing the default reporting hierarchy, you must sign out and then sign back in to see the changes.
> - Each person is automatically set to use the organization default. To change this setting, the person must navigate to **My Profile** and then update the **Default Reporting Hierarchy** field.

4. Enter a hierarchy name (for example, `District 1`).
5. Add levels to the hierarchy:
   a. Click the side navigation menu, click **Configuration**, and then click **Reporting Levels**.
   b. Click **Add**.
   c. Enter a reporting level name (for example, `Free-standing`).
   d. Click **Save**.
   e. Repeat these substeps to add more levels.
6. Establish relationships between levels:
   a. Click the side navigation menu, click **Configuration**, and then click **Reporting Hierarchy Relationships**.
   b. Select the reporting hierarchy name and then click **Select**.
   c. Click **Assign Level**.
   d. Select the level (for example, **Free-standing**).
   e. Select the parent level. If the level you are assigning is the first level, select **No Parent** from the **Parent Level Name** drop-down list.
   f. Click **Assign Level**.
   g. Repeat these substeps to assign more levels.
7. Establish relationships between levels and locations:
   a. Click **Assign Location**.
   b. Select the location (for example, **Columbia**).
   c. Select the parent level for the location (for example, **Free-standing**).
   d. Click **Assign Location**.
   e. Repeat these substeps to establish remaining level-location relationships.

Creating Category Groups

1. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Warehouse Admin**, click **Category Groups**, and then click **Category Groups**.
2. Click **Add**.
3. Enter a name for the category group and then click **Save**.

Creating Category Group Hierarchies

1. To create a category group hierarchy:
   a. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Warehouse Admin**, click **Category Groups**, and then click **Hierarchies**.
   b. Click **Add** and then enter a name for the hierarchy.
   c. Select the category type from the drop-down list and then click **Save**.
2. To add category groups to the hierarchy and to configure parent-child relationships:
   a. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Warehouse Admin**, click **Category Groups**, and then click **Relationships**.

b. Select the hierarchy and then click **Select**.
c. To add a category group to the hierarchy, click **Assign Group**, select the group and the parent, and then click **Save**.
d. To change the parent-child relationship of a group, select the child group, click **Edit**, change the parent group, and then click **Save**.

Visibility of Gross Sales and Tips

If you are using a Simphony point of sale (POS), you must enable **Employee Shift Tracking** using the increment shift on clock in option to can see **Gross Sales** or **Gross Sales before Discount** and **Tips** in the Time Card Detail report.

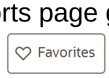
See “Configuring Employee Shifts” in the *Oracle Simphony Configuration Guide* for your Simphony version for more information. Configure Simphony options as follows:

- Select:
  - **#49 - Enable Shift Tracking**
  - **#57 - Increment Employee Shift when Clocking In**
- Deselect:
  - **#56 - ** Increment Employee Shift when Clocking Out**
  - **#58 - Increment Employee Shift when Changing Job**
  - **#59 - Increment Employee Shift when Changing Revenue Center**
  - **#60 - Prompt to Increment Employee Shift after Shift Report**
  - **#61 - Prompt before incrementing Employee Shift**

> **Note**
>
> The following POS client functions, which are configured using Page Design, are not compatible with this feature:
>
> - Increment Cashier Shift for Another Employee
> - Increment Cashier Shift
> - Increment Employee Shift
> - Increment Employee Shift for Another Employee

My Reports

Use this space to easily find your preferred reports. The system administrator can add up to 150 reports that are most relevant for your role. You can add up to 150 more reports to this page.

The My Reports page gives you the option to view only your favorite reports by clicking the favorites icon 

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Manage My Reports

You can personalize My Reports by adding reports you use often.

1. In Reporting and Analytics, click the side navigation menu, click **Reports**, click **My Reports**, and then click **Manage My Reports**.
2. Select one or more reports you want to add.
3. Click **Save and Close**.

Building Reports

Required system privilege: **Add/Edit/View/Delete Reports**.

The Builder tab lets you create original reports that are tailored to your organization's needs. Each report is composed of one or more report components, such as a table or pie chart. You apply a subject area to each report component and can then select measures or attributes associated with that subject area to include in the report component.

The Builder tab lists these reports and their status. Builder report statuses include:

- **Not Published**: a saved report that you can continue to update.
- **Published**: a complete report that others can view.
- **Published — Update Pending**: a report that was published and then revised, but has not been republished with the changes.
- **Invalid**: the XML code is incorrect for report created with the advanced editor. It must be corrected before publishing is possible.

The *Reporting and Analytics Report Designer's Guide* provides details for using the advanced editor.

Building a Report with the Basic Editor

You can build a report with the basic editor that includes your preferred report metrics. The basic editor does not require XML knowledge.

You can begin to build a report without all subject area data permissions, but to preview the report you must have the permissions associated with the report components you select.

Required system privilege: **Add/Edit/View/Delete Reports**.

1. In Reporting and Analytics, click the side navigation menu, click **Reports**, click **Builder**, and then click **Add Report**.
2. Enter the report name and description, and then click **Add**.

   The creation method field is set to **New** by default. Other options include:

   - **Copy**: replicates an existing report.
   - **Sample**: shows a sample report with examples of the report components.

3. Review the **Publish Details** information that will appear on the report preview when published.
   a. Select the **Report Category**. You can select any existing core report category, depending on the use case of the custom report.
   b. Enter a **Report Name**.
   c. Enter a **Report Description**.
   d. Enter **Report Tags**.
4. The **Basic** editor is selected by default.
5. Click **Add** and then select the type of component or click the report component icon.
6. Enter component details:

Report Component	Details
Table	a. Name the table. b. Select a **Subject Area**, this selection will populate the table column options. c. Select a column from **Add a Table Column** and click **Add**. Repeat this process to add more columns. You can also rename the default column names and adjust the order in which they appear. d. Select **Sort by Column**. e. Click **Apply**.
Bar or Line Chart	a. Name the chart. b. Select a **Subject Area**, this selection will populate options in the other fields. c. You can adjust the layout of the bar or line chart by selecting the **Measure Type**, **Chart Type**, and **Y-Axis Type**. d. Select the **Aggregation**, **Attribute**, and **Measure** or measures. e. Select the **Style** to determine the chart type. f. Click **Apply**.
Pie Chart	If selecting a pie chart, negative values do not appear in pie charts created with the basic editor. Use the advanced editor if you want to include these values. a. Name the pie chart. b. Select the **Aggregation**, **Measure**, and **Series**. c. Click **Apply**.

7. Add another report component or move to the next step.
8. Click:

- **Save and Run Preview**: to review the report and publish.
- **Save**: to publish the report later.
- **Save As**: to create a working copy of new changes, but do not want to make permanent changes to the existing report. This action creates a new report with your changes and does not make changes to the original report.

9. Click **Publish** if the report is complete or click **Definition** to edit the report.
10. Review the card preview information and then click **Publish**.

Building a Report with the Advanced Editor

The advanced report builder feature gives you more freedom to personalize reports than the basic builder, though it requires XML knowledge. The *Reporting and Analytics Report Designer's Guide* provides details for using the advanced editor.

You can begin to build a report without all subject area data permissions, but to preview the report you must have those permissions.

Required system privilege: **Add/Edit/View/Delete Reports**.

1. In Reporting and Analytics, click the side navigation menu, click **Reports**, click **Builder**, and then click **Add Report**.
2. Enter the report name and description, and then click **Add**.

   The creation method field is set to **New** by default. Other options include:

   - **Copy**: replicates an existing report.
   - **Sample**: shows a sample report with an example of the XML.
3. Review the **Publish Details** information that will appear on the report preview when published.
   a. Select the **Report Category**. You can select any existing core report category, depending on the use case of the custom report.
   b. Enter a **Report Name**.
   c. Enter a **Report Description**.
   d. Enter **Report Tags**.
4. Click the **Advanced** layout.
5. Enter XML text.
   - For examples of the XML text used to create report components, click **Sample** in step 2.
   - Use the subject area search feature to search for a measure or attribute, for example `Net Sales`, and view the subject areas associated with it. The alias for each subject area, measure, or attribute is in parentheses. When adding XML text, you must use the alias.
   - You can use the basic editor to add report components and then go back to the advanced editor to see the XML text. However, certain changes to the XML text with the advanced editor are not supported in the basic editor.
6. Click **Verify XML** to check for errors.

7. Click:
   - **Save and Run Preview** to review the report and publish.
   - **Save** to publish the report later.
   - **Save As** to create a working copy of new changes, but do not want to make permanent changes to the existing report. This action creates a new report with your changes and does not make changes to the original report.
8. Click **Publish** if the report is complete or click **Definition** to edit the report.
9. Review the card preview information and then click **Publish**.

Revising a Published Report

Required system privilege: **Add/Edit/View/Delete Reports**

> **Note**
>
> You must be the owner of the report to revise it. See the “Transferring Ownership of a Report” section for more details.

1. In Reporting and Analytics, click the side navigation menu, click **Reports**, click **Builder**, and then click the published report you want to revise.
2. Click the **Revision** tab.

   During the revision process, you can click **Revert** to restore the report to the published version.
3. Make your updates to the report and click **Save and Run Preview**.
   - If you want to publish the report later, click **Save**.
4. Click **Republish** if the report is complete or click **Definition** to edit the report.
5. Review the card preview information and then click **Republish**.

Transferring Ownership of a Report

Required system privileges: **Transfer Ownership of Reports** and **Add/Edit/View/Delete Reports**.

1. In Reporting and Analytics, click the side navigation menu, click **Reports**, click **Builder**, and then click the report you want to transfer.
2. Click **Owner**.
3. Select a new owner and then click **Save and Close** or **Save**.

Subject Areas

The report builder provides pre-defined subject areas that include the data points that can be used in customized reports. One report component (table or chart) can be based on one underlying subject area. This guide helps to find the right subject area for the individual reporting requirements.

To help with readability, it lists the subject areas in groups, based on product or granularity of the data points.

For performance reasons, it is recommended that you use the highest available data aggregation level for your reporting needs. For example, if you want to build a report that shows the sales per business date, use the appropriate daily aggregation subject area, and not the quarter hour aggregations or even transaction or transaction details subject area.

Daily Aggregated Sales and Operations Subject Areas

The daily aggregated sales and operations subject areas contain data for operations, menu item sales, discounts, tender, service charge, taxes, job codes, order channels, and employees. The availability of some data points within the subject areas depends on features being used or configured within the POS system.

These subject areas are recommended if the data on your report does not need to be broken down by day part, hour, quarter hour, or check. The subject areas include:

- Discount Daily Total
- Employee Daily Total
- Employee Discount Total
- Employee Job Code Daily Total
- Employee Menu Item Sales
- Employee Order Channel Daily Total
- Employee Service Charge Total
- Employee Tender Media Total
- Job Code Daily Total
- Labor Category Daily Total
- Menu Item Daily Total
- Operations Daily Total
- Order Channel Daily Total
- Service Charge Daily Total
- Tax Daily Total
- Tender Daily Total

Discount Daily Total

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	Business Date	N/A	Date	Date

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Category Group 1 Name	catGrpName1	Yes, for iQuery only	N/A	String	Text
Category Group 2 Name	catGrpName2	Yes, for iQuery only	N/A	String	Text
Category Group 3 Name	catGrpName3	Yes, for iQuery only	N/A	String	Text
Category Group 4 Name	catGrpName4	Yes, for iQuery only	N/A	String	Text
Comp Location	compLoc	N/A	N/A	Integer	Integer
Day of Week	dayofTheWeek	N/A	N/A	String	Text
Discount Amount	discAmt	N/A	Measure	Decimal2	Currency
Discount Count	discCnt	N/A	Measure	Integer	Integer
Discount Name	discName	N/A	N/A	String	Text
Discount Number	discNum	N/A	N/A	Integer	Integer
Financial Period	financialPeriod	N/A	N/A	String	Text
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	Integer	Integer
Financial Year	financialYear	N/A	N/A	String	Text
Inclusive Tax Forgiven	inclTaxForgiven	N/A	Measure	Decimal2	Currency
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Revenue Center	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer

Employee Daily Total

Data Permissions: **General Labor**, **Sales and Operations**, and **Employee Performance**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Average Check	avgCheck	N/A	Measure	Decimal2	Currency
Business Date	busDate	Business Date	N/A	Date	Date
Carry Over Amount	carryOvrAmt	N/A	Measure	Decimal2	Currency

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Carry Over Count	carryOverCnt	N/A	Measure	Integer	Integer
Change in Grand Total	changeInGrandTotal	N/A	Measure	Decimal2	Currency
Charged Receipts Total	chrgdRcptTtl	N/A	Measure	Decimal2	Currency
Charged Tips Total	chargedTipsTtl	N/A	Measure	Decimal2	Currency
Check Count	chksCnt	N/A	Measure	Integer	Integer
Comp Location	compLoc	N/A	N/A	Integer	Integer
Credit Total	creditTotal	N/A	Measure	Decimal2	Currency
Day of Week	dayofTheWeek	N/A	N/A	String	Text
Day Part Name	dayPart	N/A	N/A	String	Text
Day Part Number	dayPartNumber	N/A	N/A	Integer	Integer
Dining Time	dineTime	N/A	Measure	Integer	Integer
Employee Name	employeeName	N/A	N/A	String	Text
Employee Number	empNum	N/A	N/A	Integer	Integer
Employee Pay ID	empPayId	N/A	N/A	Integer	Integer
Error Correct Amount	errCorAmt	N/A	Measure	Decimal2	Currency
Error Correct Count	errCorCnt	N/A	Measure	Integer	Integer
Financial Period	financialPeriod	N/A	N/A	String	Text
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	Integer	Integer
Financial Year	financialYear	N/A	N/A	String	Text
First Name	forename	N/A	N/A	String	Text
Gross Receipts Amount	grossRcptAmt	N/A	Measure	Decimal2	Currency
Gross Sales	grossSales	N/A	Measure	Decimal2	Currency
Guest Count	guestCnt	N/A	Measure	Integer	Integer
Indirect Tips Paid Amount	indirectTipAmt	N/A	Measure	Decimal2	Currency
Item Discount Amount	itemDiscAmt	N/A	Measure	Decimal2	Currency
Last Name	surname	N/A	N/A	String	Text
Location	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Manager Void Amount	mgrVdAmt	N/A	Measure	Decimal2	Currency

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Manager Void Count	mgrVdCnt	N/A	Measure	Integer	Integer
Net Sales	netSls	N/A	Measure	Decimal2	Currency
Non-Revenue Total	nonRevTotal	N/A	Measure	Decimal2	Currency
No Sale Count	noSaleCnt	N/A	Measure	Integer	Integer
Return Amount	retAmt	N/A	Measure	Decimal2	Currency
Return Count	retCnt	N/A	Measure	Integer	Integer
Revenue Center	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Rounding Total	roundTtl	N/A	Measure	Decimal2	Currency
Service Charge Amount	srvcChrgTip	N/A	Measure	Decimal2	Currency
Spend per Guest	spendPerGuest	N/A	Measure	Decimal2	Currency
Subtotal Discount Amount	subTtlDiscAmt	N/A	Measure	Decimal2	Currency
Table Turns Count	tblTurnCnt	N/A	Measure	Integer	Integer
Tax Collected	taxCollected	N/A	Measure	Decimal2	Currency
Tips Declared Amount	tipDeclAmt	N/A	Measure	Decimal2	Currency
Tips Paid Amount	tipPaidAmt	N/A	Measure	Decimal2	Currency
Total Tip Amount	tipAmt	N/A	Measure	Decimal2	Currency
Transaction Cancelled Amount	xferCnclAmt	N/A	Measure	Decimal2	Currency
Transaction Cancelled Count	xferCnclCnt	N/A	Measure	Integer	Integer
Void Amount	vdAmt	N/A	Measure	Decimal2	Currency
Void Count	vdCnt	N/A	Measure	Integer	Integer

Employee Discount Total

Data Permissions: **Sales and Operations** and **Employee Performance**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	Business Date	N/A	Date	Date

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Comp Location	compLoc	N/A	N/A	Integer	Integer
Day of Week	dayofTheWeek	N/A	N/A	String	Text
Day Part Name	dayPart	N/A	N/A	String	Text
Day Part Number	dayPartNum	N/A	N/A	Integer	Integer
Discount Amount	discAmt	N/A	Measure	Decimal2	Currency
Discount Count	discCnt	N/A	N/A	Integer	Integer
Discount Name	discName	N/A	N/A	String	Text
Discount Number	discNum	N/A	N/A	Integer	Integer
Employee Name	employeeName	N/A	N/A	String	Text
Employee Number	empNum	N/A	N/A	String	Text
Financial Period	financialPeriod	N/A	N/A	String	Text
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	Integer	Integer
Financial Year	financialYear	N/A	N/A	String	Text
First Name	forename	N/A	N/A	String	Text
Last Name	surname	N/A	N/A	String	Text
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Revenue Center	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer

Employee Job Code Daily Total

Data Permissions: **General Labor**, **Employee Performance**, **Hourly Pay Rates**, and **Salaried Pay Rates**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	Business Date	N/A	Date	Date
Employee Name	empName	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Employee Number	empNumber	N/A	N/A	Integer	Integer
First Name	forename	N/A	N/A	String	Text
Job Code Name	jobName	N/A	N/A	String	Text
Job Code Number	jobNum	N/A	N/A	Integer	Integer
Last Name	surname	N/A	N/A	String	Text
Location	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Overtime 1 Hours	otHrs1	N/A	Measure	Decimal2	Currency
Overtime 1 Pay	otPay1	N/A	Measure	Decimal2	Currency
Overtime 2 Hours	otHrs2	N/A	Measure	Decimal2	Currency
Overtime 2 Pay	otPay2	N/A	Measure	Decimal2	Currency
Overtime 3 Hours	otHrs3	N/A	Measure	Decimal2	Currency
Overtime 3 Pay	otPay3	N/A	Measure	Decimal2	Currency
Overtime 4 Hours	otHrs4	N/A	Measure	Decimal2	Currency
Overtime 4 Pay	otPay4	N/A	Measure	Decimal2	Currency
Overtime Pay	otPayTtl	N/A	Measure	Decimal2	Currency
Regular Hours	regHrs	N/A	Measure	Decimal2	Currency
Regular Pay	regPay	N/A	Measure	Decimal2	Currency
Total Overtime Hours	otHrsTtl	N/A	Measure	Decimal2	Currency

Employee Menu Item Sales

Data Permissions: **Sales and Operations** and **Employee Performance**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	Business Date	N/A	Date	Date
Comp Location	compLoc	N/A	N/A	Integer	Integer
Cost of Goods Sold Amount	cogs	N/A	Measure	Decimal2	Currency
Cost of Goods Sold Percent	prepCostPerce nt	N/A	Measure	Decimal2	Currency
Day of Week	dayofTheWeek	N/A	N/A	String	Text
Day Part	dayPart	N/A	N/A	String	Text
Day Part Number	dayPartNum	N/A	N/A	Integer	Integer

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Discount Amount	discAmt	N/A	Measure	Decimal2	Currency
Employee Name	employeeName	N/A	N/A	String	String
Employee Number	empNum	N/A	N/A	Integer	Integer
Family Group Name	familyGrp	Yes, for iQuery only	N/A	String	Text
Family Group Number	familyGroupNum	N/A	N/A	Integer	Integer
Financial Period	financialPeriod	N/A	N/A	String	Text
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	String	Text
Financial Year	financialYear	N/A	N/A	String	Text
First Name	firstName	N/A	N/A	String	Text
Last Name	lastName	N/A	N/A	String	Text
Location	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Major Group Name	majorGrp	N/A	N/A	String	Text
Major Group Number	majorGroupNum	Yes, for iQuery only	N/A	Integer	Integer
Menu Item Name	itemName	N/A	N/A	String	Text
Menu Item Number	itemNum	N/A	N/A	Integer	Integer
Order Channel Name	orderChannelName	N/A	N/A	String	Text
Order Channel Number	orderChannelNum	N/A	N/A	Integer	Integer
Order Type Name	orderName	Order Type	N/A	String	Text
Order Type Number	orderTypeNum	N/A	N/A	Integer	Integer
Return Count	retCnt	N/A	Measure	Integer	Integer
Revenue Center Name	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Sales Count	slsCnt	N/A	Measure	Integer	Integer
Sales Total	slsTtl	N/A	Measure	Decimal2	Currency

Employee Order Channel Daily Total

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Average Check	avgCheck	N/A	Measure	Decimal2	Currency
Business Date	busDate	Business Date	N/A	Date	Date
Charged Receipts Total	chrgdRcptTtl	N/A	Measure	Decimal2	Currency
Charged Tips Total	chargedTipsTtl	N/A	Measure	Decimal2	Currency
Check Count	chksCnt	N/A	Measure	Integer	Integer
Comp Location	compLoc	N/A	N/A	Integer	Integer
Credit Total	creditTotal	N/A	Measure	Decimal2	Currency
Day of Week	dayofTheWeek	N/A	N/A	String	Text
Day Part Name	dayPart	N/A	N/A	String	Text
Day Part Number	dayPartNumber	N/A	N/A	Integer	Integer
Dining Time	dineTime	N/A	Measure	Integer	Integer
Discount Amount	discAmt	N/A	Measure	Decimal2	Currency
Employee Name	employeeName	N/A	N/A	String	Text
Employee Number	empNum	N/A	N/A	Integer	Integer
Error Correct Amount	errCorAmt	N/A	Measure	Decimal2	Currency
Error Correct Count	errCorCnt	N/A	Measure	Integer	Integer
Financial Period	financialPeriod	N/A	N/A	String	Text
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	Integer	Integer
Financial Year	financialYear	N/A	N/A	String	Text
First Name	forename	N/A	N/A	String	Text
Gross Receipts Amount	grossRcptAmt	N/A	Measure	Decimal2	Currency
Gross Sales	grossSales	N/A	Measure	Decimal2	Currency
Guest Count	guestCnt	N/A	Measure	Integer	Integer
Indirect Tips Paid Amount	indirectTipAmt	N/A	Measure	Decimal2	Currency
Last Name	surname	N/A	N/A	String	Text
Location	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Manager Void Amount	mgrVdAmt	N/A	Measure	Decimal2	Currency
Manager Void Count	mgrVdCnt	N/A	Measure	Integer	Integer
Net Sales	netSls	N/A	Measure	Decimal2	Currency
Non-Revenue Total	nonRevTotal	N/A	Measure	Decimal2	Currency
No Sale Count	noSaleCnt	N/A	Measure	Integer	Integer
Order Channel Name	orderChannel Name	Order Channel	N/A	String	Text
Order Channel Number	orderChannel Num	N/A	N/A	Integer	Integer
Order Type Name	orderName	Order Type	N/A	String	Text
Order Type Number	orderTypeNu m	N/A	N/A	Integer	Integer
Return Amount	retAmt	N/A	Measure	Decimal2	Currency
Return Count	retCnt	N/A	Measure	Integer	Integer
Revenue Center	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Service Charge Amount	srvcChrgTip	N/A	Measure	Decimal2	Currency
Spend per Guest	spendPerGuest	N/A	Measure	Decimal2	Currency
Table Turns Count	tblTurnCnt	N/A	Measure	Integer	Integer
Tax Collected	taxCollected	N/A	Measure	Decimal2	Currency
Tips Declared Amount	tipDeclAmt	N/A	Measure	Decimal2	Currency
Tips Paid Amount	tipPaidAmt	N/A	Measure	Decimal2	Currency
Total Tip Amount	tipAmt	N/A	Measure	Decimal2	Currency
Transaction Cancelled Amount	xferCnclAmt	N/A	Measure	Decimal2	Currency
Transaction Cancelled Count	xferCnclCnt	N/A	Measure	Integer	Integer
Void Amount	vdAmt	N/A	Measure	Decimal2	Currency
Void Count	vdCnt	N/A	Measure	Integer	Integer

Employee Service Charge Total

Data Permissions: **Sales and Operations** and **Employee Performance**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	Business Date	N/A	Date	Date
Comp Location	compLoc	N/A	N/A	Integer	Integer
Day of Week	dayofTheWeek	N/A	N/A	String	Text
Day Part	dayPart	N/A	N/A	String	Text
Day Part Number	dayPartNum	N/A	N/A	Integer	Integer
Employee Name	employeeName	N/A	N/A	String	Text
Employee Number	empNum	N/A	N/A	Integer	Integer
Financial Period	financialPeriod	N/A	N/A	String	Text
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	String	Text
Financial Year	financialYear	N/A	N/A	String	Text
First Name	firstName	N/A	N/A	String	Text
Last Name	lastName	N/A	N/A	String	Text
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Revenue Center Name	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Service Charge Amount	srvcChrgTip	N/A	Measure	Decimal2	Currency
Service Charge Count	srvcCnt	N/A	Measure	Integer	Integer
Service Charge Name	srvcName	N/A	N/A	String	Text
Service Charge Number	srvcNum	N/A	N/A	Integer	Integer

Employee Tender Media Total

Data Permissions: **Sales and Operations** and **Employee Performance**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	Business Date	N/A	Date	Date
Comp Location	compLoc	N/A	N/A	Integer	Integer
Day of Week	dayofTheWeek	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Day Part	dayPart	N/A	N/A	String	Text
Day Part Number	dayPartNum	N/A	N/A	Integer	Integer
Employee Name	employeeName	N/A	N/A	String	Text
Employee Number	empNum	N/A	N/A	Integer	Integer
Financial Period	financialPeriod	N/A	N/A	String	Text
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	String	Text
Financial Year	financialYear	N/A	N/A	String	Text
First Name	forename	N/A	N/A	String	Text
Last Name	surname	N/A	N/A	String	Text
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Revenue Center Name	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Tender Amount	tndrTtl	N/A	Measure	Decimal2	Currency
Tender Count	tndrCnt	N/A	Measure	Integer	Integer
Tender Name	tndrName	N/A	N/A	String	Text
Tender Number	tndrNum	N/A	N/A	Integer	Integer
Tender Subtype	tndrSubType	N/A	N/A	Integer	Integer
Tender Type	tndrType	N/A	N/A	Integer	Integer

Job Code Daily Total

Data Permissions: **General Labor**, **Hourly Pay Rates**, and **Salaried Pay Rates**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Average Pay Rate	avgPayRate	N/A	Measure	Decimal2	Currency
Business Date	busDate	Business Date	N/A	Date	Date
Job Code Name	jobName	N/A	N/A	String	Text
Job Code Number	jobNum	N/A	N/A	Integer	Integer

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Labor Category Name	labCat	N/A	N/A	String	Text
Labor Category Number	labCatNum	N/A	N/A	Integer	Integer
Location	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Overtime 1 Hours	otHrs1	N/A	Measure	Decimal2	Currency
Overtime 1 Pay	otPay1	N/A	Measure	Decimal2	Currency
Overtime 2 Hours	otHrs2	N/A	Measure	Decimal2	Currency
Overtime 2 Pay	otPay2	N/A	Measure	Decimal2	Currency
Overtime 3 Hours	otHrs3	N/A	Measure	Decimal2	Currency
Overtime 3 Pay	otPay3	N/A	Measure	Decimal2	Currency
Overtime 4 Hours	otHrs4	N/A	Measure	Decimal2	Currency
Overtime 4 Pay	otPay4	N/A	Measure	Decimal2	Currency
Regular Hours	regHrs	N/A	Measure	Decimal2	Currency
Regular Pay	regPay	N/A	Measure	Decimal2	Currency
Revenue Center	rvc	Revenue Center	N/A	String	Text
Total Overtime Hours	otHrsTtl	N/A	Measure	Decimal2	Currency
Total Overtime Pay	otPayTtl	N/A	Measure	Decimal2	Currency

Labor Category Daily Total

Data Permissions: **General Labor**, **Hourly Pay Rates**, and **Salaried Pay Rates**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	Business Date	N/A	Date	Date
Labor Category Name	labCat	N/A	N/A	String	Text
Labor Category Number	labCatNum	N/A	N/A	Integer	Integer
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Regular Hours	regHrs	N/A	Measure	Decimal2	Currency

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Regular Pay	regPay	N/A	Measure	Decimal2	Currency
Theoretical Hours	theoHrs	N/A	Measure	Decimal2	Currency
Total Overtime Hours	otHrsTtl	N/A	Measure	Decimal2	Currency
Total Overtime Pay	otPayTtl	N/A	Measure	Decimal2	Currency

Menu Item Daily Total

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Average Cost	avgCost	N/A	N/A	Decimal2	Currency
Average Price	avgPrice	N/A	N/A	Decimal2	Currency
Business Date	busDate	Business Date	N/A	Date	Date
Category Group 1 Name	catGrpName1	Yes, for iQuery only	N/A	String	Text
Category Group 2 Name	catGrpName2	Yes, for iQuery only	N/A	String	Text
Category Group 3 Name	catGrpName3	Yes, for iQuery only	N/A	String	Text
Category Group 4 Name	catGrpName4	Yes, for iQuery only	N/A	String	Text
Comp Location	compLoc	N/A	N/A	Integer	Integer
Cost of Goods Sold Amount	cogs	N/A	Measure	Decimal2	Currency
Cost of Goods Sold Percent	prepCostPercent	N/A	N/A	Decimal2	Currency
Day of Week	dayofTheWeek	N/A	N/A	String	String
Discount Amount	discAmt	N/A	Measure	Decimal2	Currency
Discount VAT Amount Extended Precision	discVatTtlExt	N/A	Measure	Decimal2	Currency
External Reference 1	extRef	N/A	N/A	String	Text
Family Group Name	familyGrp	Yes, for iQuery only	N/A	String	Text
Family Group Number	familyGroupNum	N/A	N/A	Integer	Integer
Financial Period	financialPeriod	N/A	N/A	String	Text
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	String	Text
Financial Year	financialYear	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Gross Sales after Discount	slsGrossAftDisc	N/A	Measure	Decimal2	Currency
Gross Sales before Discount	slsGrossB4Disc	N/A	Measure	Decimal2	Currency
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Major Group Name	majorGrp	Yes, for iQuery only	N/A	String	Text
Major Group Number	majorGroupNum	N/A	N/A	Integer	Integer
Menu Item Name	itemName	N/A	N/A	String	Text
Menu Item Number	itemNum	N/A	N/A	Integer	Integer
Order Channel Name	orderChannelName	N/A	N/A	String	Text
Order Channel Number	orderChannelNum	N/A	N/A	Integer	Integer
Order Type Name	orderName	Order Type	N/A	String	Text
Order Type Number	orderTypeNum	N/A	N/A	Integer	Integer
Return Count	retCnt	N/A	Measure	Integer	Integer
Revenue Center Name	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Sales Count	slsCnt	N/A	Measure	Integer	Integer
Sales less Item Discount	slsTtl	N/A	Measure	Decimal2	Currency
Sales Net VAT/GST/Taxes	slsNetVatAftDisc	N/A	Measure	Decimal2	Currency
Sales Net VAT/GST/Taxes before Discount	slsNetVatB4Disc	N/A	Measure	Decimal2	Currency
Total VAT/GST/ Inclusive Taxes Amount	vatTtl	N/A	Measure	Decimal2	Currency
VAT Amount Extended Precision	vatTtlExt	N/A	Measure	Decimal2	Currency
Volume	vol	N/A	Measure	Decimal2	Currency

Operations Daily Total

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
All Sales Net VAT/GST/Taxes	allSlsNetTax	N/A	Measure	Decimal2	Currency
Average Check	avgCheck	N/A	Measure	Decimal2	Currency
Budget Total	budgTtl	N/A	Measure	Decimal2	Currency
Business Date	busDate	Business Date	N/A	Date	Date
Carry Over Amount	caryOvrAmt	N/A	Measure	Decimal2	Currency
Carry Over Count	caryOvrCnt	N/A	Measure	Integer	Integer
Check Closed Amount	chkClsdAmt	N/A	Measure	Decimal2	Currency
Check Closed Count	chkClsdCnt	N/A	Measure	Integer	Integer
Check Open Amount	chkOpnAmt	N/A	Measure	Decimal2	Currency
Check Open Count	chkOpnCnt	N/A	Measure	Integer	Integer
Checks Count	chksCnt	N/A	Measure	Integer	Integer
Check Transfer-in Amount	chkXferInAmt	N/A	Measure	Decimal2	Currency
Check Transfer-in Count	chkXferInCnt	N/A	Measure	Integer	Integer
Check Transfer Out Amount	chkXferOutAmt	N/A	Measure	Decimal2	Currency
Check Transfer Out Count	chkXferOutCnt	N/A	Measure	Integer	Integer
Comp Location	compLoc	N/A	N/A	Integer	Integer
Contribution Margin	contributionMargin	N/A	Measure	Decimal2	Currency
Cost of Goods Sold Amount	cosAmt	N/A	Measure	Decimal2	Currency
Cost of Goods Sold Percent	cosAmt	N/A	Measure	Decimal2	Currency
Credit Total	creditTotal	N/A	Measure	Decimal2	Currency
Day of Week	dayOfTheWeek	N/A	N/A	String	Text
Dining Time	dineTime	N/A	Measure	Integer	Integer
Drive Thru Time	drvThruTime	N/A	Measure	Integer	Integer
Error Correct Amount	errCorAmt	N/A	Measure	Decimal2	Currency
Error Correct Count	errCorCnt	N/A	Measure	Integer	Integer
Financial Period	financialPeriod	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	String	Text
Financial Year	financialYear	N/A	N/A	String	Text
Grand Total	grandTtl	N/A	Measure	Decimal2	Currency
Gross Sales	grossSales	N/A	Measure	Decimal2	Currency
Gross Sales after Discount	slsGrossAftDisc	N/A	Measure	Decimal2	Currency
Gross Sales before Discount	slsGrossB4Disc	N/A	Measure	Decimal2	Currency
Guest Count	guestCnt	N/A	Measure	Integer	Integer
High Temperature	tempHigh	N/A	N/A	Integer	Integer
Item Discount Amount	itemDiscAmt	N/A	Measure	Decimal2	Currency
Labor Cost	laborCost	N/A	Measure	Decimal2	Currency
Labor Cost Percent	laborCostPercent	N/A	Measure	Decimal2	Currency
Last Years Checks	lastYrChks	N/A	Measure	Decimal2	Currency
Last Years Guests	lastYrGuest	N/A	Measure	Decimal2	Currency
Last Years Sales	lastYrSls	N/A	Measure	Decimal2	Currency
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Low Temperature	tempLow	N/A	N/A	Integer	Integer
Manager Void Amount	mgrVdAmt	N/A	Measure	Decimal2	Currency
Manager Void Count	mgrVdCnt	N/A	Measure	Integer	Integer
Net Sales	netSls	N/A	Measure	Decimal2	Currency
Non-Revenue Total	nonRevTotal	N/A	Measure	Decimal2	Currency
Non Taxable Sales Total	nonTaxSlsTtl	N/A	Measure	Decimal2	Currency
Operating Margin	operatingMargin	N/A	Measure	Decimal2	Currency
Over Short	ovrShrt	N/A	Measure	Decimal2	Currency
Parked Cars Count	parkCarCnt	N/A	Measure	Integer	Integer
Prepared Items Count	prepItemCnt	N/A	Measure	Integer	Integer
Regular Hours	regHrs	N/A	Measure	Decimal2	Currency

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Regular Pay	regPay	N/A	Measure	Decimal2	Currency
Return Amount	retAmt	N/A	Measure	Decimal2	Currency
Return Count	retCnt	N/A	Measure	Integer	Integer
Revenue Center Name	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Rounding Total	roundTtl	N/A	Measure	Decimal2	Currency
Sales Forecast	slsFcast	N/A	Measure	Decimal2	Currency
Sales Net VAT/GST/Taxes	slsNetInclTax	N/A	Measure	Decimal2	Currency
Service Charge Amount	srvcChrgTip	N/A	Measure	Decimal2	Currency
Speed of Service Time 1	timeSos1	N/A	Measure	Integer	Integer
Speed of Service Time 2	timeSos2	N/A	Measure	Integer	Integer
Speed of Service Time 3	timeSos3	N/A	Measure	Integer	Integer
Speed of Service Time 4	timeSos4	N/A	Measure	Integer	Integer
Spend per Guest	spendPerGuest	N/A	Measure	Decimal2	Currency
Subtotal Discount Amount 1	subDiscTtl1	N/A	Measure	Decimal2	Currency
Subtotal Discount Amount 2	subDiscTtl2	N/A	Measure	Decimal2	Currency
Subtotal Discount Amount 3	subDiscTtl3	N/A	Measure	Decimal2	Currency
Subtotal Discount Amount 4	subDiscTtl4	N/A	Measure	Decimal2	Currency
Tables Count	tblCnt	N/A	Measure	Integer	Integer
Table Turns Count	tblTurnCnt	N/A	Measure	Integer	Integer
Tax Collected Total	taxCollectAmt	N/A	Measure	Decimal2	Currency
Tax Credited	taxCreditedTot al	N/A	Measure	Decimal2	Currency
Tax Exempt Sales Total	taxExmptSlsTtl	N/A	Measure	Decimal2	Currency
Total Overtime Hours	otHrsTtle	N/A	Measure	Decimal2	Currency

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Total Overtime Pay	otPayTtl	N/A	Measure	Decimal2	Currency
Total Prep Time	timeToPrep	N/A	Measure	Integer	Integer
Total Revenue	totalRevenue	N/A	Measure	Decimal2	Currency
Total VAT/GST/ Inclusive Taxes Amount	inclTaxTtlAmount	N/A	Measure	Decimal2	Currency
Transaction Canceled Amount	xferCnclAmount	N/A	Measure	Decimal2	Currency
Transaction Canceled Count	xferCnclCnt	N/A	Measure	Integer	Integer
Void Amount	vdAmt	N/A	Measure	Decimal2	Currency
Void Count	vdCnt	N/A	Measure	Integer	Integer
Waiting Parties Count	waitCnt	N/A	Measure	Integer	Integer
Wait Time	timeToWait	N/A	Measure	Integer	Integer
Weather Condition	weather	N/A	N/A	String	Text

Order Channel Daily Total

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
All Sales Net VAT/GST/Taxes	allSlsNetTax	N/A	Measure	Decimal2	Currency
Average Check	avgCheck	N/A	Measure	Decimal2	Currency
Business Date	busDate	Business Date	N/A	Date	Date
Checks Count	chksCnt	N/A	Measure	Integer	Integer
Check Transfer-in Amount	checkxferintotal	N/A	Measure	Decimal2	Currency
Check Transfer-in Count	checkxferincount	N/A	Measure	Integer	Integer
Check Transfer Out Amount	checkxferouttotal	N/A	Measure	Decimal2	Currency
Check Transfer Out Count	checkxferoutcount	N/A	Measure	Integer	Integer
Comp Location	compLoc	N/A	N/A	Integer	Integer
Contribution Margin	contributionMargin	N/A	Measure	Decimal2	Currency
Cost of Goods Sold Amount	cogs	N/A	Measure	Decimal2	Currency
Credit Total	creditTotal	N/A	Measure	Decimal2	Currency

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Day of Week	dayOfTheWeek	N/A	N/A	String	Text
Dining Time	dineTime	N/A	Measure	Integer	Integer
Discount Amount	discAmt	N/A	Measure	Decimal2	Currency
Error Correct Amount	errCorAmt	N/A	Measure	Decimal2	Currency
Error Correct Count	errCorCnt	N/A	Measure	Integer	Integer
Financial Period	financialPeriod	N/A	N/A	String	Text
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	String	Text
Financial Year	financialYear	N/A	N/A	String	Text
Gross Sales	grossSales	N/A	Measure	Decimal2	Currency
Gross Sales after Discount	slsGrossAftDisc	N/A	Measure	Decimal2	Currency
Gross Sales before Discount	slsGrossB4Disc	N/A	Measure	Decimal2	Currency
Guest Count	guestCnt	N/A	Measure	Integer	Integer
Last Years Checks	lastYrChks	N/A	Measure	Decimal2	Currency
Last Years Guests	lastYrGuest	N/A	Measure	Decimal2	Currency
Last Years Sales	lastYrSls	N/A	Measure	Decimal2	Currency
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Manager Void Amount	mgrVdAmt	N/A	Measure	Decimal2	Currency
Manager Void Count	mgrVdCnt	N/A	Measure	Integer	Integer
Net Sales	netSls	N/A	Measure	Decimal2	Currency
Non-Revenue Total	nonRevTotal	N/A	Measure	Decimal2	Currency
Order Channel Name	orderChannelName	Order Channel	N/A	String	Text
Order Channel Number	orderChannelNum	N/A	N/A	Integer	Integer
Order Type Name	orderName	Order Type	N/A	String	Text
Order Type Number	orderTypeNum	N/A	N/A	Integer	Integer

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Return Amount	retAmt	N/A	Measure	Decimal2	Currency
Return Count	retCnt	N/A	Measure	Integer	Integer
Revenue Center Name	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Sales Net VAT/GST/Taxes	slsNetTaxes	N/A	Measure	Decimal2	Currency
Service Charge Amount	srvcChrgTip	N/A	Measure	Decimal2	Currency
Spend per Guest	spendPerGuest	N/A	Measure	Decimal2	Currency
Table Turns Count	tblTurnCnt	N/A	Measure	Integer	Integer
Tax Collected Total	taxCollectAmt	N/A	Measure	Decimal2	Currency
Total VAT/GST/ Inclusive Taxes Amount	inclTaxTtlAmo unt	N/A	Measure	Decimal2	Currency
Transaction Canceled Amount	xferCnclAmou nt	N/A	Measure	Decimal2	Currency
Transaction Canceled Count	xferCnclCnt	N/A	Measure	Integer	Integer
Void Amount	vdAmt	N/A	Measure	Decimal2	Currency
Void Count	vdCnt	N/A	Measure	Integer	Integer

Service Charge Daily Total

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	Business Date	N/A	Date	Date
Category Group 1 Name	catGrpName1	Yes, iQuery only	N/A	String	Text
Category Group 2 Name	catGrpName2	Yes, iQuery only	N/A	String	Text
Category Group 3 Name	catGrpName3	Yes, iQuery only	N/A	String	Text
Category Group 4 Name	catGrpName4	Yes, iQuery only	N/A	String	Text
Comp Location	compLoc	N/A	N/A	Integer	Integer
Day of Week	dayofTheWeek	N/A	N/A	String	Text
Financial Period	financialPerio d	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	String	Text
Financial Year	financialYear	N/A	N/A	String	Text
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Revenue Center Name	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Service Charge Amount	srvcChrgTip	N/A	Measure	Decimal2	Currency
Service Charge Count	srvcCnt	N/A	Measure	Integer	Integer
Service Charge Name	srvcName	N/A	N/A	String	Text
Service Charge Number	srvcNum	N/A	N/A	Integer	Integer
Tax Rate	taxRate	N/A	N/A	Decimal2	Currency
Total VAT/GST/ Inclusive Taxes Amount	inclTaxTtlAmount	N/A	Measure	Decimal2	Currency
Type	accType	N/A	N/A	Integer	Integer

Tax Daily Total

Data Permission: **Sales and Operation**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	Business Date	N/A	Date	Date
Category Group 1 Name	catGrpName1	Yes, iQuery only	N/A	String	Text
Category Group 2 Name	catGrpName2	Yes, iQuery only	N/A	String	Text
Category Group 3 Name	catGrpName3	Yes, iQuery only	N/A	String	Text
Category Group 4 Name	catGrpName4	Yes, iQuery only	N/A	String	Text
Comp Location	compLoc	N/A	N/A	Integer	Integer
Day of Week	dayofTheWeek	N/A	N/A	String	Text
Financial Period	financialPeriod	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	String	Text
Financial Year	financialYear	N/A	N/A	String	Text
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Revenue Center Name	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Taxable Sales	taxSls	N/A	Measure	Decimal2	Currency
Taxable Sales Net VAT/GST/ Taxes	taxableInclTaxTtl	N/A	Measure	Decimal2	Currency
Tax Collected	collectTax	N/A	Measure	Decimal2	Currency
Tax Exempt Sales	taxSlsExmpt	N/A	Measure	Decimal2	Currency
Tax Name	nameTax	N/A	N/A	String	Text
Tax Number	numTax	N/A	N/A	Integer	Integer
Tax Rate	rateTax	N/A	N/A	Decimal2	Currency
Type	accType	N/A	N/A	Integer	Integer
VAT/GST/ Inclusive Tax Collected	inclTaxColl	N/A	Measure	Decimal2	Currency

Tender Daily Total

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Auto Closed Tender	autoCloseTender	N/A	N/A	Integer	Integer
Business Date	busDate	Business Date	N/A	Date	Date
Category Group 1 Name	catGrpName1	Yes, for iQuery only	N/A	String	Text
Category Group 2 Name	catGrpName2	Yes, for iQuery only	N/A	String	Text
Category Group 3 Name	catGrpName3	Yes, for iQuery only	N/A	String	Text
Category Group 4 Name	catGrpName4	Yes, for iQuery only	N/A	String	Text
Comp Location	compLoc	N/A	N/A	Integer	Integer

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Day of Week	dayofTheWeek	N/A	N/A	String	Text
Financial Period	financialPeriod	N/A	N/A	String	Text
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	String	Text
Financial Year	financialYear	N/A	N/A	String	Text
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Revenue Center Name	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Tender Amount	tndrTtl	N/A	Measure	Decimal2	Currency
Tender Count	tndrCnt	N/A	Measure	Integer	Integer
Tender Name	tndrName	N/A	N/A	String	Text
Tender Number	tndrNum	N/A	N/A	Integer	Integer
Tender Subtype	tndrSubType	N/A	N/A	Integer	Integer
Tender Type	tndrType	N/A	N/A	Integer	Integer

Quarter Hour Aggregate Sales and Operations Subject Areas

The quarter hour aggregated sales and operations subject areas contain data for operations, menu item sales, discounts, tender, service charge, job codes, and order channels. The availability of some data points within the subject areas depends on features being used or configured within the POS system.

These subject areas are recommended if the data on your report needs to be broken down by day part, hour, or quarter hour. The subject areas include:

- Discount Fixed Period Total
- Job Code Fixed Period Total
- Labor Category Fixed Period Total
- Menu Item Fixed Period Total
- Operations Fixed Period Total
- Order Channel Fixed Period Total
- Service Charge Fixed Period Total

- Tender Fixed Period Total

Discount Fixed Period Total

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	Business Date	N/A	Date	Date
Business Hour	busHour	Yes, for iQuery only	N/A	Integer	Integer
Category Group 1 Name	catGrpName1	Yes, for iQuery only	N/A	String	Text
Category Group 2 Name	catGrpName2	Yes, for iQuery only	N/A	String	Text
Category Group 3 Name	catGrpName3	Yes, for iQuery only	N/A	String	Text
Category Group 4 Name	catGrpName4	Yes, for iQuery only	N/A	String	Text
Comp Location	compLoc	N/A	N/A	Integer	Integer
Day of Week	dayofTheWeek	N/A	N/A	String	Text
Day Part Name	dayPart	N/A	N/A	String	Text
Day Part Number	dayPartNumbe r	N/A	N/A	Integer	Integer
Discount Amount	discAmt	N/A	Measure	Decimal2	Currency
Discount Count	discCnt	N/A	Measure	Integer	Integer
Discount Name	discName	N/A	N/A	String	Text
Discount Number	discNum	N/A	N/A	Integer	Integer
Financial Period	financialPerio d	N/A	N/A	String	Text
Financial Quarter	financialQuart er	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	Integer	Integer
Financial Year	financialYear	N/A	N/A	String	Text
Inclusive Tax Forgiven	inclTaxForgive n	N/A	Measure	Decimal1	Currency
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Order Channel Name	orderChannel Name	N/A	N/A	String	Text
Order Channel Number	orderChannel Num	N/A	N/A	Integer	Integer
Order Type Name	orderName	Order Type	N/A	String	Text
Order Type Number	orderTypeNu m	N/A	N/A	Integer	Integer

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Quarter Hour	qtrHr	Yes, for iQuery only	N/A	Integer	Integer
Revenue Center	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer

Job Code Fixed Period Total

Data Permissions: **General Labor**, **Hourly Pay Rates**, and **Salaried Pay Rates**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	Business Date	N/A	Date	Date
Business Hour	busHour	Yes, for iQuery only	N/A	Integer	Integer
Job Code Name	jobName	N/A	N/A	String	Text
Job Code Number	jobNum	N/A	N/A	Integer	Integer
Labor Category Name	labCat	N/A	N/A	String	Text
Labor Category Number	labCatNum	N/A	N/A	Integer	Integer
Location	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Overtime 1 Hours	otHrs1	N/A	Measure	Decimal2	Currency
Overtime 1 Pay	otPay1	N/A	Measure	Decimal2	Currency
Overtime 2 Hours	otHrs2	N/A	Measure	Decimal2	Currency
Overtime 2 Pay	otPay2	N/A	Measure	Decimal2	Currency
Overtime 3 Hours	otHrs3	N/A	Measure	Decimal2	Currency
Overtime 3 Pay	otPay3	N/A	Measure	Decimal2	Currency
Overtime 4 Hours	otHrs4	N/A	Measure	Decimal2	Currency
Overtime 4 Pay	otPay4	N/A	Measure	Decimal2	Currency
Quarter Hour	qtrHr	Yes, for iQuery only	N/A	Integer	Integer
Regular Hours	regHrs	N/A	Measure	Decimal2	Currency
Regular Pay	regPay	N/A	Measure	Decimal2	Currency

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Revenue Center	rvc	Revenue Center	N/A	String	Text
Total Overtime Hours	otHrsTtl	N/A	Measure	Decimal2	Currency
Total Overtime Pay	otPayTtl	N/A	Measure	Decimal2	Currency

Labor Category Fixed Period Total

Data Permissions: **General Labor**, **Hourly Pay Rates**, and **Salaried Pay Rates**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	Business Date	N/A	Date	Date
Business Hour	busHour	Yes, for iQuery only	N/A	Integer	Integer
Labor Category Name	labCat	N/A	N/A	String	Text
Labor Category Number	labCatNum	N/A	N/A	Integer	Integer
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Quarter Hour	qtrHr	Yes, for iQuery only	N/A	Integer	Integer
Regular Hours	regHrs	N/A	Measure	Decimal2	Currency
Regular Pay	regPay	N/A	Measure	Decimal2	Currency
Theoretical Hours	theoHrs	N/A	Measure	Decimal2	Currency
Total Overtime Hours	otHrsTtl	N/A	Measure	Decimal2	Currency
Total Overtime Pay	otPayTtl	N/A	Measure	Decimal2	Currency

Menu Item Fixed Period Total

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	Business Date	N/A	Date	Date
Business Hour	busHour	Yes	N/A	Integer	Integer
Category Group 1 Name	catGrpName1	Yes, iQuery only	N/A	String	Text
Category Group 2 Name	catGrpName2	Yes, iQuery only	N/A	String	Text
Category Group 3 Name	catGrpName3	Yes, iQuery only	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Category Group 4 Name	catGrpName4	Yes, iQuery only	N/A	String	Text
Comp Location	compLoc	N/A	N/A	Integer	Integer
Cost of Goods Sold Amount	cogs	N/A	Measure	Decimal2	Currency
Cost of Goods Sold Percent	prepCostPercent	N/A	Measure	Decimal2	Currency
Day of Week	dayofTheWeek	N/A	N/A	String	Text
Day Part Name	dayPart	N/A	N/A	String	Text
Day Part Number	dayPartNumber	N/A	N/A	Integer	Integer
Discount Amount	discAmt	N/A	Measure	Decimal2	Currency
Discount VAT Amount Extended Precision	discVatTtlExt	N/A	Measure	Decimal2	Currency
External Reference 1	extRef	N/A	N/A	String	Text
Family Group Name	familyGrp	Yes, iQuery only	N/A	String	Text
Family Group Number	familyGroupNum	N/A	N/A	Integer	Integer
Financial Period	financialPeriod	N/A	N/A	String	Text
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	String	Text
Financial Year	financialYear	N/A	N/A	String	Text
Gross Sales after Disc.	slsGrossAftDisc	N/A	Measure	Decimal2	Currency
Gross Sales before Disc.	slsGrossB4Disc	N/A	Measure	Decimal2	Currency
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Major Group Name	majorGrp	Yes, iQuery only	N/A	String	Text
Major Group Number	majorGroupNumber	N/A	N/A	Integer	Integer
Menu Item Name	itemName	N/A	N/A	String	Text
Menu Item Number	itemNum	N/A	N/A	Integer	Integer
Order Channel Name	orderChannelName	N/A	N/A	String	Text
Order Channel Number	orderChannelNum	N/A	N/A	Integer	Integer

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Order Type Name	orderName	Order Type	N/A	String	Text
Order Type Number	orderTypeNumber	N/A	N/A	Integer	Integer
Quarter Hour	qtrHr	Yes, iQuery only	N/A	Integer	Integer
Return Count	retCnt	N/A	Measure	Integer	Integer
Revenue Center Name	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Sales Count	slsCnt	N/A	Measure	Integer	Integer
Sales Net VAT/GST/Taxes	slsNetVatAftDisc	N/A	Measure	Decimal2	Currency
Sales Net VAT/GST/Taxes before Discount	slsNetVatB4Disc	N/A	Measure	Decimal2	Currency
Sales Total	slsTtl	N/A	Measure	Decimal2	Currency
Total VAT/GST/ Inclusive Taxes Amount	vatTtl	N/A	Measure	Decimal2	Currency
VAT Amount Extended Precision	vatTtlExt	N/A	Measure	Decimal2	Currency
Volume	vol	N/A	Measure	Decimal2	Currency

Operations Fixed Period Total

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
All Sales Net VAT/GST/Taxes	allSlsNetTax	N/A	Measure	Decimal2	Currency
Average Check	avgCheck	N/A	Measure	Decimal2	Currency
Budget Total	budgTtl	N/A	Measure	Decimal2	Currency
Business Date	busDate	Business Date	N/A	Date	Date
Business Hour	busHour	Yes, iQuery only	N/A	Integer	Integer
Checks Count	chksCnt	N/A	Measure	Integer	Integer
Comp Location	compLoc	N/A	N/A	Integer	Integer
Contribution Margin	contributionMargin	N/A	Measure	Decimal2	Currency
Cost of Goods Sold Amount	cosAmt	N/A	Measure	Decimal2	Currency

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Cost of Goods Sold Percent	prepCostPercent	N/A	Measure	Decimal2	Currency
Day of Week	dayofTheWeek	N/A	N/A	String	Text
Day Part Name	dayPart	N/A	N/A	String	Text
Day Part Number	dayPartNumber	N/A	N/A	Integer	Integer
Dining Time	dineTime	N/A	Measure	Integer	Integer
Discount Amount	discAmt	N/A	Measure	Decimal2	Currency
Error Correct Amount	errCorAmt	N/A	Measure	Decimal2	Currency
Error Correct Count	errCorCnt	N/A	Measure	Integer	Integer
Financial Period	financialPeriod	N/A	N/A	String	Text
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	String	Text
Financial Year	financialYear	N/A	N/A	String	Text
Gross Sales	grossSales	N/A	Measure	Decimal2	Currency
Gross Sales after Discount	slsGrossAftDisc	N/A	Measure	Decimal2	Currency
Gross Sales before Discount	slsGrossB4Disc	N/A	Measure	Decimal2	Currency
Guest Count	guestCnt	N/A	Measure	Integer	Integer
Last Years Checks	lastYrChks	N/A	Measure	Decimal2	Currency
Last Years Guests	lastYrGuest	N/A	Measure	Decimal2	Currency
Last Years Sales	lastYrsls	N/A	Measure	Decimal2	Currency
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Manager Void Amount	mgrVdAmt	N/A	Measure	Decimal2	Currency
Manager Void Count	mgrVdCnt	N/A	Measure	Integer	Integer
Net Sales	netSls	N/A	Measure	Decimal2	Currency
Number of Guests Finished	numGuestFinished	N/A	Measure	Integer	Integer
Number of Guests Present	numGuestsPresent	N/A	Measure	Integer	Integer
Number of Guests Seated	numGuestsSeated	N/A	Measure	Integer	Integer

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Order Channel Name	orderChannel Name	N/A	N/A	String	Text
Order Channel Number	orderChannel Num	N/A	N/A	Integer	Integer
Order Type Name	orderName	Order Type	N/A	String	Text
Order Type Number	orderTypeNu m	N/A	N/A	Integer	Integer
Parked Cars Count	parkCarCnt	N/A	Measure	Integer	Integer
Quarter Hour	qtrHr	Yes, iQuery only	N/A	Integer	Integer
Return Amount	retAmt	N/A	Measure	Decimal2	Currency
Return Count	retCnt	N/A	Measure	Integer	Integer
Revenue Center Name	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Sales Forecast	slsFcast	N/A	Measure	Decimal2	Currency
Sales Net VAT/GST/Taxes	slsNetInclTax	N/A	Measure	Decimal2	Currency
Speed of Service Time 1	timeSos1	N/A	Measure	Integer	Integer
Speed of Service Time 2	timeSos2	N/A	Measure	Integer	Integer
Speed of Service Time 3	timeSos3	N/A	Measure	Integer	Integer
Speed of Service Time 4	timeSos4	N/A	Measure	Integer	Integer
Spend per Guest	spendPerGuest	N/A	Measure	Decimal2	Currency
Table Count	tblCnt	N/A	Measure	Integer	Integer
Table Turns Count	tblTurnCnt	N/A	Measure	Integer	Integer
Tax Collected	taxCollected	N/A	Measure	Decimal2	Currency
Tax Credited	taxCreditedTot al	N/A	Measure	Decimal2	Currency
Total VAT/GST/ Inclusive Taxes Amount	inclTaxTtlAmo unt	N/A	Measure	Decimal2	Currency
Transaction Cancels Amount	xferCnclAmt	N/A	Measure	Decimal2	Currency
Transaction Cancels Count	xferCnclCnt	N/A	Measure	Decimal2	Currency
Void Amount	vdAmt	N/A	Measure	Decimal2	Currency
Void Count	vdCnt	N/A	Measure	Integer	Integer

Order Channel Fixed Period Total

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
All Sales Net VAT/GST/Taxes	allSlsNetTax	N/A	Measure	Decimal2	Currency
Average Check	avgCheck	N/A	Measure	Decimal2	Currency
Business Date	busDate	Business Date	N/A	Date	Date
Business Hour	busHour	Yes, iQuery only	N/A	Integer	Integer
Checks Count	chksCnt	N/A	Measure	Integer	Integer
Check Transfer-in Amount	checkxferintotal	N/A	Measure	Decimal2	Currency
Check Transfer-in Count	checkxferincount	N/A	Measure	Integer	Integer
Check Transfer Out Amount	checkxferouttotal	N/A	Measure	Decimal2	Currency
Check Transfer Out Count	checkxferoutcount	N/A	Measure	Integer	Integer
Comp Location	compLoc	N/A	N/A	Integer	Integer
Contribution Margin	contributionMargin	N/A	Measure	Decimal2	Currency
Cost of Goods Sold Amount	cogs	N/A	Measure	Decimal2	Currency
Credit Total	creditTotal	N/A	Measure	Decimal2	Currency
Day of Week	dayOfTheWeek	N/A	N/A	String	Text
Day Part Name	dayPart	N/A	N/A	String	Text
Day Part Number	dayPartNumber	N/A	N/A	Integer	Integer
Dining Time	dineTime	N/A	Measure	Integer	Integer
Discount Amount	discAmt	N/A	Measure	Decimal2	Currency
Error Correct Amount	errCorAmt	N/A	Measure	Decimal2	Currency
Error Correct Count	errCorCnt	N/A	Measure	Integer	Integer
Financial Period	financialPeriod	N/A	N/A	String	Text
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	String	Text
Financial Year	financialYear	N/A	N/A	String	Text
Gross Sales	grossSales	N/A	Measure	Decimal2	Currency
Gross Sales after Discount	slsGrossAftDisc	N/A	Measure	Decimal2	Currency

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Gross Sales before Discount	slsGrossB4Disc	N/A	Measure	Decimal2	Currency
Guest Count	guestCnt	N/A	Measure	Integer	Integer
Last Years Checks	lastYrChks	N/A	Measure	Decimal2	Currency
Last Years Guests	lastYrGuest	N/A	Measure	Decimal2	Currency
Last Years Sales	lastYrSls	N/A	Measure	Decimal2	Currency
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Manager Void Amount	mgrVdAmt	N/A	Measure	Decimal2	Currency
Manager Void Count	mgrVdCnt	N/A	Measure	Integer	Integer
Net Sales	netSls	N/A	Measure	Decimal2	Currency
Non-Revenue Total	nonRevTotal	N/A	Measure	Decimal2	Currency
Order Channel Name	orderChannel Name	Order Channel	N/A	String	Text
Order Channel Number	orderChannel Num	N/A	N/A	Integer	Integer
Order Type Name	orderName	Order Type	N/A	String	Text
Order Type Number	orderTypeNu m	N/A	N/A	Integer	Integer
Quarter Hour	qtrHr	Yes, iQuery only	N/A	Integer	Integer
Return Amount	retAmt	N/A	Measure	Decimal2	Currency
Return Count	retCnt	N/A	Measure	Integer	Integer
Revenue Center Name	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Sales Net VAT/GST/Taxes	slsNetTaxes	N/A	Measure	Decimal2	Currency
Service Charge Amount	srvcChrgTip	N/A	Measure	Decimal2	Currency
Spend per Guest	spendPerGuest	N/A	Measure	Decimal2	Currency
Table Turns Count	tblTurnCnt	N/A	Measure	Integer	Integer

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Tax Collected Total	taxCollectAmt	N/A	Measure	Decimal2	Currency
Total VAT/GST/ Inclusive Taxes Amount	inclTaxTtlAmount	N/A	Measure	Decimal2	Currency
Transaction Canceled Amount	xferCnclAmount	N/A	Measure	Decimal2	Currency
Transaction Canceled Count	xferCnclCnt	N/A	Measure	Integer	Integer
Void Amount	vdAmt	N/A	Measure	Decimal2	Currency
Void Count	vdCnt	N/A	Measure	Integer	Integer

Service Charge Fixed Period Total

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	N/A	N/A	Date	Date
Business Hour	busHour	Business Hour	N/A	Integer	Integer
Category Group 1 Name	catGrpName1	Yes, iQuery only	N/A	String	Text
Category Group 2 Name	catGrpName2	Yes, iQuery only	N/A	String	Text
Category Group 3 Name	catGrpName4	Yes, iQuery only	N/A	String	Text
Category Group 4 Name	catGrpName3	Yes, iQuery only	N/A	String	Text
Comp Location	compLoc	N/A	N/A	Integer	Integer
Day of Week	dayofTheWeek	N/A	N/A	String	String
Financial Period	financialPeriod	N/A	N/A	String	Text
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	String	String
Financial Year	financialYear	N/A	N/A	String	Text
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Quarter Hour	qtrHr	Yes, iQuery only	N/A	Integer	Integer
Revenue Center Name	rvc	Revenue Center	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Service Charge Amount	srvcChrgTip	N/A	Measure	Decimal2	Currency
Service Charge Count	srvcCnt	N/A	Measure	Integer	Integer
Service Charge Name	srvcName	N/A	N/A	String	Text
Service Charge Number	srvcNum	N/A	N/A	Integer	Integer
Tax Rate	taxRate	N/A	N/A	Decimal2	Currency
Total VAT/GST/ Inclusive Taxes Amount	inclTaxTtlAmo unt	N/A	Measure	Decimal2	Currency
Type	accType	N/A	N/A	Integer	Integer

Tender Fixed Period Total

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Auto Closed Tender	autoCloseTend er	N/A	N/A	Integer	Integer
Business Date	busDate	Business Date	N/A	Date	Date
Business Hour	busHour	Yes, for iQuery only	N/A	Integer	Integer
Category Group 1 Name	catGrpName1	Yes, for iQuery only	N/A	String	Text
Category Group 2 Name	catGrpName2	Yes, for iQuery only	N/A	String	Text
Category Group 3 Name	catGrpName3	Yes, for iQuery only	N/A	String	Text
Category Group 4 Name	catGrpName4	Yes, for iQuery only	N/A	String	Text
Comp Location	compLoc	N/A	N/A	Integer	Integer
Day of Week	dayofTheWeek	N/A	N/A	String	Text
Day Part	dayPart	N/A	N/A	String	Text
Day Part Number	dayPartNumbe r	N/A	N/A	Integer	Integer
Financial Period	financialPerio d	N/A	N/A	String	Text
Financial Quarter	financialQuart er	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	String	Text
Financial Year	financialYear	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Quarter Hour	qtrHr	Yes, for iQuery only	N/A	Integer	Integer
Revenue Center	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Tender Amount	tndrTtl	N/A	Measure	Decimal2	Currency
Tender Count	tndrCnt	N/A	Measure	Integer	Integer
Tender Name	tndrName	N/A	N/A	String	Text
Tender Number	tndrNum	N/A	N/A	Integer	Integer
Tender Subtype	tndrSubType	N/A	N/A	Integer	Integer
Tender Type	tndrType	N/A	N/A	Integer	Integer

Transactions and Transaction Details Subject Areas

The transaction and transaction details subject areas contain data at a check or check detail level for operations, menu item sales, discounts, tender, service charge, tax, or SPI payment details. It also includes non-sales details. The availability of some data points within the subject areas depends on features being used or configured within the POS system.

These subject areas are recommended if the data on your report needs to be broken down by check. The subject areas include:

- Discount Transaction Details
- Guest Checks
- Menu Item Transaction Details
- Non Sales Transaction Details
- Service Charge Transaction Details
- SPI Payment Details
- Tax Guest Checks
- Tender Media Transaction Details

Discount Transaction Details

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Authorizing Employee	authEmp	N/A	N/A	String	Text
Business Date	busDate	Business Date	N/A	Date	Date
Check Employee	chkEmp	N/A	N/A	String	Text
Check Line Count	chkLineCnt	N/A	N/A	Integer	Integer
Check Line Total	chkLineTtl	N/A	N/A	Decimal2	Currency
Check Number	chkNum	N/A	N/A	Integer	Integer
Day Part	dayPart	N/A	N/A	String	Text
Discount Location Name	discLoc	N/A	N/A	String	Text
Discount Master Name	discMasterName	N/A	N/A	String	Text
Discount Number	discNum	N/A	N/A	String	Text
Do Not Show Flag	doNotShowFlag	N/A	N/A	Integer	Integer
Error Correct Flag	errCorFlag	N/A	N/A	Integer	Integer
Guest Check Line Item ID	chkLineId	N/A	N/A	String	Text
Location	locName	N/A	N/A	String	Text
Meal Employee	mealEmp	N/A	N/A	String	Text
Order Channel Name	orderChannel Name	N/A	N/A	String	Text
Order Channel Number	orderChannel Num	N/A	N/A	Integer	Integer
Order Type Name	orderName	Order Type	N/A	String	Text
Quarter Hour	qtrHr	N/A	N/A	Integer	Integer
Reference Information Line 1	refInfo1	N/A	N/A	String	Text
Report Line Count	rptLineCnt	N/A	N/A	Integer	Integer
Report Line Total	rptLineTtl	N/A	N/A	Decimal2	Currency
Revenue Center	rvc	Revenue Center	N/A	String	Text
Seat Number	seat	N/A	N/A	Integer	Integer
Total VAT/GST/ Inclusive Taxes Amount	inclTaxTtlAmount	N/A	N/A	Decimal2	Currency
Transaction Date and Time	transDate	N/A	N/A	Date	Date
Transaction Employee	transEmp	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Void Flag	void	N/A	N/A	Integer	Integer
Void Reason Code	vdReason	N/A	N/A	Integer	Integer

Guest Checks

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Auto Closed Flag	autoClosedFlag	N/A	N/A	Integer	Integer
Check Information	chkInfo	N/A	N/A	String	Text
Check Number	chkNum	N/A	N/A	Integer	Integer
Check Reference	chkRef	N/A	N/A	String	Text
Check Total	chkTtl	N/A	Measure	Decimal2	Currency
Close Business Date	clsdBusDate	Business Date	N/A	Date	Date
Closed Date and Time	clsdTime	N/A	N/A	Date-time	Date-time
Close Quarter Hour Number	clsdQtrHr	Yes, iQuery only	N/A	Integer	Integer
Discount Amount	discAmt	N/A	Measure	Decimal2	Currency
Employee Number	empNum	N/A	N/A	Integer	Integer
Error Correct Amount	errCorAmt	N/A	Measure	Decimal2	Currency
Guest Count	guestCnt	N/A	Measure	Integer	Integer
Inclusive Tax Exempt Total	inclTaxExmpTtl	N/A	Measure	Decimal2	Currency
Item Count	ItemCnt	N/A	Measure	Integer	Integer
Last Name	surname	N/A	N/A	String	Text
Location	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Manager Void Amount	mgrVdAmt	N/A	Measure	Decimal2	Currency
Number of Service Rounds	numSrvcRnd	N/A	Measure	Integer	Integer
Open Business Date	opnBusDate	Business Date	N/A	Date	Date
Open Date and Time	opnTime	N/A	N/A	Date-time	Date-time
Open Quarter Hour Number	opnQtrHr	Yes, iQuery only	N/A	Integer	Integer

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Order Channel Name	orderChannel Name	N/A	N/A	String	Text
Order Channel Number	orderChannel Num	N/A	N/A	Integer	Integer
Order Type Name	orderName	Order Type	N/A	String	Text
Return Amount	retAmt	N/A	Measure	Decimal2	Currency
Revenue Center	rvc	Revenue Center	N/A	String	Text
Service Charge Amount	srvcChrgTip	N/A	Measure	Decimal2	Currency
Subtotal	subTtl	N/A	Measure	Decimal2	Currency
Table Group Number	tblGrpNum	N/A	N/A	Integer	Integer
Table Reference	tblRef	N/A	N/A	String	Text
Tax Amount	taxAmt	N/A	Measure	Decimal2	Currency
Tax Exempt	ExmptTax	N/A	Measure	Decimal2	Currency
Total Tip Amount	tipAmt	N/A	Measure	Decimal2	Currency
Total VAT/GST/ Inclusive Taxes Amount	inclTaxAmt	N/A	Measure	Decimal2	Currency
Transfer Status	xferStat	N/A	N/A	String	Text
Transfer To Check Number	xferChkNum	N/A	N/A	Integer	Integer
Void Amount	vdAmt	N/A	Measure	Decimal2	Currency

Menu Item Transaction Details

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Authorizing Employee	authEmp	N/A	N/A	String	Text
Business Date	busDate	Business Date	N/A	Date	Date
Check Employee	chkEmp	N/A	N/A	String	Text
Check Line Count	chkLineCnt	N/A	N/A	Integer	Integer
Check Line Total	chKLineTtl	N/A	N/A	Decimal2	Currency
Check Number	chkNum	N/A	N/A	Integer	Integer
Cost of Goods Sold	cogs	N/A	N/A	Decimal2	Currency
Day Part	dayPart	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Do Not Show Flag	doNotShowFla g	N/A	N/A	Integer	Integer
Error Correct Flag	errCorFlag	N/A	N/A	Integer	Integer
Family Group Name	familyGrp	Yes for iQuery only	N/A	String	Text
Family Group Number	familyGrpNum	N/A	N/A	String	Text
Guest Check Line Item ID	ChkLineId	N/A	N/A	String	Text
Location	locName	Location	N/A	String	Text
Major Group Name	majorGrp	Yes for iQuery only	N/A	String	Text
Major Group Number	majorGrpNum	N/A	N/A	String	Text
Menu Item External Reference 1	itemExtRef1	N/A	N/A	String	Text
Menu Item External Reference 2	itemExtRef2	N/A	N/A	String	Text
Menu Item Master Name	itemMasterNa me	N/A	N/A	String	Text
Menu Item Name	itemName	N/A	N/A	String	Text
Menu Item Number	itemNum	N/A	N/A	String	Text
Order Channel Name	orderChannel Name	N/A	N/A	String	Text
Order Channel Number	orderChannel Num	N/A	N/A	Integer	Integer
Order Type Name	orderName	Order Type	N/A	String	Text
Quarter Hour	qtrHr	Yes	N/A	Integer	Integer
Reference Information Line 1	refInfo1	N/A	N/A	String	Text
Report Line Count	rptLineCnt	N/A	N/A	Integer	Integer
Report Line Total	rptLineTtl	N/A	N/A	Decimal2	Currency
Return Flag	retFlag	N/A	N/A	Integer	Integer
Revenue Center	rvc	Revenue Center	N/A	String	Text
Sales Net VAT/GST/Taxes	salesNetTax	N/A	N/A	Decimal2	Currency
Seat Number	seat	N/A	N/A	Integer	Integer
Total VAT/GST/ Inclusive Taxes Amount	inclTaxTtlAmo unt	N/A	N/A	Decimal2	Currency

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Transaction Date and Time	transDate	N/A	N/A	Date	Date
Transaction Employee	transEmp	N/A	N/A	String	Text
Void Flag	void	N/A	N/A	Integer	Integer
Void Reason Code	vdReason	N/A	N/A	Integer	Integer
Weight	weight	N/A	N/A	Decimal2	Currency

Non Sales Transaction Details

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Amount	amt	N/A	N/A	Decimal2	Currency
Business Date	busDate	Business Date	N/A	Date	Date
Check Number	chkNum	N/A	N/A	Integer	Integer
Day Part	dayPart	N/A	N/A	String	Text
Location Name	locName	Location	N/A	String	Text
Non Sales ID	noSlsNum	N/A	Measure	String	Text
Non Sales Type	noSlsType	N/A	Measure	Integer	Integer
Quarter Hour	qtrHr	Yes, iQuery only	N/A	Integer	Integer
Reference Information Line 1	refInfo1	N/A	N/A	String	Text
Revenue Center Name	rvc	Revenue Center	N/A	String	Text
Tender/Media Location Name	tndrMedLocName	N/A	N/A	String	Text
Transaction Date and Time	transDate	N/A	Measure	Date	Date
Workstation	wsNum	N/A	Measure	Integer	Integer

Service Charge Transaction Details

Data Permissions: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Authorizing Employee	authEmp	N/A	N/A	String	Text
Business Date	busDate	Business Date	N/A	Date	Date

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Check Employee	chkEmp	N/A	N/A	String	Text
Check Line Count	chkLineCnt	N/A	N/A	Integer	Integer
Check Line Total	chkLineTtl	N/A	N/A	Decimal2	Currency
Check Number	chkNum	N/A	N/A	Integer	Integer
Day Part	dayPart	N/A	N/A	String	Text
Do Not Show Flag	doNotShowFla g	N/A	N/A	Integer	Integer
Error Correct Flag	errCorflag	N/A	N/A	Integer	Integer
Guest Check Line Item ID	chkLineId	N/A	N/A	String	Text
Location	locName	Location	N/A	String	Text
Order Channel Name	orderChannel Name	N/A	N/A	String	Text
Order Channel Number	orderChannel Num	N/A	N/A	Integer	Integer
Order Type Name	orderName	Order Type	N/A	String	Text
Quarter Hour	qtrHr	Yes, for iQuery only	N/A	Integer	Integer
Reference Info Line 1	refInfo1	N/A	N/A	String	Text
Report Line Count	rptLineCnt	N/A	N/A	Integer	Integer
Report Line Total	rptLineTtl	N/A	N/A	Decimal2	Currency
Revenue Center	rvc	Revenue Center	N/A	String	Text
Seat Number	seat	N/A	N/A	Integer	Integer
Service Charge Location Name	srvcChrgLoc	N/A	N/A	String	Text
Service Charge Master Name	srvcChrgName	N/A	N/A	String	Text
Service Charge Number	srvcChrgNum	N/A	N/A	String	Text
Total VAT/GST/ Inclusive Taxes Amount	inclTaxTtlAmo unt	N/A	N/A	Decimal2	Currency
Transaction Date and Time	transDate	N/A	N/A	Date	Date
Transaction Employee	transEmp	N/A	N/A	String	Text
Void Flag	void	N/A	N/A	Integer	Integer
Void Reason Code	vdReason	N/A	N/A	Integer	Integer

SPI Payment Details

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Authorization Code	authCode	N/A	N/A	String	Text
Business Date	busDate	Business Date	N/A	Date	Date
Business Hour	busHour	Yes, for iQuery only	N/A	Integer	Integer
Card Alias	crdAlias	N/A	N/A	String	Text
Card Present Flag	crdPrsntFlag	Yes, for iQuery only	N/A	String	Text
Check Number	chkNum	Yes, for iQuery only	N/A	Integer	Integer
Comp Location	compLoc	N/A	N/A	Integer	Integer
Day of Week	dayofTheWeek	N/A	N/A	String	Text
Day Part Name	dayPart	N/A	N/A	String	Text
Day Part Number	dayPartNumbe r	N/A	N/A	Integer	Integer
Employee Name	employeeNam e	N/A	N/A	String	Text
Employee Number	empNum	N/A	N/A	Integer	Integer
Entry Mode Name	entryModeNa me	N/A	N/A	String	Text
Entry Mode Number	entryModeNu m	N/A	N/A	Integer	Integer
Financial Period	financialPerio d	N/A	N/A	String	Text
Financial Quarter	financialQuart er	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	Integer	Integer
Financial Year	financialYear	N/A	N/A	String	Text
First Name	forename	N/A	N/A	String	Text
Last Name	surname	N/A	N/A	String	Text
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Offline Flag	offlineFlag	N/A	N/A	String	Text
Payment Service Provider Reference	pspRef	Yes, for iQuery only	N/A	String	Text
Payment Type	pymntType	Yes, for iQuery only	N/A	String	Text
Quarter Hour	qtrHr	Yes, for iQuery only	N/A	Integer	Integer

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Retrieval Reference Number	rrn	N/A	N/A	String	Text
Revenue Center Name	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Sequence Number	SeqNum	N/A	N/A	String	Text
Tender Name	tndrName	N/A	N/A	String	Text
Tender Number	tndrNum	N/A	N/A	Integer	Integer
Terminal ID	termID	N/A	N/A	String	Text
Tip Amount	tipAmt	N/A	Measure	Decimal2	Currency
Transaction Amount	transAmt	N/A	Measure	Decimal2	Currency
Transaction Date Time	transDateTime	N/A	N/A	Date-Time	Date-Time
Workstation Name	wsName	N/A	N/A	String	Text
Workstation Number	wsNum	N/A	N/A	Integer	Integer

Tax Guest Checks

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Check Number	chkNum	N/A	N/A	Integer	Integer
Check Reference	chkRef	N/A	N/A	String	Text
Check Total	chkTtl	N/A	Measure	Decimal2	Currency
Closed Business Date	clsdBusDate	Yes, for iQuery only	N/A	Date	Date
Closed Date and Time	clsdTime	N/A	N/A	Date-Time	Date-Time
Closed Quarter Hour Number	clsdQtrHr	Yes, for iQuery only	N/A	Integer	Integer
Discount Amount	discAmt	N/A	Measure	Decimal2	Currency
Employee Name	employeeNam e	N/A	N/A	String	Text
Employee Number	empNum	N/A	N/A	Integer	Integer
First Name	forename	N/A	N/A	String	Text
Last Name	surname	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Open Business Date	opnBusDate	Yes, for iQuery only	N/A	Date	Date
Open Date and Time	opnTime	N/A	N/A	Date-Time	Date-Time
Open Quarter Hour Number	opnQtrHr	Yes, for iQuery only	N/A	Integer	Integer
Order Channel Name	orderChannel Name	N/A	N/A	String	Text
Order Channel Number	orderChannel Num	N/A	N/A	Integer	Integer
Order Type Name	orderName	Order Type	N/A	String	Text
Revenue Center Name	rvc	Revenue Center	N/A	String	Text
Service Charges Amount	servChrgTip	N/A	Measure	Decimal2	Currency
Subtotal	subTtl	N/A	Measure	Decimal2	Currency
Table Group Number	tblGrpNum	N/A	N/A	Integer	Integer
Table Reference	tblRef	N/A	N/A	String	Text
Tax Amount	taxAmt	N/A	Measure	Decimal2	Currency
Tax Exempt Sales	taxSlsExmpt	N/A	Measure	Decimal2	Currency
Tax Name	nameTax	N/A	N/A	String	Text
Tax Number	numTax	N/A	N/A	Integer	Integer
Tax Rate	taxRate	N/A	N/A	Decimal2	Currency
Tax Type	taxType	N/A	N/A	Integer	Integer

Tender Media Transaction Details

Data Permissions: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Authorizing Employee	authEmp	N/A	N/A	String	Text
Business Date	busDate	Business Date	N/A	Date	Date
Check Employee	chkEmp	N/A	N/A	String	Text
Check Line Count	chkLineCnt	N/A	N/A	Integer	Integer
Check Line Total	chkLineTtl	N/A	N/A	Decimal2	Currency
Check Number	chkNum	N/A	N/A	Integer	Integer
Day Part	dayPart	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Error Correct Flag	errCorFlag	N/A	N/A	Integer	Integer
Guest Check Line Item ID	chkLineId	N/A	N/A	String	Text
Location	locName	Location	N/A	String	Text
Meal Employee	mealEmp	N/A	N/A	String	Text
Order Channel Name	orderChannel Name	N/A	N/A	String	Text
Order Channel Number	orderChannel Num	N/A	N/A	Integer	Integer
Order Type Name	orderName	Order Type	N/A	String	Text
Quarter Hour	qtrHr	Yes, for iQuery only	N/A	Integer	Integer
Reference Information Line 1	refInfo1	N/A	N/A	String	Text
Reference Information Line 2	refInfo2	N/A	N/A	String	Text
Report Line Count	rptLineCnt	N/A	N/A	Integer	Integer
Report Line Total	rptLineTtl	N/A	N/A	Decimal2	Currency
Revenue Center	rvc	Revenue Center	N/A	String	Text
Seat Number	seat	N/A	N/A	Integer	Integer
Tender/Media Location Name	tndrMedLocNa me	N/A	N/A	String	Text
Tender/Media Master Name	tndrMedMast Name	N/A	N/A	String	Text
Tender/Media Number	tndrMedNum	N/A	N/A	String	Text
Transaction Date and Time	transDate	N/A	N/A	Date	Date
Transaction Employee	transEmp	N/A	N/A	String	Text
Void Flag	void	N/A	N/A	Integer	Integer
Void Reason Code	vdReason	N/A	N/A	Integer	Integer

Common Currency Subject Areas

The common currency subject areas include sales and operations data that is calculated in a common currency. A common currency configuration is recommended if you are operating stores in multiple countries with different local currencies and you still need to understand your enterprise's revenue in a single, common currency. The availability of data in these subject areas depends on the configuration of the common currency feature in Reporting and Analytics. The subject areas include:

- Discount Daily Total (Common Currency)
- Labor Category Daily Total (Common Currency)
- Menu Item Daily Total (Common Currency)
- Operations Daily Total (Common Currency)
- Operation Fixed Period Total (Common Currency)
- Tender Daily Total (Common Currency)

Discount Daily Total (Common Currency)

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	Business Date	N/A	Date	Date
Category Group 1 Name	catGrpName1	Yes, for iQuery only	N/A	String	Text
Category Group 2 Name	catGrpName2	Yes, for iQuery only	N/A	String	Text
Category Group 3 Name	catGrpName3	Yes, for iQuery only	N/A	String	Text
Category Group 4 Name	catGrpName4	Yes, for iQuery only	N/A	String	Text
Comp Location	compLoc	N/A	N/A	Integer	Integer
Day of Week	dayofTheWeek	N/A	N/A	String	Text
Discount Amount	discAmt	N/A	Measure	Decimal2	Currency
Discount Count	discCnt	N/A	Measure	Integer	Integer
Discount Name	dicsName	N/A	N/A	String	Text
Discount Number	discNum	N/A	N/A	Integer	Integer
Financial Period	financialPerio d	N/A	N/A	String	Text
Financial Quarter	financialQuart er	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	Integer	Integer
Financial Year	financialYear	N/A	N/A	String	Text
Inclusive Tax Forgiven	inclTaxForgive n	N/A	Measure	Decimal2	Currency
Location	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Revenue Center	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer

Labor Category Daily Total (Common Currency)

Data Permissions: **General Labor**, **Hourly Pay Rates**, and **Salaried Pay Rates**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	Business Date	N/A	Date	Date
Labor Category Name	labCat	N/A	N/A	String	Text
Labor Category Number	labCatNum	N/A	N/A	Integer	Integer
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Regular Hours	regHrs	N/A	Measure	Decimal2	Currency
Regular Pay	regPay	N/A	Measure	Decimal2	Currency
Theoretical Hours	theoHrs	N/A	Measure	Decimal2	Currency
Total Overtime Hours	otHrsTtl	N/A	Measure	Decimal2	Currency
Total Overtime Pay	otPayTtl	N/A	Measure	Decimal2	Currency

Menu Item Daily Total (Common Currency)

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Average Cost	avgCost	N/A	Measure	Decimal2	Currency
Average Price	avgPrice	N/A	Measure	Decimal2	Currency
Business Date	busDate	Business Date	N/A	Date	Date
Category Group 1 Name	catGrpName1	Yes, for iQuery only	N/A	String	Text
Category Group 2 Name	catGrpName2	Yes, for iQuery only	N/A	String	Text
Category Group 3 Name	catGrpName3	Yes, for iQuery only	N/A	String	Text
Category Group 4 Name	catGrpName4	Yes, for iQuery only	N/A	String	Text
Comp Location	compLoc	N/A	N/A	Integer	Integer
Cost of Goods Sold Amount	cogs	N/A	Measure	Decimal2	Currency
Cost of Goods Sold Percent	prepCostPerce nt	N/A	Measure	Decimal2	Currency

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Day of Week	dayofTheWeek	N/A	N/A	String	Text
Discount Amount	discAmt	N/A	Measure	Decimal2	Currency
Discount VAT Amount Extended Precision	discVatTtlExt	N/A	Measure	Decimal2	Currency
External Reference 1	extRef	N/A	N/A	String	Text
Family Group Name	familyGrp	Yes, for iQuery only	N/A	String	Text
Family Group Number	familyGroupNum	N/A	N/A	Integer	Integer
Financial Period	financialPeriod	N/A	N/A	String	Text
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	String	Text
Financial Year	financialYear	N/A	N/A	String	Text
Gross Sales after Discount	slsGrossAftDisc	N/A	Measure	Decimal2	Currency
Gross Sales before Discount	slsGrossB4Disc	N/A	Measure	Decimal2	Currency
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Major Group Name	majorGrp	Yes, for iQuery only	N/A	String	Text
Major Group Number	majorGroupNum	N/A	N/A	Integer	Integer
Menu Item Name	itemName	N/A	N/A	String	Text
Menu Item Number	itemNum	N/A	N/A	Integer	Integer
Order Channel Name	orderChannelName	N/A	N/A	String	Text
Order Channel Number	orderChannelNum	N/A	N/A	Integer	Integer
Order Type Name	orderName	Order Type	N/A	String	Text
Order Type Number	orderTypeNum	N/A	N/A	Integer	Integer
Return Count	retCnt	N/A	Measure	Integer	Integer
Revenue Center Name	rvc	Revenue Center	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Sales Count	slsCnt	N/A	Measure	Integer	Integer
Sales less Item Discount	slsTtl	N/A	Measure	Decimal2	Currency
Sales Net VAT/GST/Taxes	slsNetVatAftDisc	N/A	Measure	Decimal2	Currency
Sales Net VAT/GST/Taxes before Discount	slsNetVatB4Disc	N/A	Measure	Decimal2	Currency
Total VAT/GST/ Inclusive Taxes Amount	vatTtl	N/A	Measure	Decimal2	Currency
VAT Amount Extended Precision	vatTtlExt	N/A	Measure	Decimal2	Currency
Volume	vol	N/A	Measure	Decimal2	Currency

Operations Daily Total (Common Currency)

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
All Sales Net VAT/GST/Taxes	allSlsNetTax	N/A	Measure	Decimal2	Currency
Average Check	avgCheck	N/A	Measure	Decimal2	Decimal2
Budget Total	budgTtl	N/A	Measure	Decimal2	Decimal2
Business Date	busDate	Business Date	N/A	Date	Date
Carry Over Amount	caryOvrAmt	N/A	Measure	Decimal2	Currency
Carry Over Count	caryOvrCnt	N/A	Measure	Integer	Integer
Check Closed Amount	chkClsdAmt	N/A	Measure	Decimal2	Currency
Check Closed Count	chkClsdCnt	N/A	Measure	Integer	Integer
Check Open Amount	chkOpnAmt	N/A	Measure	Decimal2	Currency
Check Open Count	chkOpnCnt	N/A	Measure	Integer	Integer
Checks Count	chksCnt	N/A	Measure	Integer	Integer
Check Transfer-in Amount	chkXferInAmt	N/A	Measure	Decimal2	Currency

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Check Transfer-in Count	chkXferInCnt	N/A	Measure	Integer	Integer
Check Transfer Out Amount	chkXferOutAmt	N/A	Measure	Decimal2	Currency
Check Transfer Out Count	chkXferOutCnt	N/A	Measure	Integer	Integer
Comp Location	compLoc	N/A	N/A	Integer	Integer
Contribution Margin	contributionMargin	N/A	Measure	Decimal2	Currency
Cost of Goods Sold Amount	cosAmt	N/A	Measure	Decimal2	Currency
Cost of Goods Sold Percent	prepCostPercent	N/A	Measure	Decimal2	Currency
Credit Total	creditTotal	N/A	Measure	Decimal2	Currency
Day of Week	dayOfTheWeek	N/A	N/A	String	Text
Dining Time	dineTime	N/A	Measure	Integer	Integer
Drive Thru Time	drvThruTime	N/A	Measure	Integer	Integer
Error Correct Amount	errCorAmt	N/A	Measure	Decimal2	Currency
Error Correct Count	errCorCnt	N/A	Measure	Integer	Integer
Financial Period	financialPeriod	N/A	N/A	String	Text
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	String	Text
Financial Year	financialYear	N/A	N/A	String	Text
Grand Total	grandTtl	N/A	Measure	Decimal2	Currency
Gross Sales	grossSales	N/A	Measure	Decimal2	Currency
Gross Sales after Discount	slsGrossAftDisc	N/A	Measure	Decimal2	Currency
Gross Sales before Discount	slsGrossB4Disc	N/A	Measure	Decimal2	Currency
Guest Count	guestCnt	N/A	Measure	Integer	Integer
High Temperature	tempHigh	N/A	N/A	Integer	Integer
Item Discount Amount	itemDiscAmt	N/A	Measure	Decimal2	Currency
Labor Cost	laborCost	N/A	Measure	Decimal2	Currency
Labor Cost Percentage	laborCostPercent	N/A	Measure	Decimal2	Currency
Last Years Checks	lastYrChks	N/A	Measure	Decimal2	Currency
Last Years Guests	lastYrGuest	N/A	Measure	Decimal2	Currency

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Last Years Sales	lastYrSls	N/A	Measure	Decimal2	Currency
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Low Temperature	tempLow	N/A	N/A	Integer	Integer
Manager Void Amount	mgrVdAmt	N/A	Measure	Decimal2	Currency
Manager Void Count	mgrVdCnt	N/A	Measure	Integer	Integer
Net Sales	netSls	N/A	Measure	Decimal2	Currency
Non-Revenue Total	nonRevTotal	N/A	N/A	Decimal2	Currency
Non Taxable Sales Total	nonTaxSlsTtl	N/A	Measure	Decimal2	Currency
Operating Margin	operatingMargin	N/A	Measure	Decimal2	Currency
Over Short	ovrShrt	N/A	Measure	Decimal2	Currency
Parked Cars Count	parkCarCnt	N/A	Measure	Integer	Integer
Prepared Items Count	prepItemCnt	N/A	Measure	Integer	Integer
Regular Hours	regHrs	N/A	Measure	Decimal2	Currency
Regular Pay	regPay	N/A	Measure	Decimal2	Currency
Return Amount	retamt	N/A	Measure	Decimal2	Currency
Return Count	retCnt	N/A	Measure	Integer	Integer
Revenue Center Name	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Rounding Total	roundTtl	N/A	Measure	Decimal2	Currency
Sales Forecast	slsFcast	N/A	Measure	Decimal2	Currency
Sales Net VAT/GST/Taxes	slsNetInclTax	N/A	Measure	Decimal2	Currency
Service Charge Amount	srvcChrgTip	N/A	Measure	Decimal2	Currency
Speed of Service Time 1	timeSos1	N/A	Measure	Integer	Integer
Speed of Service Time 2	timeSos2	N/A	Measure	Integer	Integer
Speed of Service Time 3	timeSos3	N/A	Measure	Integer	Integer

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Speed of Service Time 4	timeSos4	N/A	Measure	Integer	Integer
Spend per Guest	spendPerGuest	N/A	N/A	Decimal2	Currency
Subtotal Discount Amount 1	subDiscTtl1	N/A	Measure	Decimal2	Currency
Subtotal Discount Amount 2	subDiscTtl2	N/A	Measure	Decimal2	Currency
Subtotal Discount Amount 3	subDiscTtl3	N/A	Measure	Decimal2	Currency
Subtotal Discount Amount 4	subDiscTtl4	N/A	Measure	Decimal2	Currency
Tables Count	tblCnt	N/A	Measure	Integer	Integer
Table Turns Count	tblTurnCnt	N/A	Measure	Integer	Integer
Tax Collected Total	taxCollectAmt	N/A	Measure	Decimal2	Currency
Tax Credited	taxCreditedTotal	N/A	Measure	Decimal2	Currency
Tax Exempt Sales	taxExmptSlsTtl	N/A	Measure	Decimal2	Currency
Total Overtime Hours	otHrsTtl	N/A	Measure	Decimal2	Currency
Total Overtime Pay	otPayTtl	N/A	Measure	Decimal2	Currency
Total Prep Time	timeToPrep	N/A	Measure	Integer	Integer
Total Revenue	totalRevenue	N/A	Measure	Decimal2	Currency
Total VAT/GST/ Inclusive Taxes Amount	inclTaxTtlAmount	N/A	Measure	Decimal2	Currency
Transaction Canceled Amount	xferCnclAmount	N/A	Measure	Decimal2	Currency
Transaction Canceled Count	xferCnclCntt	N/A	Measure	Integer	Integer
Void Amount	vdAmt	N/A	Measure	Decimal2	Currency
Void Count	vdCnt	N/A	Measure	Integer	Integer
Waiting Parties Count	waitCnt	N/A	Measure	Integer	Integer
Wait Time	timeToWait	N/A	Measure	Integer	Integer
Weather Condition	weather	N/A	N/A	String	Text

Operation Fixed Period Total (Common Currency)

Data Permission: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Budget Total	budgTtl	N/A	Measure	Decimal2	Currency
Business Date	busDate	Business Date	N/A	Date	Date
Business Hour	busHour	Yes, iQuery only	N/A	Integer	Integer
Checks Count	chksCnt	N/A	Measure	Integer	Integer
Comp Location	compLoc	N/A	N/A	Integer	Integer
Cost of Goods Sold Amount	cosAmt	N/A	Measure	Decimal2	Currency
Day of Week	dayOfTheWeek	N/A	N/A	String	Text
Day Part	dayPart	N/A	N/A	String	Text
Day Part Number	dayPartNumber	N/A	N/A	Integer	Integer
Dining Time	dineTime	N/A	Measure	Integer	Integer
Discount Amount	discAmt	N/A	Measure	Decimal2	Currency
Error Correct Amount	errCorAmt	N/A	Measure	Decimal2	Currency
Error Correct Count	errCorCnt	N/A	Measure	Integer	Integer
Financial Period	financialPeriod	N/A	N/A	String	Text
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	String	Text
Financial Year	financialYear	N/A	N/A	String	Text
Guest Count	guestCnt	N/A	Measure	Integer	Integer
Last Years Checks	lastYrChks	N/A	Measure	Decimal2	Currency
Last Years Guests	lastYrGuest	N/A	Measure	Decimal2	Currency
Last Years Sales	lastYrsls	N/A	Measure	Decimal2	Currency
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Manager Void Amount	mgrVdAmt	N/A	Measure	Decimal2	Currency
Manager Void Count	mgrVdCnt	N/A	Measure	Integer	Integer
Net Sales	netSls	N/A	Measure	Decimal2	Currency
Order Channel Name	orderChannel Name	N/A	N/A	String	Text
Order Channel Number	orderChannel Num	N/A	N/A	Integer	Integer
Order Type Name	orderName	Order Type	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Order Type Number	orderTypeNum	N/A	N/A	Integer	Integer
Parked Cars Count	parkCarCnt	N/A	Measure	Integer	Integer
Quarter Hour	qtrHr	Yes, iQuery only	N/A	Integer	Integer
Return Amount	retAmt	N/A	Measure	Decimal2	Currency
Return Count	retCnt	N/A	Measure	Integer	Integer
Revenue Center Name	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Sales Forecast	slsFcast	N/A	Measure	Decimal2	Currency
Speed of Service Time 1	timeSos1	N/A	Measure	Integer	Integer
Speed of Service Time 2	timeSos2	N/A	Measure	Integer	Integer
Speed of Service Time 3	timeSos3	N/A	Measure	Integer	Integer
Speed of Service Time 4	timeSos4	N/A	Measure	Integer	Integer
Table Count	tblCnt	N/A	Measure	Integer	Integer
Table Turns Count	tblTurnCnt	N/A	Measure	Integer	Integer
Void Amount	vdAmt	N/A	Measure	Decimal2	Currency
Void Count	vdCnt	N/A	Measure	Integer	Integer

Tender Daily Total (Common Currency)

Data Permissions: **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Auto Closed Tender	autoCloseTender	N/A	N/A	Integer	Integer
Business Date	busDate	Business Date	N/A	Date	Date
Category Group 1 Name	catGrpName1	Yes, for iQuery only	N/A	String	Text
Category Group 2 Name	catGrpName2	Yes, for iQuery only	N/A	String	Text
Category Group 3 Name	catGrpName3	Yes, for iQuery only	N/A	String	Text
Category Group 4 Name	catGrpName4	Yes, for iQuery only	N/A	String	Text
Comp Location	compLoc	N/A	N/A	Integer	Integer

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Day of Week	dayOfTheWeek	N/A	N/A	String	Text
Financial Period	financialPeriod	N/A	N/A	String	Text
Financial Quarter	financialQuarter	N/A	N/A	String	Text
Financial Week	financialWeek	N/A	N/A	String	Text
Financial Year	financialYear	N/A	N/A	String	Text
Location Name	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Location Open Date	locOpenDate	N/A	N/A	Date	Date
Revenue Center Name	rvc	Revenue Center	N/A	String	Text
Revenue Center Number	rvcNum	N/A	N/A	Integer	Integer
Revenue Center Type	rvcType	N/A	N/A	Integer	Integer
Tender Amount	tndrTtl	N/A	Measure	Decimal2	Currency
Tender Count	tndrCnt	N/A	Measure	Integer	Integer
Tender Name	tndrName	N/A	N/A	String	Text
Tender Number	tndrNum	N/A	N/A	Integer	Integer
Tender Sub Type	tndrSubType	N/A	N/A	Integer	Integer
Tender Type	tndrType	N/A	N/A	Integer	Integer

Labor Details and Employee Information Subject Areas

The labor details and employee information subject areas include data related to Labor Management configuration, such as job rates and employees, as well as time card and other pay information. If you have Labor Management, you should use the subject areas that include **Enterprise** in the title. The subject areas include:

- Employees
- Employee Job Rates
- Enterprise Employees
- Enterprise Employee Job Rates
- Enterprise Time Cards
- Enterprise Time Card Adjustments
- Other Pay
- Other Pay Adjustments

- Time Cards
- Time Card Adjustments

Employees

Data Permissions: **POS Definitions**, **Employee Identifiable Information**, **Sensitive Identifiable Information**, and **General Labor**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Address Line 1	addr1	N/A	N/A	String	Text
Address Line 2	addr2	N/A	N/A	String	Text
Age Certification Date	ageCertDt	N/A	N/A	Date	Date
Age Certification Number	ageCert	N/A	N/A	String	Text
Alien Admin Number	alienNum	N/A	N/A	String	Text
Bank 1 Account Number	bnkAccNum1	N/A	N/A	String	Text
Bank 1 Account Type	bnkAccType1	N/A	N/A	String	Text
Bank 1 Amount	bnkAmt1	N/A	N/A	String	Text
Bank 1 Amount Type	bnkAmtType1	N/A	N/A	String	Text
Bank 1 ID	bnkId1	N/A	N/A	String	Text
Bank 1 Route Code	bnkRt1	N/A	N/A	String	Text
Bank 2 Account Number	bnkAccNum2	N/A	N/A	String	Text
Bank 2 Account Type	bnkAccType2	N/A	N/A	String	Text
Bank 2 Amount	bnkAmt2	N/A	N/A	String	Text
Bank 2 Amount Type	bnkAmtType2	N/A	N/A	String	Text
Bank 2 ID	bnkId2	N/A	N/A	String	Text
Bank 2 Route Code	bnkRt2	N/A	N/A	String	Text
City	addrCity	N/A	N/A	String	Text
City Additional Withholdings	cityAddtlWiHo	N/A	N/A	String	Text
City Tax Exempt Flag	cityExmptFlg	N/A	N/A	String	Text
Country	addrCountry	N/A	N/A	String	Text
County	addrCounty	N/A	N/A	String	Text
Date Of Birth	dob	N/A	N/A	Date	Date
Earned Income Credit	earnedIncCred	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Effective From	effectFrom	N/A	N/A	Date	Date
Effective To	effectTo	N/A	N/A	Date	Date
Email	empEmail	N/A	N/A	String	Text
Emergency Contact Address	emergAddr	N/A	N/A	String	Text
Emergency Contact Name	emergContNa me	N/A	N/A	String	Text
Emergency Contact Phone Number	emergContPhN um	N/A	N/A	String	Text
Emergency Contact Relation	emergContRel	N/A	N/A	String	Text
Employee Name	employeeNam e	N/A	N/A	String	Text
Employee Number	EmpNum	N/A	N/A	String	Text
Ethnicity	empEthnicity	N/A	N/A	String	Text
Exclude EU Directives	exclEuDir	N/A	N/A	String	Text
Expiration Date	expDate	N/A	N/A	Date	Date
Fax Number	faxNum	N/A	N/A	String	Text
Fed Additional Withholding	fedAddtlWiHo	N/A	N/A	String	Text
Federal Exemptions	fedExmpt	N/A	N/A	String	Text
Federal Marital Status	fedMaritalStat us	N/A	N/A	String	Text
Federal Tax Exempt Flag	fedExmptFlg	N/A	N/A	String	Text
First Name	forename	N/A	N/A	String	Text
Gender	custGender	N/A	N/A	String	Text
Hire Date	empHireDate	N/A	N/A	Date	Date
Hire Status	empHireStat	N/A	N/A	String	Text
I9 ID 1 Expiration Date	i9Exp1	N/A	N/A	Date	Date
I9 ID 1 Number	i9Num1	N/A	N/A	String	Text
I9 ID 1 Type	i9Type1	N/A	N/A	String	Text
I9 ID 2 Expiration Date	i9Exp2	N/A	N/A	Date	Date
I9 ID 2 Number	i9Num2	N/A	N/A	String	Text
I9 ID2 Type	i9Type2	N/A	N/A	String	Text
I9 ID Category	I9Cat	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
I9 Resident Status	i9ResStatus	N/A	N/A	String	Text
Last Name	surname	N/A	N/A	String	Text
Last Updated Date	updatedDate	N/A	N/A	Date	Date
Live On Property	liveOnProp	N/A	N/A	String	Text
Location	locName	Location	N/A	String	Text
Middle Name	midName	N/A	N/A	String	Text
Name Prefix	namePrefix	N/A	N/A	String	Text
Name Suffix	nameSuffix	N/A	N/A	String	Text
Other Phone Number	otherPhNum	N/A	N/A	String	Text
Part Time Flag	partTimeEmp	N/A	N/A	String	Text
Payroll ID	payId	N/A	N/A	String	Text
Phone Number	phoneNum	N/A	N/A	String	Text
Registered Disable Number	regDisNum	N/A	N/A	String	Text
Rehire	rehireEmp	N/A	N/A	String	Text
Rehire Date	empRehireDate	N/A	N/A	Date	Date
Salary	empSal	N/A	N/A	String	Text
Salary Type	empSalType	N/A	N/A	String	Text
SSN	empSsn	N/A	N/A	String	Text
State	addrState	N/A	N/A	String	Text
State Additional Withholdings	stateAddtlWiho	N/A	N/A	String	Text
State Exemptions	stateExmpt	N/A	N/A	String	Text
State Marital Status	stateMaritalStat	N/A	N/A	String	Text
State Tax Exempt Flag	stateExmptFlg	N/A	N/A	String	Text
Temporary Employee Flag	tempEmp	N/A	N/A	String	Text
Termination Date	termDate	N/A	N/A	Date	Date
Termination Note	termNote	N/A	N/A	String	Text
Termination Reason Code 1	termReason1	N/A	N/A	String	Text
Termination Reason Code 2	termReason2	N/A	N/A	String	Text
Termination Reason Code 3	termReason3	N/A	N/A	String	Text
Termination Reason Code 4	termReason4	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
User Defined Alpha 1	userA1	N/A	N/A	String	Text
User Defined Alpha 2	userA2	N/A	N/A	String	Text
User Defined Alpha 3	userA3	N/A	N/A	String	Text
User Defined Alpha 4	usera4	N/A	N/A	String	Text
User Defined Alpha 5	userA5	N/A	N/A	String	Text
User Defined Alpha 6	userA6	N/A	N/A	String	Text
User Defined Alpha 7	userA7	N/A	N/A	String	Text
User Defined Alpha 8	userA8	N/A	N/A	String	Text
User Defined Numeric 1	userNum1	N/A	N/A	String	Text
User Defined Numeric 2	userNum2	N/A	N/A	String	Text
User Defined Numeric 3	userNum3	N/A	N/A	String	Text
User Defined Numeric 4	userNum4	N/A	N/A	String	Text
Work Permit Expiration Date	workPermExp	N/A	N/A	Date	Date
Work Permit Number	workPermNum	N/A	N/A	String	Text
Zip Code	postCode	N/A	N/A	String	Text

Employee Job Rates

Data Permissions: **General Labor**, **Employee Identifiable Information**, **Hourly Pay Rates**, and **Salaried Pay Rates**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Effective From	effectFrom	N/A	N/A	Date	Date
Employee Name	employeeName	N/A	N/A	String	Text
Employee Payroll ID	empPayroId	N/A	N/A	String	Text
First Name	forename	N/A	N/A	String	Text
Job Code Name	jobName	N/A	N/A	String	Text
Job Code Number	jobNum	N/A	N/A	Integer	Integer
Last Name	surname	N/A	N/A	String	Text
Location	locName	Location	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Primary Job Flag	jobPrimary	N/A	N/A	String	Text
Regular Pay Rate	jobRegRate	N/A	N/A	String	Text
Skill Level	skilllvl	N/A	N/A	String	Text

Enterprise Employees

Data Permissions: **POS Definitions**, **Employee Identifiable Information**, **General Labor**, and **Sensitive Identifiable Information**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Address Line 1	addr1	N/A	N/A	String	Text
Address Line 2	addr2	N/A	N/A	String	Text
Age Certification Date	ageCertDt	N/A	N/A	Date	Date
Age Certification Number	ageCert	N/A	N/A	String	Text
Alien Admin Number	alienNum	N/A	N/A	String	Text
Bank 1 Account Number	bnkAccNum1	N/A	N/A	String	Text
Bank 1 Account Type	bnkAccType1	N/A	N/A	String	Text
Bank 1 Amount	bnkAmt1	N/A	N/A	String	Text
Bank 1 Amount Type	bnkAmtType1	N/A	N/A	String	Text
Bank 1 ID	bnkId1	N/A	N/A	String	Text
Bank 1 Route Code	bnkRt1	N/A	N/A	String	Text
Bank 2 Account Number	bnkAccNum2	N/A	N/A	String	Text
Bank 2 Account Type	bnkAccType2	N/A	N/A	String	Text
Bank 2 Amount	bnkAmt2	N/A	N/A	String	Text
Bank 2 Amount Type	bnkAmtType2	N/A	N/A	String	Text
Bank 2 ID	entBnkId2	N/A	N/A	String	Text
Bank 2 Route Code	bnkRt2	N/A	N/A	String	Text
City	addrCity	N/A	N/A	String	Text
City Additional Withholdings	cityAddtlWiHo	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
City Tax Exempt Flag	cityExmptFlg	N/A	N/A	String	Text
Country	addrCountry	N/A	N/A	String	Text
County	addrCounty	N/A	N/A	String	Text
Date of Birth	dob	N/A	N/A	Date	Date
Earned Income Credit	earnedIncCred	N/A	N/A	String	Text
Effective From	effectFrom	N/A	N/A	Date	Date
Effective To	effectTo	N/A	N/A	Date	Date
Email	empEmail	N/A	N/A	String	Text
Emergency Contact Address	emergAddr	N/A	N/A	String	Text
Emergency Contact Name	emergContNa me	N/A	N/A	String	Text
Emergency Contact Phone Number	emergContPhN um	N/A	N/A	String	Text
Emergency Contact Relation	emergContRel	N/A	N/A	String	Text
Employee Name	employeeNam e	N/A	N/A	String	Text
Ethnicity	empEthnicity	N/A	N/A	String	Text
Exclude EU Directives	exclEuDir	N/A	N/A	String	Text
Expiration Date	expDate	N/A	N/A	Date	Date
Fax Number	faxNum	N/A	N/A	String	Text
Federal Additional Withholdings	fedAddtlWiHo	N/A	N/A	String	Text
Federal Exemptions	fedExmpt	N/A	N/A	String	Text
Federal Marital Status	fedMaritalStat us	N/A	N/A	String	Text
Federal Tax Exempt Flag	fedExmptFlg	N/A	N/A	String	Text
First Name	forename	N/A	N/A	String	Text
Full Time Foreign Student	fTimeStudent	N/A	N/A	String	Text
Gender	custGender	N/A	N/A	String	Text
Hire Date	empHireDate	N/A	N/A	Date	Date
Hire Status	empHireStat	N/A	N/A	String	Text
I9 ID 1 Expiration Date	i9Exp1	N/A	N/A	Date	Date
I9 ID 1 Number	i9Num1	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
I9 ID 1 Type	i9Type1	N/A	N/A	String	Text
I9 ID 2 Expiration Date	i9Exp2	N/A	N/A	Date	Date
I9 ID 2 Number	i9Num2	N/A	N/A	String	Text
I9 ID 2 Type	i9Type2	N/A	N/A	String	Text
I9 ID Category	I9Cat	N/A	N/A	String	Text
I9 Resident Status	i9ResStatus	N/A	N/A	String	Text
Inactive From	fromInactDt	N/A	N/A	Date	Date
Inactive Reason Code	inactReason	N/A	N/A	String	Text
Inactive To	toInactTo	N/A	N/A	Date	Date
Last Name	surname	N/A	N/A	String	Text
Last Updated Date and Time	updateByTime	N/A	N/A	Date-time	Date-time
Live On Property	liveOnProp	N/A	N/A	String	Text
Location	locName	Location	N/A	String	Text
Middle Name	midName	N/A	N/A	String	Text
Minor	minorEmp	N/A	N/A	String	Text
Name Prefix	namePrefix	N/A	N/A	String	Text
Name Suffix	nameSuffix	N/A	N/A	String	Text
Other Phone Number	otherPhNum	N/A	N/A	String	Text
Part Time Flag	partTimeEmp	N/A	N/A	String	Text
Part Time Foreign Student	pTimeStudent	N/A	N/A	String	Text
Payroll ID	payId	N/A	N/A	String	Text
Phone Number	phoneNum	N/A	N/A	String	Text
Registered Disable Number	regDisNum	N/A	N/A	String	Text
Rehire	rehireEmp	N/A	N/A	String	Text
Rehire Date	empRehireDat e	N/A	N/A	Date	Date
Salary	empSal	N/A	N/A	String	Text
Salary Type	empSalType	N/A	N/A	String	Text
SSN	empSsn	N/A	N/A	String	Text
State	addrState	N/A	N/A	String	Text
State Additional Withholdings	stateAddtlWih o	N/A	N/A	String	Text
State Exemptions	stateExmpt	N/A	N/A	String	Text
State Marital Status	stateMaritalSta t	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
State Tax Exempt Flag	stateExmptFlg	N/A	N/A	String	Text
Temporary Employee Flag	tempEmp	N/A	N/A	String	Text
Termination Date	termDate	N/A	N/A	Date	Date
Termination Note	termNote	N/A	N/A	String	Text
Termination Reason Code 1	termReason1	N/A	N/A	String	Text
Termination Reason Code 2	termReason2	N/A	N/A	String	Text
Termination Reason Code 3	termReason3	N/A	N/A	String	Text
Termination Reason Code 4	termReason4	N/A	N/A	String	Text
Termination Status	termStat	N/A	N/A	String	Text
User Defined Alpha 1	userA1	N/A	N/A	String	Text
User Defined Alpha 2	userA2	N/A	N/A	String	Text
User Defined Alpha 3	userA3	N/A	N/A	String	Text
User Defined Alpha 4	userA4	N/A	N/A	String	Text
User Defined Alpha 5	userA5	N/A	N/A	String	Text
User Defined Alpha 6	userA6	N/A	N/A	String	Text
User Defined Alpha 7	userA7	N/A	N/A	String	Text
User Defined Alpha 8	userA8	N/A	N/A	String	Text
User Defined Numeric 1	userNum1	N/A	N/A	String	Text
User Defined Numeric 2	userNum2	N/A	N/A	String	Text
User Defined Numeric 3	userNum3	N/A	N/A	String	Text
User Defined Numeric 4	userNum4	N/A	N/A	String	Text
Work Permit Expiration Date	workPermExp	N/A	N/A	Date	Date
Work Permit Number	workPermNum	N/A	N/A	String	Text
Zip Code	postCode	N/A	N/A	String	Text

Enterprise Employee Job Rates

Data Permissions: **POS Definitions**, **Employee Identifiable Information**, **General Labor**, **Hourly Pay Rates**, and **Salaried Pay Rates**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Effective From	effectFrom	N/A	N/A	Date	Date
Effective To	effectTo	N/A	N/A	Date	Date
Employee Name	employeeNam e	N/A	N/A	String	Text
Employee Payroll ID	empPayroId	N/A	N/A	String	Text
First Name	forename	N/A	N/A	String	Text
Home Store Name	empHomeStor e	N/A	N/A	String	Text
Job Code Name	jobName	N/A	N/A	String	Text
Job Code Number	jobNum	N/A	N/A	Integer	Integer
Last Name	surname	N/A	N/A	String	Text
Location	locName	Location	N/A	String	Text
Primary Job	jobPrimary	N/A	N/A	String	Text
Regular Pay Rate	jobRegRate	N/A	N/A	String	Text
Skill Level	skillLvl	N/A	N/A	String	Text

Enterprise Time Cards

Data Permissions: **General Labor**, **Employee Time Card Details**, **Hourly Pay Rates**, **Salaried Pay Rates**, **Sales and Operations**, **Employee Identifiable Information**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	Business Date	N/A	Date	Date
Cash Tip Amount	cashTipAmt	N/A	Measure	Decimal2	Currency
Charged Sales Amount	chrgdSls	N/A	Measure	Decimal2	Currency
Charge Tip Amount	chrgTipAmt	N/A	Measure	Decimal2	Currency
Clock In Date and Time	clckInTime	N/A	N/A	Date-time	Date-time
Clock In Status	clckInStat	N/A	N/A	Integer	Integer
Clock Out Date and Time	clckOutTime	N/A	N/A	Date-time	Date-time
Clock Out Status	clckOutStat	N/A	N/A	Integer	Integer
Commission	commTtl	N/A	Measure	Decimal2	Currency
Employee Name	employeeNam e	N/A	N/A	String	Text
Employee Payroll ID	empPayroId	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
First Name	forename	N/A	N/A	String	Text
Gross Food and Beverage Sales	grossFBSls	N/A	Measure	Decimal2	Currency
Indirect Tips Paid Amount	indirectTipAmt	N/A	Measure	Decimal2	Currency
Job Code Name	jobName	N/A	N/A	String	Text
Last Name	surname	N/A	N/A	String	Text
Location	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Overtime 1 Hours	otHrs1	N/A	Measure	Decimal2	Currency
Overtime 1 Pay	otPay1	N/A	Measure	Decimal4	Numeric
Overtime 2 Hours	otHrs2	N/A	Measure	Decimal2	Currency
Overtime 2 Pay	otPay2	N/A	Measure	Decimal4	Numeric
Overtime 3 Hours	otHrs3	N/A	Measure	Decimal2	Currency
Overtime 3 Pay	otPay3	N/A	Measure	Decimal4	Numeric
Overtime 4 Hours	otHrs4	N/A	Measure	Decimal2	Currency
Overtime 4 Pay	otPay4	N/A	Measure	Decimal4	Numeric
Point of Sale Reset Date and Time	posResetTime	N/A	N/A	Date-time	Date-time
Regular Hours	regHrs	N/A	Measure	Decimal2	Currency
Regular Pay	regPay	N/A	Measure	Decimal4	Numeric
Regular Pay Rate	jobRegRate	N/A	Measure	Decimal2	Currency
Revenue Center	rvc	Revenue Center	N/A	String	Text
Service Charge Amount	srvcChrgTip	N/A	Measure	Decimal2	Currency
SSN	empSsn	N/A	N/A	String	Text
Total Hours	ttlHrs	N/A	Measure	Decimal2	Currency
Total Pay	ttlPay	N/A	Measure	Decimal2	Currency
Total Tip	ttlTip	N/A	Measure	Decimal2	Currency
User Defined Alpha 1	userA1	N/A	N/A	String	Text
User Defined Alpha 2	userA2	N/A	N/A	String	Text
User Defined Alpha 3	userA3	N/A	N/A	String	Text
User Defined Alpha 4	userA4	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
User Defined Alpha 5	userA5	N/A	N/A	String	Text
User Defined Numeric 1	userNum1	N/A	N/A	String	Text
User Defined Numeric 2	userNum2	N/A	N/A	String	Text
User Defined Numeric 3	userNum3	N/A	N/A	String	Text
User Defined Numeric 4	userNum4	N/A	N/A	String	Text
User Defined Numeric 5	userNum5	N/A	N/A	String	Text

Enterprise Time Card Adjustments

Data Permissions: **General Labor**, **Employee Time Card Details**, **Hourly Pay Rates**, **Salaried Pay Rates**, **Sales and Operations**, and **Employee Identifiable Information**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Adjustment Date and Time	adjTime	N/A	N/A	Date-time	Date-time
Business Date	busDate	Business Date	N/A	Date	Date
Employee Name	employeeName	N/A	N/A	String	Text
Employee Payroll ID	empPayroId	N/A	N/A	String	Text
First Name	forename	N/A	N/A	String	Text
Last Name	surname	N/A	N/A	String	Text
Location	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Previous Charged Sales Amount	prevChrgSls	N/A	Measure	Decimal2	Currency
Previous Charged Tips Amount	prevChrgTip	N/A	Measure	Decimal2	Currency
Previous Clock In Date and Time	prevClckInTime	N/A	N/A	Date-time	Date-time
Previous Clock Out Date and Time	prevClckOutTime	N/A	N/A	Date-time	Date-time
Previous Commission	prevCommTtl	N/A	Measure	Decimal2	Currency
Previous Gross Food and Beverage Sales	prevGrossFBSls	N/A	Measure	Decimal2	Currency

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Previous Indirect Tips Paid Amount	prevIndirectTip	N/A	Measure	Decimal2	Currency
Previous Job Code Name	prevJobName	N/A	N/A	String	Text
Previous Revenue Center	prevRvc	N/A	N/A	String	Text
Previous Service Charge Tip Amount	prevSrvcChrgTip	N/A	Measure	Decimal2	Currency
Reason	adjReason	N/A	N/A	String	Text
SSN	empSsn	N/A	N/A	String	Text
User Defined Alpha 1	userA1	N/A	N/A	String	Text
User Defined Alpha 2	userA2	N/A	N/A	String	Text
User Defined Alpha 3	userA3	N/A	N/A	String	Text
User Defined Alpha 4	userA4	N/A	N/A	String	Text
User Defined Alpha 5	userA5	N/A	N/A	String	Text
User Defined Numeric 1	userNum1	N/A	N/A	String	Text
User Defined Numeric 2	userNum2	N/A	N/A	String	Text
User Defined Numeric 3	userNum3	N/A	N/A	String	Text
User Defined Numeric 4	userNum4	N/A	N/A	String	Text
User Defined Numeric 5	userNum5	N/A	N/A	String	Text

Other Pay

Data Permissions: **General Labor**, **Hourly Pay Rates**, **Salaried Pay Rates**, and **Employee Identifiable Information**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	Business Date	N/A	Date	Date
Closed	clsd	N/A	N/A	String	Text
Description	descript	N/A	N/A	String	Text
Employee Name	employeeName	N/A	N/A	Text	Text
Employee Number	empPosRef	N/A	N/A	String	Text
Employee Payroll ID	empPayroId	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
First Name	forename	N/A	N/A	String	Text
Job Code Name	jobName	N/A	N/A	String	Text
Job Code Number	jobNum	N/A	N/A	Integer	Integer
Last Name	surname	N/A	N/A	String	Text
Location Name	locName	Location	N/A	String	Text
Pay Amount	empPayAmnt	N/A	N/A	Decimal4	Numeric
Pay Hours	empPayHrs	N/A	N/A	Decimal2	Currency
Pay Rate	empPayRate	N/A	N/A	Decimal4	Numeric
Pay Type	empPayType	N/A	N/A	String	Text
Transaction ID	transId	N/A	N/A	String	Text

Other Pay Adjustments

Data Permissions: **General Labor**, **Hourly Pay Rates**, **Salaried Pay Rates**, and **Employee Identifiable Information**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Adjustment Date and Time	adjDate	N/A	N/A	Date-time	Date-time
Business Date	busDate	Business Date	N/A	Date	Date
Employee Name	employeeNam e	N/A	N/A	String	Text
Employee Number	empPosRef	N/A	N/A	String	Text
Employee Payroll ID	empPayroId	N/A	N/A	String	Text
First Name	forename	N/A	N/A	String	Text
Last Name	surname	N/A	N/A	String	Text
Location Name	locName	Location	N/A	String	Text
Manager Name	mgr	N/A	N/A	String	Text
Previous Description	prevDescript	N/A	N/A	String	Text
Previous Job Code Name	prevJobName	N/A	N/A	String	Text
Previous Job Code Number	prevJobNum	N/A	N/A	Integer	Integer
Previous Pay Amount	prevEmpPayA mt	N/A	N/A	Decimal4	Numeric
Previous Pay Hours	prevEmpPayH rs	N/A	N/A	Decimal2	Currency
Previous Pay Rate	prevEmpPayR ate	N/A	N/A	Decimal4	Numeric
Previous Pay Type	prevEmpPayT ype	N/A	N/A	String	Text

Time Cards

Data Permissions: **General Labor**, **Employee Time Card Details**, **Hourly Pay Rates**, **Salaried Pay Rates**, **Sales and Operations**, and **Employee Identifiable Information**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	Business Date	N/A	Date	Date
Cash Tip Amount	cashTipAmt	N/A	Measure	Decimal2	Currency
Charge Sales Amount	chrgdSls	N/A	Measure	Decimal2	Currency
Charge Tip Amount	chrgTipAmt	N/A	Measure	Decimal2	Currency
Clock In Date and Time	clckInTime	N/A	N/A	Date-time	Date-time
Clock In Status	clckInStat	N/A	N/A	Integer	Integer
Clock Out Date and Time	clckOutTime	N/A	N/A	Date-time	Date-time
Clock Out Status	clckOutStat	N/A	N/A	Integer	Integer
Commission	commTtl	N/A	Measure	Decimal2	Currency
Employee Name	employeeName	N/A	N/A	String	Text
Employee Number	empPosRef	N/A	N/A	String	Text
Employee Payroll ID	empPayroId	N/A	N/A	String	Text
First Name	forename	N/A	N/A	String	Text
Gross Food and Beverage Sales	grossFbSls	N/A	Measure	Decimal2	Currency
Indirect Tips Paid Amount	indirectTipAmt	N/A	Measure	Decimal2	Currency
Job Code Name	jobName	N/A	N/A	String	Text
Job Code Number	jobNum	N/A	N/A	Integer	Integer
Last Name	surname	N/A	N/A	String	Text
Location	locName	Location	N/A	String	Text
Location Number	locPosRef	N/A	N/A	String	Text
Overtime 1 Hours	otHrs1	N/A	Measure	Decimal2	Currency
Overtime 1 Pay	otPay1	N/A	Measure	Decimal4	Numeric
Overtime 2 Hours	otHrs2	N/A	Measure	Decimal2	Currency
Overtime 2 Pay	otPay2	N/A	Measure	Decimal4	Numeric
Overtime 3 Hours	otHrs3	N/A	Measure	Decimal2	Currency
Overtime 3 Pay	otPay3	N/A	Measure	Decimal4	Numeric

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Overtime 4 Hours	otHrs4	N/A	Measure	Decimal2	Currency
Overtime 4 Pay	otPay4	N/A	Measure	Decimal4	Numeric
Point of Sale Reset Date and Time	posResetTime	N/A	N/A	Date-time	Date-time
Regular Hours	regHrs	N/A	Measure	Decimal2	Currency
Regular Pay	regPay	N/A	Measure	Decimal4	Numeric
Regular Pay Rate	jobRegRate	N/A	Measure	Decimal2	Currency
Revenue Center	rvc	Revenue Center	N/A	String	Text
Service Charge Amount	srvcChrgTip	N/A	Measure	Decimal2	Currency
Total Hours	ttlHrs	N/A	Measure	Decimal2	Currency
Total Pay	ttlPay	N/A	Measure	Decimal2	Currency
Total Tip	ttlTip	N/A	Measure	Decimal2	Currency

Time Card Adjustments

Data Permissions: **General Labor**, **Employee Time Card Details**, **Hourly Pay Rates**, **Salaried Pay Rates**, **Sales and Operations**, and **Employee Identifiable Information**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Adjustment Date and Time	adjTime	N/A	N/A	Date-Time	Date-Time
Business Date	busDate	Business Date	N/A	Date	Date
Employee Name	employeeName	N/A	N/A	String	Text
Employee Number	employeePosRef	N/A	N/A	String	Text
Employee Payroll ID	empPayroId	N/A	N/A	String	Text
First Name	forename	N/A	N/A	String	Text
Last Name	surname	N/A	N/A	String	Text
Location	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Previous Charged Sales Amount	prevChrgSls	N/A	Measure	Decimal2	Currency
Previous Charged Tips Amount	prevChrgTip	N/A	Measure	Decimal2	Currency
Previous Clock In Date and Time	prevClckInTime	N/A	N/A	Date-Time	Date-Time

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Previous Clock Out Date and Time	prevClckOutTime	N/A	N/A	Date-Time	Date-Time
Previous Commission	prevCommTtl	N/A	Measure	Decimal2	Currency
Previous Gross Food and Beverage Sales	prevGrossFbSls	N/A	Measure	Decimal2	Currency
Previous Indirect Tips Paid	prevIndirectTip	N/A	Measure	Decimal2	Currency
Previous Job Code Name	prevJobName	N/A	N/A	String	Text
Previous Job code Number	prevJobNum	N/A	N/A	Integer	Integer
Previous Revenue Center	prevRvc	N/A	N/A	String	Text
Previous Service Charge Tip Amount	prevSrvcChrgTip	N/A	Measure	Decimal2	Currency
Reason	adjReason	N/A	N/A	String	Text

Inventory Management Subject Areas

The inventory daily totals subject area includes daily aggregated totals related to Inventory Management transactions. Data in this subject is only available for customers subscribed to the Inventory Management cloud service and requires the daily totals export to be configured in Inventory Management.

Inventory Daily Total

Data Permissions: **General Inventory** and **Theoretical Stock on Hand**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Allowance Usage Quantity	allowanceUsgQty	N/A	Measure	Decimal4	Numeric
Allowance Waste Quantity	allowanceWstQty	N/A	Measure	Decimal4	Numeric
Business Date	busDate	Business Date	N/A	Date	Date
Cost Center Name	costCenter	N/A	N/A	String	Text
Counted On Date and Time	countedDate	N/A	N/A	Date-time	Date-time
Inventory Item Name	invItem	N/A	N/A	String	Text
Inventory Item Number	invItemNum	N/A	N/A	Integer	Integer

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Location	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
On Hand Quantity	invOnHandQty	N/A	Measure	Decimal4	Numeric
Physical Count Quantity	physicalCntQty	N/A	Measure	Decimal4	Numeric
Price	invPrice	N/A	Measure	Decimal2	Currency
Production Receipt Quantity	prodRcptQty	N/A	Measure	Decimal4	Numeric
Production Receipt Value	prodRcptVal	N/A	Measure	Decimal4	Numeric
Production Usage Quantity	prodUsgQty	N/A	Measure	Decimal4	Numeric
Receipt Quantity	rcptQty	N/A	Measure	Decimal4	Numeric
Receipt Value	rcptVal	N/A	Measure	Decimal4	Numeric
Transfer In Quantity	xferInQty	N/A	Measure	Decimal4	Numeric
Transfer In Value	xferInVal	N/A	Measure	Decimal4	Numeric
Transfer Out Quantity	xferOutQty	N/A	Measure	Decimal4	Numeric
Usage Quantity	usgQty	N/A	Measure	Decimal4	Numeric
Variance Quantity	varQty	N/A	Measure	Decimal4	Numeric

Gift and Loyalty Subject Areas

This group of subject areas includes data points related to Gift and Loyalty transactions and customer details. Data in these subject areas is only available for customers subscribed to the Gift and Loyalty Cloud Service. The subject areas include:

- Gift and Loyalty
- Gift and Loyalty Account
- Gift and Loyalty CA Customer Program
- Gift and Loyalty CA Email Offers
- Gift and Loyalty CA Email Sent Opened
- Gift and Loyalty Coupon
- Gift and Loyalty Coupon Types
- Gift and Loyalty Customer Detail
- Gift and Loyalty Customer Overview
- Gift and Loyalty Customer Summary

- Gift and Loyalty Customer Transaction Summary
- Gift and Loyalty Redeemed Coupon
- Gift and Loyalty Transaction

Gift and Loyalty

Data Permission: **Gift and Loyalty General**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Description	descript	N/A	N/A	String	Text
Name	progName	N/A	N/A	String	Text
Points Name	ptsName	N/A	N/A	String	Text
Type	accType	N/A	N/A	Integer	Integer

Gift and Loyalty Account

Data Permissions: **Gift and Loyalty General** and **Customer Identifiable Information**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Account Number	accPos	N/A	N/A	String	Text
Account Status	accStat	Yes, for iQuery only	N/A	Integer	Integer
Activate Or Issue Date	activeIssueDate	N/A	N/A	Date	Date
Balance Total	balTtl	N/A	N/A	Decimal2	Currency
Bonus Amount	bonusTtl	N/A	N/A	Decimal2	Currency
Card Rule	progCardRule	N/A	N/A	String	Text
Credit Amount	credTtl	N/A	N/A	Decimal2	Currency
Currency ISO Code	currIsoCode	N/A	N/A	String	Text
Debit Amount	debTtl	N/A	N/A	Decimal2	Currency
First Transaction Business Date	firstTransBusDate	N/A	N/A	Date	Date
Initial Credit Total	initCredTtl	N/A	N/A	Decimal2	Currency
Initial Load Date	initLoadDate	N/A	N/A	Date	Date
Last Name	surname	N/A	N/A	String	Text
Last Transaction Business Date	lastTransBusDate1	N/A	N/A	Date	Date
Lifetime Credit Amount	lifetimeTtl	N/A	N/A	Decimal2	Currency
Lifetime Discount Amount	lifetimeDisc	N/A	N/A	Decimal2	Currency
Miscellaneous 1 Total	miscTtl1	N/A	N/A	Decimal2	Currency

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Miscellaneous 2 Total	miscTtl2	N/A	N/A	Decimal2	Currency
Miscellaneous 3 Total	miscTtl3	N/A	N/A	Decimal2	Currency
Miscellaneous 4 Total	miscTtl4	N/A	N/A	Decimal2	Currency
Month to Date Credit Amount	mtdCredTtl	N/A	N/A	Decimal2	Currency
PIN	AccPin	N/A	N/A	String	Text
Points Start Date	ptStartDate	N/A	N/A	Date	Date
Program	progName	Yes, for iQuery only	N/A	String	Text
Reconciliation Location	reconLoc	Yes, for iQuery only	N/A	String	Text
Reserved Total	resTtl	N/A	N/A	Decimal2	Currency
Transfer Account Number	xferToPos	N/A	N/A	String	Text
Type	AccType	Yes, for iQuery only	N/A	Integer	Integer
Valid Until Date	validDate	N/A	N/A	Date	Date
Year to Date Credit Amount	ytdCredTtl	N/A	N/A	Decimal2	Currency
Year to Date Discount Amount	ytdDiscTtl	N/A	N/A	Decimal2	Currency

Gift and Loyalty CA Customer Program

Data Permissions: **Gift and Loyalty General**, **Sales and Operations**, and **Customer Identifiable Information**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Account Balance Total	accBalTtl	N/A	N/A	Decimal2	Currency
Account Expired	accExp	N/A	N/A	Date	Date
Account Lifetime Credit Amount	accLifeCredTtl	N/A	N/A	Decimal2	Currency
Account Status	accStat	N/A	N/A	Integer	Integer
Account Transfer to Customer Number	accXferPos	N/A	N/A	String	Text
Account Year To Date Credit Amount	accYtdCredTtl	N/A	N/A	Decimal2	Currency

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
CA Customer ID	caCustNum	N/A	N/A	String	Text
Card Rule Name	crdRule	N/A	N/A	String	Text
Category	origCustPosRef	N/A	N/A	String	Text
Customer Number	custPosRef	N/A	N/A	String	Text
First Transaction Business Date	firstTransBusDate	N/A	N/A	Date	Date
Last Transaction Date	lastTransBusDate	N/A	N/A	Date	Date
Net Sales	netSls	N/A	N/A	Decimal2	Currency
Program	progName	N/A	N/A	String	Text
Transactions Count	transCnt	N/A	N/A	Integer	Integer

Gift and Loyalty CA Email Offers

Data Permissions: **Gift and Loyalty General** and **Customer Identifiable Information**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Category	cat	N/A	N/A	String	Text
Coupon Code	coupNum	N/A	N/A	String	Text
Coupon Type	coupoType	N/A	N/A	String	Text
Description	descript	N/A	N/A	String	Text
Effective From	effectFrom	N/A	N/A	Date	Date
Effective To	effectTo	N/A	N/A	Date	Date
Name	offerName	N/A	N/A	String	Text
Type	accType	N/A	N/A	String	Text

Gift and Loyalty CA Email Sent Opened

Data Permission: **Gift and Loyalty General**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
CA Customer ID	caCustNum	N/A	N/A	String	Text
Campaign Name	campaign	Yes, for iQuery only	N/A	String	Text
Coupon Code	coupNum	Yes, for iQuery only	N/A	String	Text
Coupon Serial Number	coupSerial	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Last Name	surname	N/A	N/A	String	Text
Offer Name	name	Yes, for iQuery only	N/A	String	Text
Promotion	promo	Yes, for iQuery only	N/A	String	Text
Received Date and Time	receiveDate	N/A	N/A	Date	Date
Sent Date and Time	sentDate	N/A	N/A	Date	Date
Text1	caText1	N/A	N/A	String	Text
Text2	caText2	N/A	N/A	String	Text

Gift and Loyalty Coupon

Data Permissions: **Gift and Loyalty General** and **Customer Identifiable Information**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Account Number	accPos	N/A	N/A	String	Text
Coupon Code	coupNum	Yes, for iQuery only	N/A	String	Text
Coupon Type	coupType	Yes, for iQuery only	N/A	String	Text
Created Host Date and Time	createHostDate	Yes, for iQuery only	N/A	Date	Date
Created Local Date and Time	createLocalDate	N/A	N/A	Date	Date
Customer Full Name	custFullName	N/A	N/A	String	Text
Issued Host Date and Time	issueHostDate	N/A	N/A	Date	Date
Issued Local Date and Time	issueLocalDate	N/A	N/A	Date	Date
Issued Location	issueLoc	Location	N/A	String	Text
Issued State	issueState	N/A	N/A	Integer	Integer
Promotion	promo	N/A	N/A	String	Text
Serial Number	serNum	N/A	N/A	String	Text
Valid Until Date	validDate	N/A	N/A	Date	Date

Gift and Loyalty Coupon Types

Data Permission: **Gift and Loyalty General**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Coupon Code	coupNum	N/A	N/A	String	Text
Coupon Name	coupName	N/A	N/A	String	Text
Description	descript	N/A	N/A	String	Text

Gift and Loyalty Customer Detail

Data Permissions: **Gift and Loyalty General** and **Customer Identifiable Information**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Address Line 1	addr1	N/A	N/A	String	Text
Address Line 2	addr2	N/A	N/A	String	Text
Anniversary Date	custAnni	N/A	N/A	Date	Date
Birth Day of Month	birthMonthDay	N/A	N/A	Integer	Integer
Birth Month	custbirthMonth	N/A	N/A	Integer	Integer
CA Customer ID	caCustNum	N/A	N/A	String	Text
Cell Phone Number	custMobNum	N/A	N/A	String	Text
City	addrCity	N/A	N/A	String	Text
Concierge	conc	N/A	N/A	Integer	Integer
County	addrCounty	N/A	N/A	String	Text
Created Date	dateCreated	N/A	N/A	Date	Date
Customer Number	custPosRef	N/A	N/A	String	Text
Date of Birth	custBthDay	Yes, for iQuery only	N/A	Date	Date
Distance	dist	N/A	N/A	Decimal2	Currency
Email	custEmail	N/A	N/A	String	Text
Email Channel Deliverable	emailChnlDel	N/A	N/A	Integer	Integer
Email Channel Status	emailChnlStat	N/A	N/A	Integer	Integer
First Name	forename	N/A	N/A	String	Text
First Transaction Business Date	firstTransBusDate	Yes, for iQuery only	N/A	Date	Date
Gender	custGender	N/A	N/A	String	Text
Home Phone Channel Deliverable	homePhDel	N/A	N/A	Integer	Integer
Home Phone Channel Status	homePhStat	N/A	N/A	Integer	Integer
Home Phone Number	homePhNum	N/A	N/A	String	Text
Is Cleaned	clean	N/A	N/A	Integer	Integer

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Is Deduped	dedup	N/A	N/A	Integer	Integer
Last Name	surname	N/A	N/A	String	Text
Last Transaction Date	lastTransBusDate	Yes, for iQuery only	N/A	Date	Date
Last Updated By	updateBy	N/A	N/A	String	Text
Last Updated Date	updatedDate	N/A	N/A	Date	Date
Latitude	lat	N/A	N/A	String	Text
Longitude	long	N/A	N/A	String	Text
Mail Channel Deliverable	mailChnlDel	N/A	N/A	Integer	Integer
Mail Channel Status	mailChnlStat	N/A	N/A	Integer	Integer
Meeting Planner	meetPlanner	N/A	N/A	Integer	Integer
Middle Name	midName	N/A	N/A	String	Text
Miscellaneous Field 1	misc1	N/A	N/A	String	Text
Miscellaneous Field 2	misc2	N/A	N/A	String	Text
Miscellaneous Field 3	misc3	N/A	N/A	String	Text
Miscellaneous Field 4	misc4	N/A	N/A	String	Text
Name Prefix	namePrefix	N/A	N/A	String	Text
Name Suffix	nameSuffix	N/A	N/A	String	Text
Other Channel Deliverable	otherChnlDel	N/A	N/A	Integer	Integer
Parent Customer First Name	parCustFirstName	N/A	N/A	String	Text
Parent Customer Last Name	parCustLastName	N/A	N/A	String	Text
Parent Customer Number	parCustPos	N/A	N/A	String	Text
Parent Customer Relationship	parCustRelat	N/A	N/A	Integer	Integer
Password	pwd	N/A	N/A	String	Text
Password Hint	pwdHint	N/A	N/A	String	Text
PMA Code	pma	N/A	N/A	String	Text
Reissue New Customer Kit Counter	reissueCustKitCnt	N/A	N/A	Integer	Integer
Reissue New Customer Kit Date	reissueCustKitDate	N/A	N/A	Date	Date

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Replace Card Counter	replaceCrdCnt	N/A	N/A	Integer	Integer
Replace Card Date	replaceCrdDt	N/A	N/A	Date	Date
Sign-up Date	dateOfSignup	N/A	N/A	Date	Date
Sign-up Location	signupLoc	N/A	N/A	String	Text
State	addrState	N/A	N/A	String	Text
Use For Test Email	useTestEmail	N/A	N/A	Integer	Integer
User Defined Alpha 1	userA1	N/A	N/A	String	Text
User Defined Alpha 2	userA2	N/A	N/A	String	Text
User Defined Numeric 1	userNum1	N/A	N/A	Decimal2	Currency
User Defined Numeric 2	userNum2	N/A	N/A	Decimal2	Currency
User ID Number	userId	N/A	N/A	String	Text
User Name	custUserName	N/A	N/A	String	Text
Work Phone Number	workPhNum	N/A	N/A	String	Text
Zip Code	postCode	N/A	N/A	String	Text

Gift and Loyalty Customer Overview

Data Permissions: **Gift and Loyalty General** and **Customer Identifiable Information**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
CA Customer ID	caCustNum	N/A	N/A	String	Text
City	addrCity	N/A	N/A	String	Text
Credit Limit	credLim	N/A	N/A	Decimal2	Currency
Customer ID	custNum	N/A	N/A	Integer	Integer
Customer Information Status	custInfoStat	Yes, for iQuery only	N/A	Integer	Integer
Customer Name	custFullName	N/A	N/A	String	Text
Customer Number	custPosRef	N/A	N/A	String	Text
Date of Birth	custBthDay	N/A	N/A	Date	Date
Email	custEmail	N/A	N/A	String	Text
First Name	forename	N/A	N/A	String	Text
Home Phone Number	homePhNum	N/A	N/A	String	Text
Last Name	surname	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Program Code	progNum	Yes, for iQuery only	N/A	String	Text
Sign-up Date	dateOfSignup	N/A	N/A	Date	Date
Work Phone Number	workPhNum	N/A	N/A	String	Text
Zip Code	postCode	N/A	N/A	String	Text

Gift and Loyalty Customer Summary

Data Permissions: **Gift and Loyalty General**, **Customer Identifiable Information**, and **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Active	custActive	N/A	N/A	Integer	Integer
Address Line 1	addr1	N/A	N/A	String	Text
Address Line 2	addr2	N/A	N/A	String	Text
Cell Phone Number	custMobNum	N/A	N/A	String	Text
Check Count	checkCnt	N/A	N/A	Decimal2	Currency
City	addrCity	N/A	N/A	String	Text
Country	addrCountry	N/A	N/A	String	Text
County	addrCounty	N/A	N/A	String	Text
Customer External Reference	custExtRef	N/A	N/A	String	Text
Customer Full Name	custFullName	N/A	N/A	String	Text
Customer Number	custPosRef	N/A	N/A	String	Text
Date of Birth	custBthDay	N/A	N/A	Date	Date
Email	custEmail	N/A	N/A	String	Text
First Name	forename	N/A	N/A	String	Text
First Transaction Business Date	firstTransBusDate	N/A	N/A	Date	Date
Guest Count	guestCnt	N/A	N/A	Decimal2	Currency
Home Phone Number	homePhNum	N/A	N/A	String	Text
Last Name	surname	N/A	N/A	String	Text
Last Transaction Date	lastTransBusDate	N/A	N/A	Date	Date
Program	progName	N/A	N/A	String	Text
Sales Amount	ttl	N/A	N/A	Decimal2	Currency
Sign-up Date	dateOfSignup	N/A	N/A	Date	Date
State	addrState	N/A	N/A	String	Text
User Defined Alpha 1	userA1	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
User Defined Alpha 2	userA2	N/A	N/A	String	Text
User Defined Numeric 1	userNum1	N/A	N/A	String	Text
User Defined Numeric 2	userNum2	N/A	N/A	String	Text
Work Phone Number	workPhNum	N/A	N/A	String	Text
Zip Code	postCode	N/A	N/A	String	Text

Gift and Loyalty Customer Transaction Summary

Data Permissions: **Gift and Loyalty General**, **Customer Identifiable Information**, and **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Address Line 1	addr1	N/A	N/A	String	Text
Address Line 2	addr2	N/A	N/A	String	Text
Business Date	busDate	Business Date	N/A	Date	Date
Check Number	chkNum	N/A	N/A	Integer	Integer
City	addrCity	N/A	N/A	String	Text
Customer Full Name	custFulName	N/A	N/A	String	Text
Customer Number	custPosRef	N/A	N/A	String	Text
Email	custEmail	N/A	N/A	String	Text
First Name	forename	N/A	N/A	String	Text
Last Name	surname	N/A	N/A	String	Text
Location	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Program	progName	N/A	N/A	String	Text
Sales Amount	ttl	N/A	Measure	Decimal2	Currency
State	addrState	N/A	N/A	String	Text
Tender Name	tndrName	N/A	N/A	String	Text
Tender Number	tndrNum	N/A	N/A	Integer	Integer
Zip Code	postCode	N/A	N/A	String	Text

Gift and Loyalty Redeemed Coupon

Data Permissions: **Gift and Loyalty General** and **Customer Identifiable Information**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Account Number	accPos	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Amount	amt	N/A	N/A	Decimal2	Currency
Coupon Code	coupNum	Yes, for iQuery only	N/A	String	Text
Coupon Type	coupType	Yes, for iQuery only	N/A	String	Text
Created Host Date and Time	createHostDate	N/A	N/A	Date	Date
Created Local Date and Time	createLocalDate	N/A	N/A	Date	Date
Customer Name	custFullName	N/A	N/A	String	Text
Issued Host Date and Time	issueHostDate	N/A	N/A	Date	Date
Issued Local Date and Time	issueLocalDate	N/A	N/A	Date	Date
Issued Location	issueLoc	N/A	N/A	String	Text
Promotion	promo	N/A	N/A	String	Text
Redeemed Host Date and Time	redeemHostDate	Business Date	N/A	Date	Date
Redeemed Local Date and Time	redeemLocalDate	N/A	N/A	Date	Date
Redeemed Location	redeemLoc	Location	N/A	String	Text
Reversal Status	reversalStat	N/A	N/A	Integer	Integer
Serial Number	serNum	N/A	N/A	String	Text

Gift and Loyalty Transaction

Data Permissions: **Gift and Loyalty General** and **Sales and Operations**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Account Number	accPos	N/A	N/A	String	Text
Account Transaction ID	accTransId	N/A	N/A	String	Text
Amount	amt	N/A	N/A	Decimal2	Currency
Authorization Code	TransAuthCode	N/A	N/A	String	Text
Balance	bal	N/A	N/A	Decimal2	Currency
Bonus Amount	bonusAmt	N/A	N/A	Decimal2	Currency
Bonus Points	bonusPts	N/A	N/A	Decimal2	Currency
Business Date	busDate	Business Date	N/A	Date	Date

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Check Number	chkNum	N/A	N/A	Integer	Integer
Day Part	dayPart	N/A	N/A	Integer	Integer
Description	descript	N/A	N/A	String	Text
Employee Number	emplNum	N/A	N/A	Integer	Integer
Exchange Rate	exchRate	N/A	N/A	Decimal2	Currency
Local Currency Amount	locCurrAmt	N/A	N/A	Decimal2	Currency
Local Currency ISO Code	locCurrIsoCode	N/A	N/A	String	Text
Local Currency Tip Amount	locCurrTipAmt	N/A	N/A	Decimal2	Currency
Local Date and Time	localDate	N/A	N/A	Date	Date
Location	locName	Location	N/A	String	Text
Loyalty Rule Name	ruleName	N/A	N/A	String	Text
Offline Status	offlineStat	N/A	N/A	Integer	Integer
Point of Sale Platform	posPlat	N/A	N/A	String	Text
Point of Sale Terminal Number	posTermNum	N/A	N/A	String	Text
Point of Sale Version Number	posVer	N/A	N/A	Integer	Integer
Points	pts	N/A	N/A	Decimal2	Currency
Previous Balance	prevBal	N/A	N/A	Decimal2	Currency
Program	progName	Yes, for iQuery only	N/A	String	Text
Quarter Hour	qtrHr	N/A	N/A	Integer	Integer
Request Code	reqCode	N/A	N/A	String	Text
Revenue Center	rvc	Revenue Center	N/A	String	Text
Reversal Status	reversalStat	N/A	N/A	Integer	Integer
Trace ID	transTraceId	N/A	N/A	String	Text
Transaction Category	transCat	Yes, for iQuery only	N/A	Integer	Integer
Transaction Key	transKey	N/A	N/A	String	Text
Transferred Account	xferAccPos	N/A	N/A	String	Text

Other Subject Areas

Other subject areas include:

- EMS Menu Items
- Financial Form Detail
- Financial Form Ledger Detail

EMS Menu Items

> **Note**
>
> Available for RES3700 POS only.

Data Permission: **POS Definitions**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Allowed Condiment Class	allowedCondClsNum	N/A	N/A	Integer	Integer
Handheld Screen Lookup Number	hhtSluPos	N/A	N/A	Integer	Integer
Location	locName	Location	N/A	String	Text
Location Number	locNum	N/A	N/A	String	Text
Main Menu Level	menuLvl	N/A	N/A	Integer	Integer
Member Condiment Group	memConGrp	N/A	N/A	Integer	Integer
Menu Item Class Number	menuItemClsNum	N/A	N/A	Integer	Integer
Menu Item Name 1	itemName1	N/A	N/A	String	Text
Menu Item Name 2	itemName2	N/A	N/A	String	Text
Menu Item Number	itemNum	N/A	N/A	Integer	Integer
Menu Level Class Number	menuLvlClsNum	N/A	N/A	Integer	Integer
Number Lookup	posNlu	N/A	N/A	String	Text
Number Lookup Group Number	nluGrpNum	N/A	N/A	Integer	Integer
Printer Class Number	prntClsNum	N/A	N/A	Integer	Integer
Required Condiment Class Number	reqdCondClsNum	N/A	N/A	Integer	Integer
Revenue Center	rvc	Revenue Center	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Screen Lookup Number	sluNum	N/A	N/A	Integer	Integer
Screen Lookup Sort Priority	sluPriorSort	N/A	N/A	Integer	Integer
Sequence	seq	N/A	N/A	Integer	Integer
Sub Menu Level	subMenuLvl	N/A	N/A	Integer	Integer
Surcharge	itemSurcharge	N/A	N/A	Decimal2	Currency
Tare Weight	tareWt	N/A	N/A	Decimal2	Currency

Financial Form Detail

Data Permission: **Financial Forms**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	Business Date	N/A	Date	Date
Cell External Reference	finCellExtNum	Yes, iQuery only	N/A	String	Text
Cell Name	finCellName	N/A	N/A	String	Text
End Date	finEndDate	N/A	N/A	Date	Date
Form Name	finFormName	Yes, iQuery only	N/A	String	Text
Last Updated By	updateBy	N/A	N/A	String	Text
Last Updated Date and Time	updateByTime	N/A	N/A	Date-time	Date-time
Location	locName	Location	N/A	String	Text
Period Name	finPeriodName	Yes, iQuery only	N/A	String	Text
Revenue Center	rvc	Revenue Center	N/A	String	Text
Start Date	finStartDate	N/A	N/A	Date	Date
Value	value	N/A	N/A	String	Text

Financial Form Ledger Detail

Data Permissions: **Financial Forms**.

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Business Date	busDate	Business Date	N/A	Date	Date
End Date	finEndDate	N/A	N/A	Date	Date
Form Name	finFormName	N/A	N/A	String	Text
Last Updated By	updateBy	N/A	N/A	String	Text

Name	Alias	Filter/ Parameter	Type (Measure or Attribute)	Data Type	Data Format
Last Updated Date and Time	updateByTime	N/A	N/A	Date-Time	Date-Time
Ledger Name	finLedgerName	N/A	N/A	String	Text
Location	locName	Location	N/A	String	Text
Memo 1	finMemo1	N/A	N/A	String	Text
Memo 2	finMemo2	N/A	N/A	String	Text
Numeric Value	numVal	N/A	N/A	Decimal2	Currency
Period Name	finPeriodName	Yes, iQuery only	N/A	String	Text
Posting Category External Reference	postCatExtRef	N/A	N/A	String	Text
Posting Category Name	postCatName	N/A	N/A	String	Text
Revenue Center	rvc	Revenue Center	N/A	String	Text
Start Date	finStartDate	N/A	N/A	Date	Date

Running Reports

You can enable auto run if you want the report to use the same parameters, like location or business date, each time someone opens the report. Disable auto run if you expect most users to change the parameters when they view the report. For example, an organization with hundreds of locations may want to disable auto run so a user does not have to wait for the report to run before editing the parameters and running it again for their specific location.

1. In Reporting and Analytics, click the side navigation menu, click **Reports**, click **My Reports** or **Library**, and then select the report.
2. Click **Edit Parameters**, select parameters, and then click **Run**.
3. To enable auto run, select the auto run icon .
4. To disable auto run, deselect the auto run icon 

Saving Report Parameters

1. In Reporting and Analytics, click the side navigation menu, click **Reports**, click **My Reports** or **Library**, and then select the report.

2. Click to the right of **Parameter Name** and select one of the following:
   a. **Save** — to save these parameters and run the report with them in the future.
   b. **Save As** — to create a new version of this report that runs with your preferred parameters. After clicking **Save As**, enter a name for the parameter that will appear on the report tile, and click **Save and Run**. Your new version will appear in My Reports and in the Library with a saved icon 

. The original version will also appear.
   c. **Restore Default** — to return the parameters to their original settings.
   d. **Delete Save As** — to delete the Save As version.

VAT and GST Tax Labels

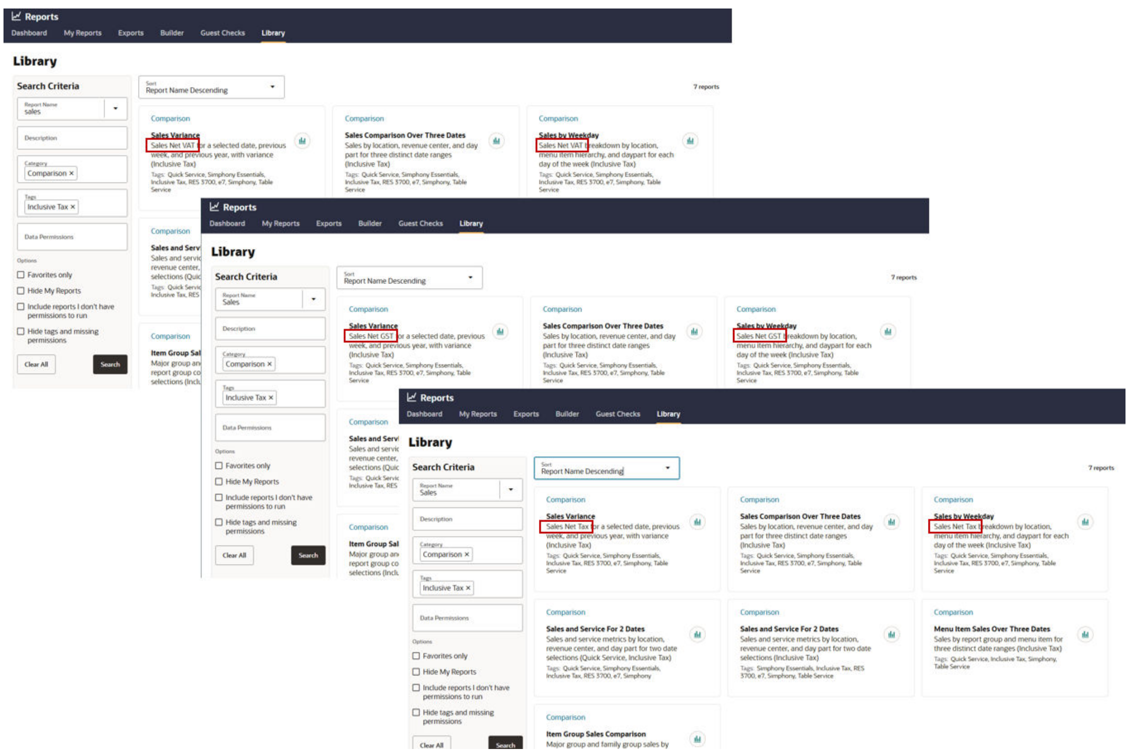
The inclusive tax reports are designed to work for VAT and Australian GST tax configurations.

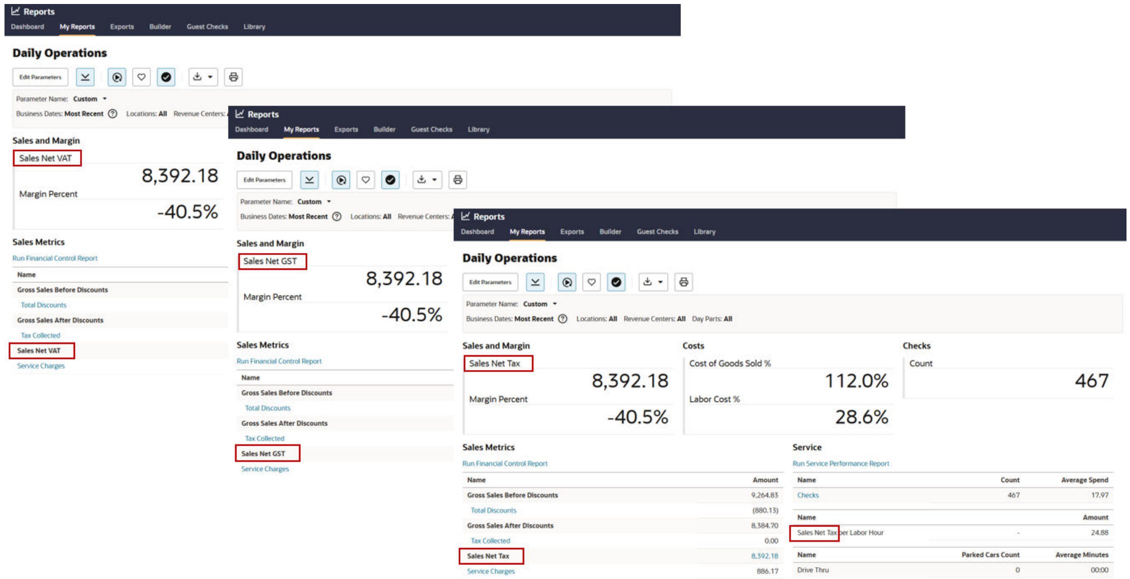
You can change labels on certain reports to fit the needs of your enterprise. For example, tax configurations in Australia must use the goods and services tax label **GST** instead of **VAT**. There is also an option to use a more generic label that you can apply to both VAT and GST locations within your enterprise. The GST label is only supported for Australian GST taxes.

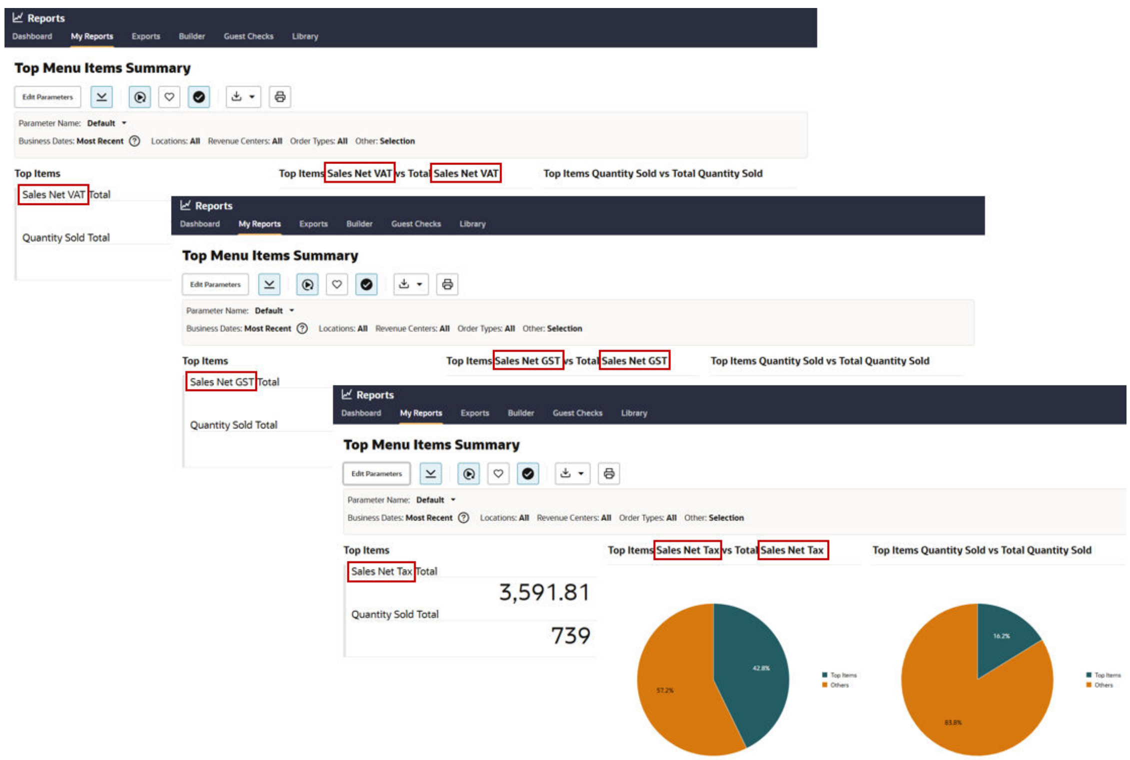
These label changes are applied to the report names, descriptions, and component titles. They also appear on dashboard tiles, when applicable. Dashboard tile label details and a full list of reports with available label changes are listed below.

To change these labels, see Editing Sales and Tax Labels.

Examples of the different VAT, GST, and generic labels are shown in the following images.

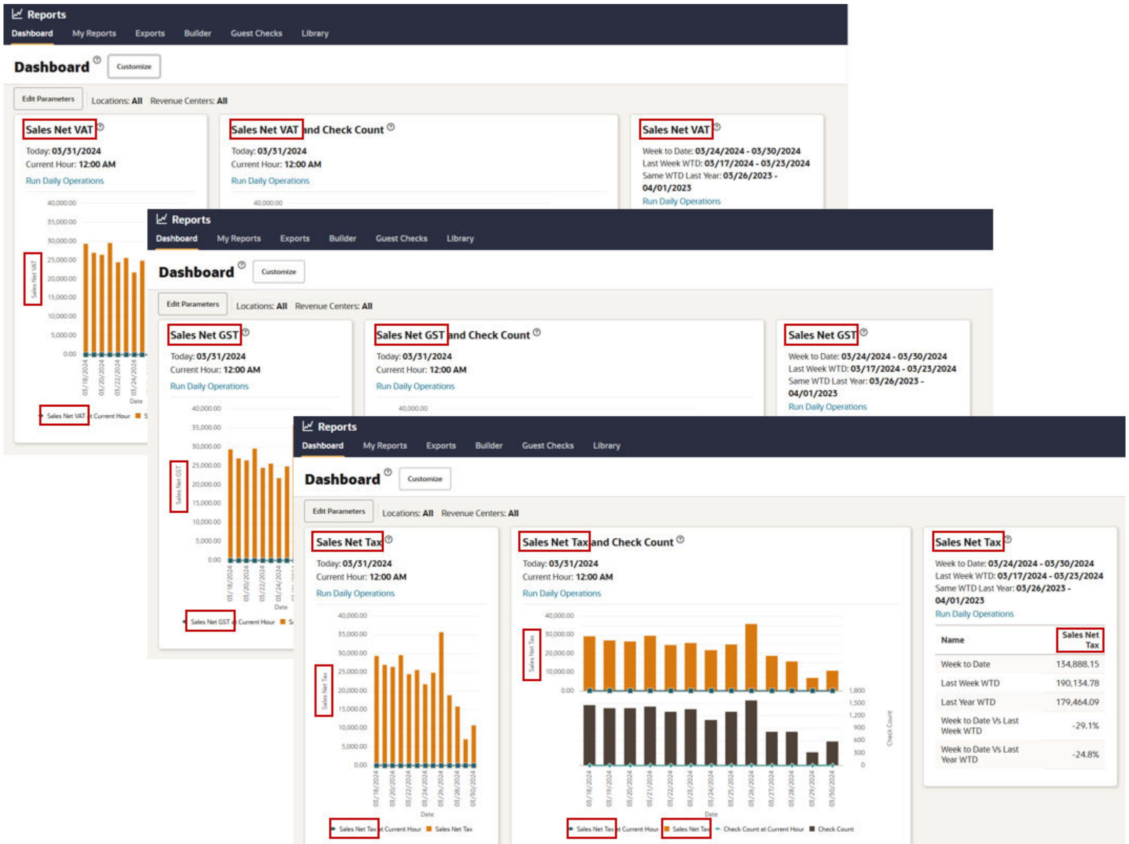






Dashboard Tile Labels

- Dashboard tiles that include **Sales Net VAT** in the report name support both VAT and GST tax configurations and labels, including “Sales Net GST” or “Sales Net Tax”.
- Dashboard tiles that include **(Inclusive Tax)** in the description support both VAT and GST tax configurations and labels.



Reports with VAT and GST Data

The table below lists all reports used specifically for VAT and Australian GST purposes. They have sales metrics that are dependent on the tax configuration and calculations.

Reports with the label change option are noted in the final column. The reports without the label change option do not use specific VAT or GST tax labels.

Report Category	Report Name	Label Change Option?
Summary	• Daily Operations (Table Service Restaurant, Inclusive Tax) • Daily Operations (Quick Service Restaurant, Inclusive Tax)	Yes
Summary	• Daily Operations Summary (Table Service Restaurant, Inclusive Tax) • Daily Operations Summary (Quick Service Restaurant, Inclusive Tax)	Yes
Summary	• Income Audit by Discount (Inclusive Tax)	Yes
Summary	• Income Audit by Major Group (Inclusive Tax)	Yes
Summary	• Serving Period Summary Report (Inclusive Tax)	No

Report Category	Report Name	Label Change Option?
Daily Detail	• Closed Checks (Table Service Restaurant, Inclusive Tax) • Closed Checks (Quick Service Restaurant, Inclusive Tax)	Yes
Daily Detail	• Closed Checks by Tender Type (Inclusive Tax)	Yes
Daily Detail	• Cost of Goods Sold (Inclusive Tax)	No
Daily Detail	• Discounts (Inclusive Tax)	No
Daily Detail	• Key Performance Indicators by Workstation (Inclusive Tax)	Yes
Daily Detail	• Labor Summary (Inclusive Tax)	Yes
Daily Detail	• Sales by Tax Type (Inclusive Tax)	Yes
Daily Detail	• Table Sales (Inclusive Tax)	Yes
Daily Detail	• Taxes (Inclusive Tax)	Yes
Operations Performance	• Budget and Forecast Comparison by Location, Revenue Center, and Business Date (Table Service Restaurant, Inclusive Tax) • Budget and Forecast Comparison by Location, Revenue Center, and Business Date (Quick Service Restaurant, Inclusive Tax)	Yes
Operations Performance	• Employee Exceptions (Table Service Restaurant, Inclusive Tax) • Employee Exceptions (Quick Service Restaurant, Inclusive Tax)	No
Operations Performance	• Employee Financial (Inclusive Tax)	No
Operations Performance	• Employee Productivity (Table Service Restaurant, Inclusive Tax) • Employee Productivity (Quick Service Restaurant, Inclusive Tax)	No
Operations Performance	• Historic Totals (Inclusive Tax)	Yes

Report Category	Report Name	Label Change Option?
Operations Performance	• Operations Analysis (Table Service Restaurant, Inclusive Tax) • Operations Analysis (Quick Service Restaurant, Inclusive Tax)	Yes
Operations Performance	• Service Performance (Table Service Restaurant, Inclusive Tax) • Service Performance (Quick Service Restaurant, Inclusive Tax)	Yes
Operations Performance	• Speed of Service (Table Service Restaurant, Inclusive Tax) • Speed of Service (Quick Service Restaurant, Inclusive Tax)	Yes
Operations Performance	• System Financial (Inclusive Tax)	Yes
Comparison	• Daily Operations Date Comparison (Table Service Restaurant, Inclusive Tax) • Daily Operations Date Comparison (Quick Service Restaurant, Inclusive Tax)	Yes
Comparison	• Daily Operations Location Comparison (Table Service Restaurant, Inclusive Tax) • Daily Operations Location Comparison (Quick Service Restaurant, Inclusive Tax)	Yes
Comparison	• Daily Operations Revenue Center Comparison (Table Service Restaurant, Inclusive Tax) • Daily Operations Revenue Center Comparison (Quick Service Restaurant, Inclusive Tax)	Yes
Comparison	• Item Group Sales Comparison (Inclusive Tax)	Yes
Comparison	• Key Performance Indicator Comparison (Table Service Restaurant, Inclusive Tax) • Key Performance Indicator Comparison (Quick Service Restaurant, Inclusive Tax)	Yes

Report Category	Report Name	Label Change Option?
Comparison	• Sales and Service For 2 Dates (Table Service Restaurant, Inclusive Tax) • Sales and Service For 2 Dates (Quick Service Restaurant, Inclusive Tax)	Yes
Comparison	• Sales Comparison Over Three Dates (Inclusive Tax)	Yes
Comparison	• Sales Variance (Inclusive Tax)	Yes
Comparison	• Sales by Weekday (Inclusive Tax)	Yes
Comparison	• Service by Weekday (Table Service Restaurant, Inclusive Tax) • Service by Weekday (Quick Service Restaurant, Inclusive Tax)	No
Menu Item Sales and Performance	• Combo Items Summary (Inclusive Tax)	Yes
Menu Item Sales and Performance	• Employee Sales Mix (Inclusive Tax)	No
Menu Item Sales and Performance	• Menu Item Sales Comparison (Inclusive Tax)	Yes
Menu Item Sales and Performance	• Menu Item Sales over Three Dates (Inclusive Tax)	Yes
Menu Item Sales and Performance	• Menu Engineering (Inclusive Tax)	Yes
Menu Item Sales and Performance	• Menu Item Affinity (Inclusive Tax)	Yes
Menu Item Sales and Performance	• Sales Analysis (Inclusive Tax)	Yes
Menu Item Sales and Performance	• Sales by Major Group Type (Inclusive Tax)	Yes
Menu Item Sales and Performance	• Sales Mix (Inclusive Tax)	Yes
Menu Item Sales and Performance	• Top Menu Items Summary (Inclusive Tax)	Yes
Drill-Down	• Check Detail (Inclusive Tax)	Yes
Drill-Down	• Income Audit by Family Group (Inclusive Tax)	Yes

Editing Sales and Tax Labels

You can edit certain report labels to use either VAT, GST, or generic labels. Label changes are applied in every instance that the label appears. For example, not only is the report name changed, but so are all report components and descriptions that include the label.

This is an enterprise-wide setting that applies to all locations and people, independent of their actual POS configuration.

1. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Warehouse Admin**, click **Miscellaneous**, and then click **Enterprise Options**.
2. From **Inclusive Tax Report Naming Convention**, select the label options you want to use for your enterprise. The default option is **use Value Added Tax (VAT) labels**. The table below lists the report naming options and their associated labels that appear on the report.

Table 6-1 Report Label Options

use Value Added Tax (VAT) labels	use Australian Goods and Services Tax (GST) labels	use generic labels
Sales Net VAT	Sales Net GST	Sales Net Tax
Net VAT before Discount	Net GST before Discount	Net Tax before Discount
Net VAT after Discount	Net GST after Discount	Net Tax after Discount
Discount VAT	Discount GST	Discount Tax
VAT Total	GST Total	Tax Total
Discounts Amount Net VAT	Discounts Amount Net GST	Discounts Amount Net Tax
Taxable Sales Net VAT	Taxable Sales Net GST	Taxable Sales Net Tax
All Sales Net VAT	All Sales Net GST	All Sales Net Tax

3. Click **Save**.

Exporting Reports

You can export reports into Microsoft Excel, save them as a PDF, or print them.

1. In Reporting and Analytics, click the side navigation menu, click **Reports**, click **My Reports** or **Library**, and then select the report.
2. To download the report, click the  icon.
   a. Select **Microsoft Excel (.xlsx)** and then open the downloaded file to export the data as it appears in the report.
   b. Select **Comma-Separated Values (csv)** and then open the downloaded file to export the data in plain text.
3. To save as a PDF or print the report, click the  icon.

> **Note**
>
> The appearance of tiles and reporting data on the PDF output reflects the view of the portal when printed. For example, if you expand or collapse certain elements in a table, then that will be reflected in the PDF.

Custom Reports in Microsoft Excel

iQuery is a Microsoft Excel add-in that lets you export data to Microsoft Excel and then create reports using selected data subject areas.

The subject areas that you can work with in the add-in depend on how your administrator configured your role. If your administrator did not assign all required data permissions for a subject area to your role, that subject area does not appear in the add-in.

For example, if you want a start-of-day report that replaces the Operating Metrics section of the Daily Operations Summary report with information about the three best-selling items for that day and some labor performance and efficiency analysis, you can create a report with the fields you want to see. You can then save the custom report into Reporting and Analytics so you can launch the report from the sidebar.

Supported Microsoft Excel versions for iQuery are Microsoft Excel 2013, Microsoft Excel 2016, and Microsoft Office 365.

Data Permissions for iQuery

The following table lists each subject area available in iQuery and the corresponding data permissions that are required to view that subject area.

To gain access to these data permissions, contact your system administrator.

Subject Area	Data Permission
Gift and Loyalty Customer Summary	• Gift and Loyalty General • Customer Identifiable Information • Sales and Operations
Gift and Loyalty Customer Transaction Summary	• Gift and Loyalty General • Customer Identifiable Information • Sales and Operations
Discount Daily Total	• Sales and Operations
Discount Daily Total (Common Currency)	• Sales and Operations
Discount Fixed Period Total	• Sales and Operations
Employees	• POS Definitions • Employee Identifiable Information • Sensitive Identifiable Information • Labor General
Employee Daily Total	• Labor General • Sales and Operations • Employee Performance
Employee Job Rates	• Labor General • Employee Identifiable Information • Hourly Pay Rates • Salaried Pay Rates
Employee Job Code Daily Total	• Labor General • Employee Performance • Hourly Pay Rates • Salaried Pay Rates

Subject Area	Data Permission
EMS Menu Items	• POS Definitions
Enterprise Employees	• POS Definitions • Employee Identifiable Information • Labor General • Sensitive Identifiable Information
Enterprise Employee Job Rate	• POS Definitions • Employee Identifiable Information • Labor General • Hourly Pay Rates • Salaried Pay Rates
Enterprise Time Cards	• Labor General • Employee Time Card Details • Hourly Pay Rates • Salaried Pay Rates • Sales and Operations • Employee Identifiable Information
Enterprise Time Card Adjustments	• Labor General • Employee Time Card Details • Hourly Pay Rates • Salaried Pay Rates • Sales and Operations • Employee Identifiable Information
Financial Form Detail	• Financial Forms
Financial Form Ledger Detail	• Financial Forms
Guest Checks (Current Business Date)	• Sales and Operations
Discount Transaction Details (Current Business Date)	• Sales and Operations
Discount Transaction Details	• Sales and Operations
Menu Item Transaction Details (Current Business Date)	• Sales and Operations
Service Charge Transaction Details (Current Business Date)	• Sales and Operations
Tender/Media Transaction Details (Current Business Date)	• Sales and Operations
Gift and Loyalty Account	• Gift and Loyalty General • Customer Identifiable Information
Gift and Loyalty Transaction	• Gift and Loyalty General • Sales and Operations
Gift and Loyalty Customer Detail	• Gift and Loyalty General • Customer Identifiable Information
Gift and Loyalty CA Customer Program	• Gift and Loyalty General • Sales and Operations • Customer Identifiable Information
Gift and Loyalty CA Email Offers	• Gift and Loyalty General • Customer Identifiable Information
Gift and Loyalty CA Email Sent Opened	• Gift and Loyalty General

Subject Area	Data Permission
Gift and Loyalty Coupon	• Gift and Loyalty General • Customer Identifiable Information
Gift and Loyalty Coupon Types	• Gift and Loyalty General
Gift and Loyalty Customer Overview	• Gift and Loyalty General • Customer Identifiable Information
Gift and Loyalty Program	• Gift and Loyalty General
Gift and Loyalty Redeemed Coupon	• Gift and Loyalty General • Customer Identifiable Information
Inventory Daily Total	• General Inventory • Theoretical Stock on Hand
Job Code Daily Total	• General Labor • Hourly Pay Rates • Salaried Pay Rates
Job Code Fixed Period Total	• General Labor • Hourly Pay Rates • Salaried Pay Rates
Labor Category Daily Total	• General Labor • Hourly Pay Rates • Salaried Pay Rates
Labor Category Total (Common Currency)	• General Labor • Hourly Pay Rates • Salaried Pay Rates
Labor Category Fixed Period Total	• General Labor • Hourly Pay Rates • Salaried Pay Rates
Menu Item Daily Total	• Sales and Operations
Menu Item Daily Total (Common Currency)	• Sales and Operations
Menu Item Fixed Period Total	• Sales and Operations
Non Sales Transaction Details	• Sales and Operations
Operations Daily Total	• Sales and Operations
Operations Daily Total (Common Currency)	• Sales and Operations
Operations Fixed Period Total	• Sales and Operations
Operation Fixed Period Total (Common Currency)	• Sales and Operations
Other Pay	• General Labor • Hourly Pay Rates • Salaried Pay Rates • Employee Identifiable Information
Other Pay Adjustments	• General Labor • Hourly Pay Rates • Salaried Pay Rates • Employee Identifiable Information
Service Charge Daily Total	• Sales and Operations
Service Charge Fixed Period Total	• Sales and Operations
Tax Daily Total	• Sales and Operations

Subject Area	Data Permission
Tender Daily Total	• Sales and Operations
Tender Daily Total (Common Currency)	• Sales and Operations
Tender Fixed Period Total	• Sales and Operations
Time Cards	• General Labor • Employee Time Card Details • Hourly Pay Rates • Salaried Pay Rates • Sales and Operations • Employee Identifiable Information
Time Card Adjustments	• General Labor • Employee Time Card Details • Hourly Pay Rates • Salaried Pay Rates • Sales and Operations • Employee Identifiable Information

Installing iQuery

1. Close Microsoft Excel if it is open.
2. In Reporting and Analytics, click the side navigation menu, click **Reports**, and then click either **My Reports** or **Builder**.
3. Click **Download iQuery** and then click **Download**.
4. Double-click the `iQuerySetup.exe` file and then follow the prompts to install the software.
5. Validate the installation:
   a. Open Microsoft Excel.
   b. Locate the iQuery plug-in, and then open iQuery.

      The location varies depending on the version of Microsoft Excel. For example, in Microsoft Excel 2013, access iQuery from the **ADD-INS** ribbon.
   c. Log in to iQuery.

Building a Custom Report in Microsoft Excel

1. Select a query subject.
2. Select the column data that appears in the spreadsheet when you run the query.

   Use the up and down arrows to adjust the order of the columns in the spreadsheet. For example, if you move a column to the top of the list, that column is the first column in the spreadsheet.
3. To apply a mathematical operation to column data, select it from the **Operation** drop-down list.
4. Specify filters to refine query results:
   a. Select a business date or date range.
   b. Select locations.

c. Select revenue centers for the locations.

d. Select other filters.

If the organizational hierarchy and the reporting hierarchy are different, then the location results in iQuery and reports will not be aligned.

5. Define the order in which iQuery sorts the data.
6. Click **Preview** to verify that the query returns the correct results.

   If the preview does not return results or returns too many rows, change query settings and then preview the query again.
7. Click **Run** to show the results in Microsoft Excel.
8. Save the query.

   To save the query on your computer so you can run it at a later time from Microsoft Excel, click **Query**. iQuery does not save the business date because you change the date each time you run the query.

   To save the query as a report, click **Report**. People assigned to the role for accessing custom reports can run the report from Reporting and Analytics.

> **Note**
>
> - When you save the query as a report, it is available for all other people with the same role.
> - The report is not added to the My Reports page automatically, but you can add it manually.

Searching for Guest Checks

Required system privilege: **Sales and Operations**

This feature lets you search for guest checks that match certain search criteria. For example, if a customer calls to get a copy of their receipt you can narrow down the list of guest checks based on search criteria.

> **Note**
>
> When drilling down into the check details, an information icon is displayed if you don't have the **Payment Processing** data permission. The Payment Processing report components and required data permission are only available for customers using the Payment Cloud Service.

1. In Reporting and Analytics, click the side navigation menu, click **Reports**, and then click **Guest Checks**.
2. Specify the search criteria and then click **Search**. Search criteria options include:
   - **Date Selection -** select **Business Date** or **Check Opened Date and Time**. The business date range that you can select is limited to a maximum of 7 days.

- **Check Employee First Name** - you can use `%` as a wildcard character. Enter the first letters of your search term and then add `%` to the end to represent one or more other characters. For example, you can search all people with a first name starting with the letter J by searching `J%`.
- **Check Employee Last Name** - you can use `%` as a wildcard character.
- **Check total**
- **Check number**
- **Tender type** - enabled after you select a location. The listed options are limited to the definitions for that location.
- **Revenue center name** - enabled after you select a location. The listed options are limited to the definitions for that location.
- **Menu item name** - enabled after you select a location. The listed options are limited to the definitions for that location.
- **Order type name** - enabled after you select a location. The listed options are limited to the definitions for that location.
- **Order channel name** - enabled after you select a location. The listed options are limited to the definitions for that location.
- **Discount name** - enabled after you select a location. The listed options are limited to the definitions for that location.
- **Check reference** - if entered, this is also displayed as a separate column within the results.
- **Table reference** - if entered, this is also displayed as a separate column within the results.
- **Credit card number (last 4 digits)** - requires Simphony Payment Interface (SPI), or Oracle Restaurants Payment Cloud Service.

3. Select the check to view the Check Detail report.

   Within the report, you can download or print the report. If using Simphony, you can drill down further to see the POS transaction view. For more details about the Check Detail report, see the *Oracle Restaurants Reporting and Analytics Reports Reference Guide*.

Retrieving Transaction Information with Audit & Analysis

1. In Reporting and Analytics, click the side navigation menu, click **Reports and Check Search**, and then click **Audit & Analysis**. If you cannot find the link, contact your system administrator so that you can gain access to the **Audit & Analysis** portlet.
2. In the **Create New Queries** section, click the query type.

   For example, click **Transaction Detail** to build a query based on specific transaction details such as menu items. Your role and user type determines the queries you can create.
3. Click **Locations** at the top of the page and then select the location.
4. Click **Business Dates** and then select dates:
   a. To use a fiscal calendar, select **Financial**. Contact your system administrator to verify your organization uses a fiscal calendar.

b. To use a pre-defined date or date range, select it from the **Quick Select** drop-down list.

c. Select the year.

d. To select dates from the calendar grid:

- Click a single day.
- Click the month name to select all the days in the month.
- Click the day column header to select all those days in the month.
- Click the numbered week to select all the days in that week.
- Press and hold the **Ctrl** key to select multiple days.

5. Click **Filters**, and then specify criteria to limit the query to a useful set of results, as described in the following table:

Table 6-2 Audit and Analysis Filters

Filter	Description
Item Types	Filters by discounts, menu items (Transaction Detail only), service charges (Transaction Detail only), and tender media associated with the check.
General	Filters by general transaction information. The query type determines the general criteria you can define.
Workstation (Transaction Detail only)	Filters results by checks generated from workstations at locations.
Day Parts	Filters by checks generated during parts of a day configured for your organization. Examples of day parts include breakfast, lunch, dinner, and late night. You can also select 15-minute intervals within an hour.
Order Types	Filters by order types configured for your organization.
Revenue Centers	Filters by revenue center. For example, you can filter on guest check transactions from the bar or restaurant.
Customer (Transaction Summary only)	Filters by customer information associated with transactions. For example, you can filter by the name on the credit card a customer used for the transaction.
Employee	Filters by employee information associated with transactions. For example, you can filter by all transactions for check employee Brian Smith.
Tax (Transaction Summary only)	Filter by tax information associated with transactions.

6. Click **Format** and define query output settings:

a. Select the output type.

b. To show location-specific names of menu items, tender and media, discounts, and service charges in the query, select **Use location names rather than master names.**

Clearing this option shows the names from the master definition table.

c. Select the columns that appear in the query and then define how the column data appears in the query.

   For example, you can group data by revenue center in ascending order. To apply a mathematical operation, select the operation from the **Function** column.

7. Click **Run** to run the query.
8. Click **Publish** to save the query and make it available to other users:
   a. Type a name and description for the query.
   b. On the **Publish To** tab, specify if the members of a role or specific users can run the query.
   c. On the **Prompted Filters** tab, select the filters that other users can set when running the published query.
   d. Click **Save**.

   The query appears in the **Public Queries** section on the Audit & Analysis page.

Exporting Audit & Analysis Queries

1. Build and run an Audit & Analysis query or run a published query.
2. Click the export format icon as shown in the following example:

7 Organizational Hierarchies

Create and link revenue centers, locations, and levels of the organization.

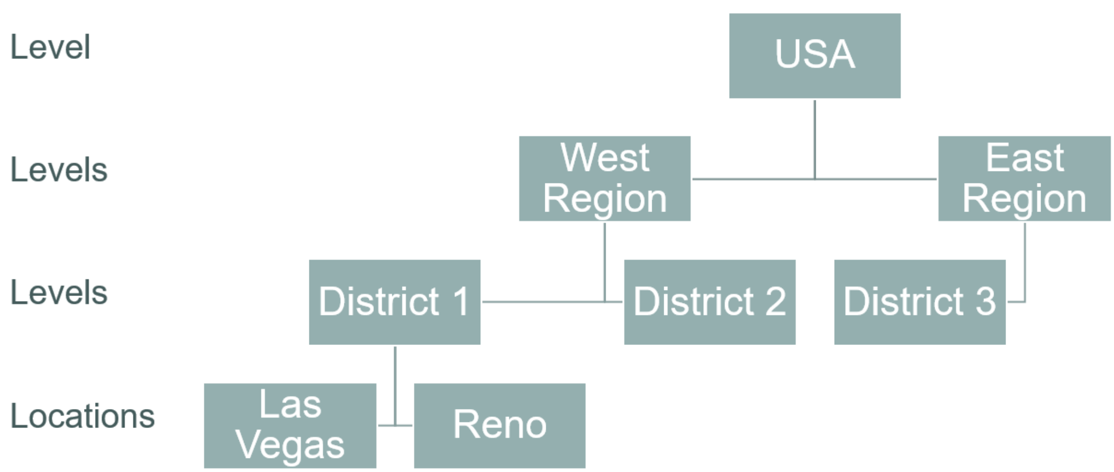
The enterprise has only one organizational hierarchy, which provides structure for an enterprise and its locations. The hierarchy ensures totals from all locations are available for reports and it controls how charts show information in Reporting and Analytics. If the organizational hierarchy and the reporting hierarchy are different, then the location results in iQuery and reports will not be aligned.

The organizational hierarchy consists of levels and locations. A location is a restaurant. A level is a group of locations or a group of levels. You define the hierarchy by creating parent-child relationships between levels and locations.

> **Note**
>
> The relationships between levels and locations should be setup in such a way, that you only have a single level that represents the enterprise or corporation and all other levels and locations are linked underneath it.

In the following figure of a sample organizational hierarchy, District 1 is the parent to the Las Vegas and Reno locations, and the West Region is the parent to District 1 and District 2.

Figure 7-1 Example Organizational Hierarchy



You can use the organizational hierarchy to determine a person's access to information in the system. Using the sample hierarchy as a model, you can create a District Manager role and then assign the role to the District Manager for District 1. Because of the system relationship between District 1 and the Las Vegas and Reno locations, the District Manager can only see information for those locations and cannot see information for the locations related to the other districts.

Revenue Centers

Revenue centers let organizations categorize revenue data by function within a location. At a fast food restaurant, each register and the drive-thru are examples of revenue centers. At a table service restaurant, the bar and dining area are examples of revenue centers.

If your organization is configured for revenue centers, Reporting and Analytics lets you filter by revenue center when you modify and run standard reports. You can also filter by revenue center when you use iQuery to work with reporting data in Microsoft Excel.

Adding Levels

1. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Portal Admin**, click **Organizational Structure**, and then click **Levels**.
2. Click **Add**.
3. In the **Name** field, enter a level name.

   For example, enter `District 1` for a district level or type `East` to for a region level.
4. Enter a **Level Reference** to indicate the level position within the organizational hierarchy.

   Use a value of `0` if the level is the highest corporate level in the organization. Use text or numbers when adding lower levels to the organization. For example, you can use `10` for one district and `20` for another district.
5. Select the **Financial Calendar** for the level.

   For example, if the organization uses a financial calendar based on a fiscal year, select the corresponding calendar.
6. Specify values for basic level settings on the form, such as address and postal code, and then click **Save**.

Adding Locations

- All locations must be assigned to a level. See Establishing Relationships Between Levels and Locations for more details.
- Starting with release 20.1.10, you cannot add or edit property details in Reporting and Analytics if your Reporting and Analytics application is connected to Simphony. In this case, property details are read-only in Reporting and Analytics and you must add or edit property details in the Simphony Enterprise Management Console (EMC).

1. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Portal Admin**, click **Organizational Structure**, and then click **Locations**.
2. Click **Add**.
3. Specify values for the remaining settings on the form and then click **Save**.

   The following table lists the fields with a description and several examples.

   When using Oracle Payment Cloud Service, you must complete the required fields which include:
   - Region
   - Address Line 1

- Address Line 2
- Address Line 3
- Postal Code
- Municipality/City
- Country
- Phone and Fax

Field	Description
Name	Enter a unique name of the location. For example, `Italian Restaurant`.
Location Reference	Enter an alphanumeric external reference for this location. It is often used in data exports to downstream systems to identify a location and map it to an external system, so changing the value has an impact. For example, `Loc1`.
Labor Program	Select the labor program.
Region	Select the state.
Language	Select a language.
Number Workstations	Read-only value that is available for RES 3700 POS systems and shows the number of configured workstations.
Currency	Select the currency. See Enabling Currency Configuration and Setting the Common Currency for more information.
Cuisine	Enter the type of cuisine. For example, `Italian`.
Service Style	Enter the service style. For example, `quick service`.
Time Zone	Select the time zone.
Site ID	Enter an ID for this location which can be used in exports.
Address Line 1	Enter the street number.
Address Line 2	Enter the street name.
Address Line 3	Optional additional address information.
Postal Code	Enter the postal or zip code of the location, it must be 5 digits.
Municipality/City	Enter the city.
Country	Select the country.
Phone and Fax	Select your country code and enter the phone number. It must be at least 10 digits. Do not use special characters, for example a dash (-).
Cost Tier	If using cost tiers, this links to the Cost Tier module.

Field	Description
Financial Calendar	If the location uses a financial calendar different than the parent level or the organization, select it from the drop-down list.
Comp Store	Select if comparable to other stores. This field is used for customized reports when using the report builder.
Open Date	Select the date that the location originally opened.
Tax Type Override	Select a tax setting.
Enable iCare Override	Select an option for Gift and Loyalty at this location. This option is only available for 9700 POS systems.
Enable Enterprise Labor	Select to enable Labor Management. If selected, then the **Configuration Model** field appears.
Use Standalone Terminal	This field is not in use.
Enable Inventory	Select to enable Inventory Management if it is used at this location.
Location Tax Settings	Select the type of tax.

Establishing Relationships Between Levels and Locations

1. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Portal Admin**, click **Organizational Structure**, and then click **Relationships**.
2. Select the highest level in the organization, and then click **Edit**.
3. In the **Parent Name** field, select **No Parent**.

> **Note**
>
> - Only one level can have **No Parent** assigned.

4. Click **Save**.
5. Select a location and then click **Edit**.
6. Select the parent level for the location and then click **Save**.
7. Repeat steps 5 and 6 to establish relationships for the remaining locations.

8

Item Alignment

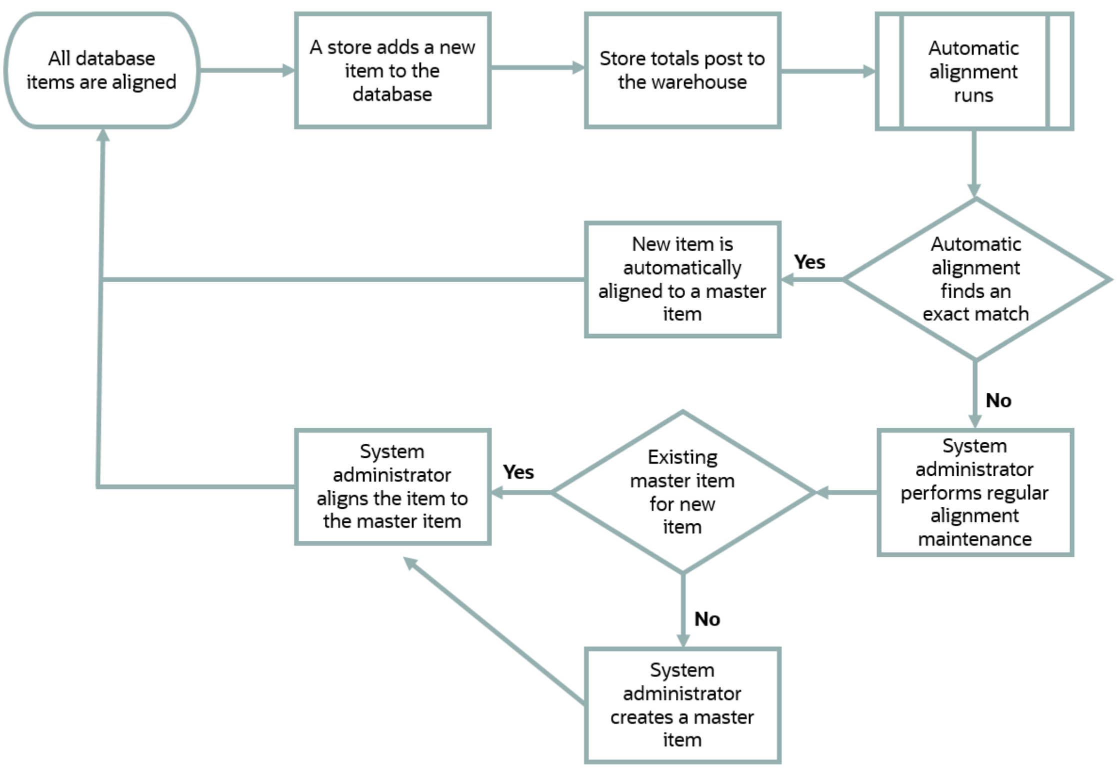
Standardize menu items by setting up master items, master groups, and master stores.

Item alignment matches the same items under the correct master item if there is any variance in the item name. This ensures accurate reports and calculations. When your organization does not use an enterprise management module to control data entry, different locations can enter the same item with slight variances.

Reporting and Analytics lets you define the master entries for items, such as menu items and order types. The following diagram provides an overview of the workflow for automatically and manually aligning items added to the database.

> **Note**
>
> Item alignment is not available for enterprises using Oracle Simphony Cloud Service. If duplicate items with the same name are created in Simphony at the enterprise and location/zone level, they appear on reports with their definition name followed by the POS Reference number. If you need to merge multiple master items, you must open a Service Request (SR).

Figure 8-1 Item Alignment Process



Item alignment consists of the following components:

- **Master Items**: A master item is the parent item name that unifies all name variations for an item.

  For example, a restaurant chain offers a one-pound beef hamburger with cheese. Each restaurant location can name or refer to this hamburger differently, such as `cheeseburger` or `beef burger, 1LB`. By default, reports and calculations handle these two entries as completely different entities. To consolidate the two entries, you can create a master item named `Beef Cheeseburger, 1LB`, and then link the two entries to the master item. Reporting and Analytics then always treats posted entries for `cheeseburger` and `beef burger, 1LB` as a `Beef Cheeseburger, 1LB` order.

- **Master Groups**: A master group consists of similar locations, such as fast food stores, and lets an organization assign menu items and alignment rules to all locations within the group. Each location can only be assigned to one master group for each item type. Each master group must be assigned at least one master store.

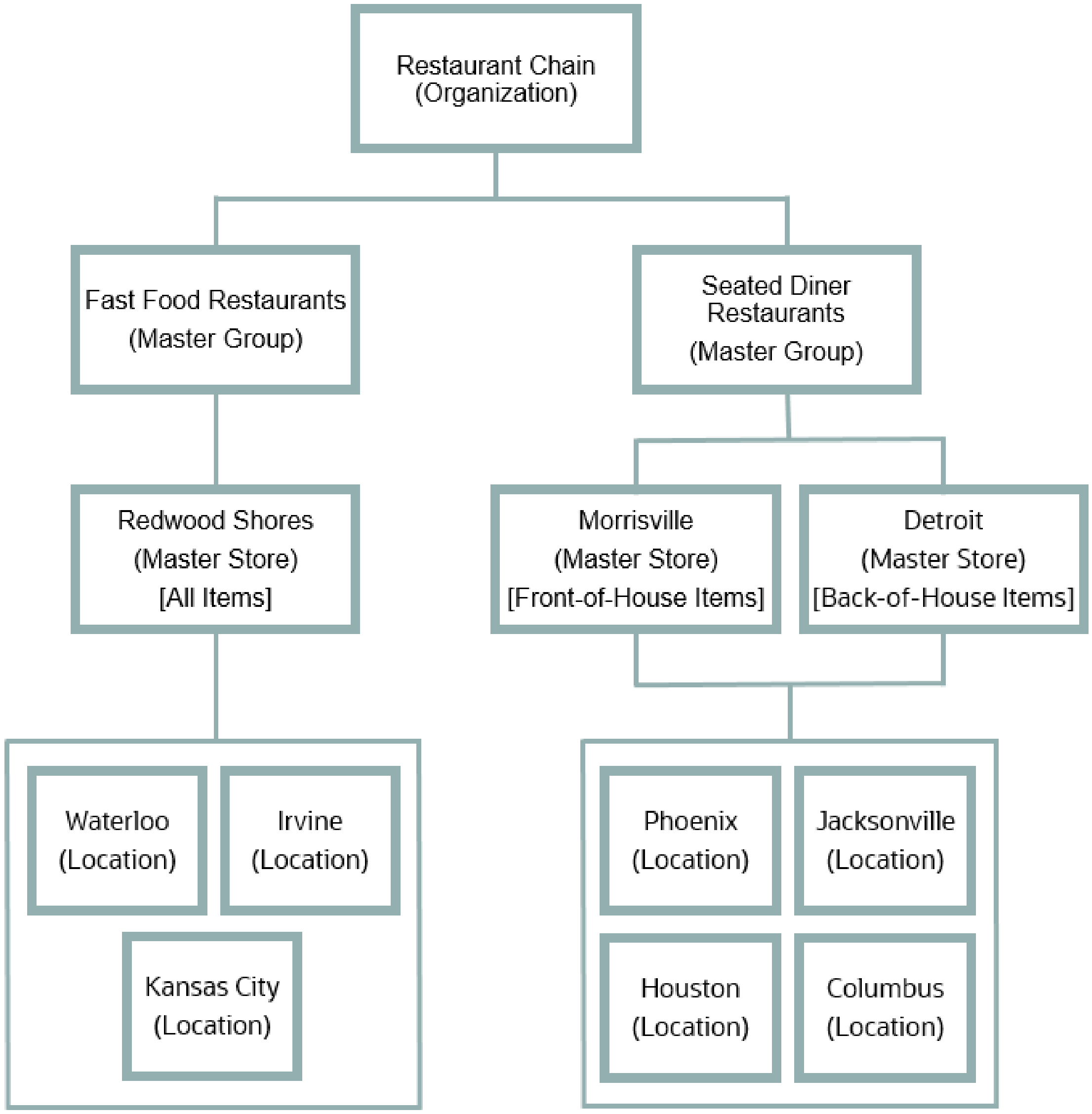
  For example, a restaurant chain offers fast food stores and seated diner stores. The chain can create a master group for their fast food stores and a master group for their seated diner stores, and then assign a headquarters store to each group. This lets the restaurant control item alignment for fast food stores separately from seated diner stores.

- **Master Store**: The master store sets the default rules and alignment for all other stores within the same master group. You can only assign one master store for each item type.

  For example, a restaurant chain configures a master group for their fast food chain, and assigns the `Redwood Shores` location as the master store for all front-of-house item categories, such as menu items and discounts. When a new menu item is introduced to the system in the Redwood Shores location, Reporting and Analytics treats the Redwood Shores instance as the master item. When a new menu item is introduced to the system in another location, Reporting and Analytics attempts to align the new menu item to existing master items, and you must either manually configure a master item or create an instance of the menu item at the Redwood Shores location.

The following diagram provides an example of an organization that defines two master groups to separate item alignment between fast food restaurants and seated diner restaurants.

Figure 8-2   Example Master Group and Master Store



This section contains the following topics:

Configuring Automatic Alignment Rules

Alignment rules define the item alignment processes by:

- Controlling how unaligned items are matched.
- Enabling standard food costs.
- Enabling item aliasing.
- Setting the start and end times for charts.
- Defining the default methods for identifying new items.
- Defining how new items are matched to existing values.

Alignment rules do not guarantee that all new items are aligned to existing items. You can use the rules to increase the likelihood of successfully automated matches. Administrators should continue to perform routine checks of unaligned items and review item alignment to ensure accuracy.

1. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Warehouse Admin**, click **Miscellaneous**, and then click **Alignment Rules**.
2. For each item type, select an item property from the corresponding drop-down list. Reporting and Analytics searches for and aligns items with exact case-sensitive matches for the selected item property.

Table 8-1 Oracle Restaurants Item Alignment Rules

Item Type	Drop-down List	Item Properties
Menu Item	Menu Item Alignment Based On	• **POS Number** • **Name 1** • **Name 2** • **Name 1 and POS Number**
General Item	General Alignment Type	• **POS Item Number Only** • **POS Name Only** • **POS Item Number and Name**
Back-of-House Item	BOH Align Type	• **POS Item Number Only** • **POS Name Only** • **POS Item Number and Name**

3. Enter the start and end time for all charts in the portal using the 24-hour format.
4. Enter the default food cost percentage when a percentage is not included in the master table or the data posted from the POS.
5. Select how the system handles new menu items from the **Menu Item Name Change** drop-down list:
   - **Replace an Old Name**
   - **Create a New Menu Item**
6. Enter the **Number of Attempts** to be made to align each menu item.
7. Select how Reporting and Analytics creates or modifies tax definitions from the **Create New Tax Definition** drop-down list.
   - Select **Update Existing** to update tax definition items that exist in the system.
   - Select **On Rate Change** to update tax definitions for items that undergo a rate change.
   - Select **On Name Change** to update tax definitions for items that undergo a name change.
   - Select **On Name or Rule Change** to update tax definitions for items that undergo both a rate and name change.
8. Select **Enable Menu Item Aliasing** to allow users to designate aligned items as an alias of the master item. Automatic alignment then performs alignment if an item matches the master item or an alias.
9. Select **Enable Other Table Aliasing** to allow unaligned menu items to alias with items found in other database tables.

10. You can enter other alignment rule information in the **Other Alignment Rules** field.

Configuring a Master Group

1. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Warehouse Admin**, click **Miscellaneous**, and then click **Master Groups**.
2. Click **Add**, or select a master group and then click **Edit**.
3. Enter a name, suffix, and comment for the master group, and then click **Save**.

   Reporting and Analytics appends the suffix to items aligned with the master store. This lets you immediately identify the alignment status of items when performing manual alignment. For example, if you configure the `Front of House` master group with the `FOH` suffix, and then set a master item for `COCKTAIL`, Reporting and Analytics appends the suffix and shows the item as `COCKTAIL.FOH`.

Assigning Locations as Master Stores

1. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Warehouse Admin**, click **Miscellaneous**, and then click **Master Groups**.
2. Select a master group, and then click **Assign Store Master**.
3. Click **Add**, and then select a **Location** from the drop-down list.
4. Select the item types or groups to designate the master items. You cannot designate an item type or group as a master item if it has been set for another master store in the same master group.
   - Select **Menu Item**, **Major Group**, and **Family Group** together.
5. You can select **Assign as location** if you deactivate the location as a master store.

Assigning Locations to the Master Group

1. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Warehouse Admin**, click **Miscellaneous**, and then click **Master Groups**.
2. Select a master group, and then click **Assign Location**.
3. Click **Add**, and then select a **Location** from the drop-down list.
4. Select the item types or groups to align to the master items in this master group.
   - Select **Menu Item**, **Major Group**, and **Family Group** together.
5. Click **Save**.

Configuring Master Items

1. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Warehouse Admin**, click **Master Items**, click **Menu Item Master**, and then click the item category for which you want to configure a master item.
2. Click **Add** or select an existing master item and then click **Edit**.
3. Configure the master item:
   a. Configure the **Name**, configure a prefix to add to items belonging to the master item in **Account Prefix**, and then select the **Master Group** from the drop-down list.

b. Do not change the **POS Ref #**. Reporting and Analytics generates the reference ID.
c. Select categories for the **Selected Hierarchy** and the **Assigned Group** levels.

Manual Item Alignment

To perform manual item alignment in Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Warehouse Admin**, click **Alignment**, and then click the type of database item. If the organization is configured to match family group or major group, you must perform alignment in the order of family group, major group, and then menu items.

I want to	Then do
Filter the list of master items.	Click **Options**.
Align an item.	1. Click the master item from the **Master Items** list. 2. Click the unaligned item from the **Unaligned Items** tab, and then click **Align**.
Change the alignment of an item.	1. Click the master item from the **Master Items** list. 2. Click the item from the **Aligned Items** tab, and then click **Transfer**. 3. In the **Select destination master item** window, click the destination master item, and then click **OK**.
Designate an aligned item as an alias.	If the alignment rule allows menu item aliasing: 1. Click the master item from the **Master Items** list. 2. Click the item from the **Aligned Items** tab, and then click **Alias**.
Unalign an item.	1. Click the master item from the **Master Items** list. 2. Click the item from the **Aligned Items** tab and then click **Unalign**.
Merge master items.	1. Click the master items from the **Master Items** list and then click **Merge**. 2. In the **Select master item** dialog box, click the master item you want to keep, and then click **OK**.
Designate an unaligned item as a master item.	1. Click an item from the **Unaligned Items** tab and then click **Create Master**. 2. Fill out the **Create Master** form and then click **OK**.
Configure alignment rules.	1. Click **Modify Rules**. 2. Fill out the form and then click **Create**.
Run the alignment process immediately.	Click **Run Alignment**.

Configure Tender Media Master Items for Daily Operations Report

1. In Reporting and Analytics, click the side navigation menu, click **Configuration**, and then click **Warehouse Admin**.
2. Click **Master Items** and then click **Tender Media Master**.
3. Select the tender and then click **Edit.** For each of the following tenders, configure the corresponding type and subtype:
   - Tenders that represent cash payments
     – **Type**: select **Payment**.
     – **Subtype**: select **Cash**.
   - Tender media that represent tips paid
     – **Type**: select **Pickup**.
     – **Subtype**: select **Tips Paid**.
   - Tender media that represent deposits
     – **Type**: select **Pickup**.
     – **Subtype**: select **Deposit**.
4. Click **Save**.

9

Financial Calendars and Day Parts

Set up day parts and define the financial calendar.

Reporting and Analytics uses the following time intervals for reporting and calculating data:

- Calendar: you can perform calculations based on standard calendar intervals, such as years, months, and weeks.
- Financial Calendar: you can configure financial calendars and financial years to perform configurations on fiscal intervals, such as fiscal years and fiscal quarters.
- Day Parts: you can divide workdays into day parts to perform calculations on different time intervals, such as breakfast periods, lunch periods, and dinner periods.

Financial Calendars

The sales information received by Reporting and Analytics from the POS application is processed each business day, as configured by the end-of-day (or end-of-night) operations.

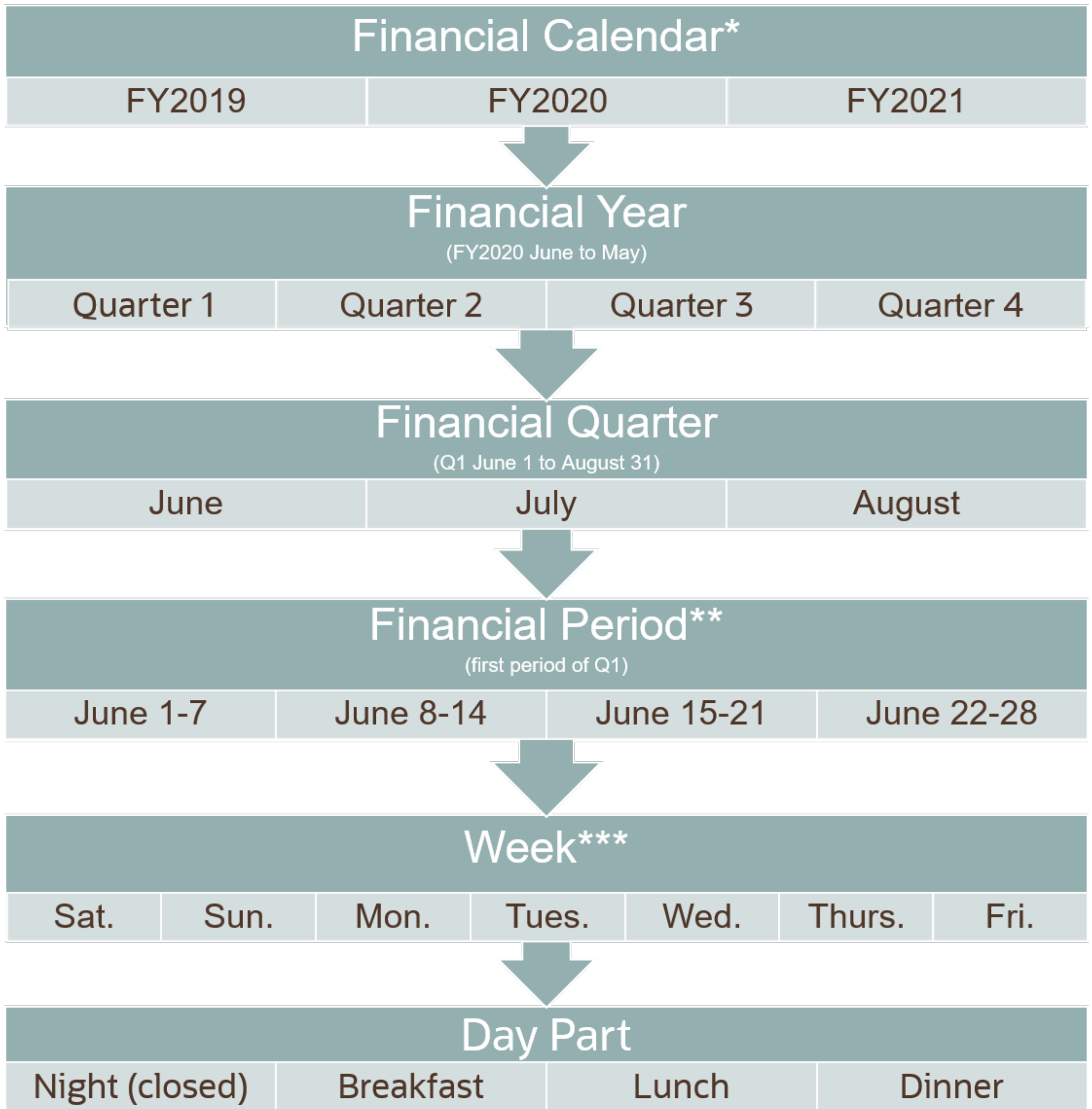
For example, if a location is configured to perform end-of-day operations every night even when it is closed on weekends, the application creates Saturday and Sunday as business days with no sales values, resulting in a seven-day week. If a store is configured to perform end-of-day operations every week day, the application only creates Monday to Friday, and the empty sales values from Saturday and Sunday are rolled into Monday, resulting in a five-day week.

The Reporting and Analytics financial calendar organizes the business dates within the following defined fiscal year components:

- The start and end of the fiscal year. Financial calendars also define how to handle the surplus day(s) at the end of the year.
- The start and end of each financial quarter.
- The start and end of each financial period.
- The accounting cycle of weeks in each financial period.
- The starting day of each week.

Defining fiscal year components, rather than using calendar months, ensures consistent calculations and comparisons across multiple months. Calendar months have inconsistent numbers of weeks and days, making comparison across multiple months less meaningful. A defined financial period consists of four or five weeks, depending on the accounting cycle, and each period includes the same number of each day of the week. This results in a meaningful comparison of values across periods.

The following illustration shows the components of a financial calendar:



* The financial calendar can be assigned to an organization level and location, with the location settings overriding the level settings.

** The length of a financial period depends on the accounting cycle selected for the financial year. Financial periods are defined by the number of weeks since the start of the financial quarter, and do not correlate to any one specific calendar month.

***The first business day of the financial year determines the starting day of the financial week. For example, if a financial year begins Saturday, June 1, every financial week begins on Saturday and ends on the following Friday.

Accounting Cycles

The number of weeks in each financial period is determined by the accounting cycle. In Reporting and Analytics, accounting cycle options include:

- 4/4/5
- 5/4/4

- 4/5/4
- 4/4/4

The 4/4/5 accounting cycle consists of a four-week financial period, another four-week financial period, and a five-week financial period. Each financial quarter consists of these 3 periods, for a total of 12 financial periods for the entire fiscal year.

The 4/4/4 accounting cycle consists of only four-week financial periods. This requires an additional financial period to complete the fiscal year, for a total of 13 fiscal periods.

Last Week of the Financial Year

Depending on the number of days in a financial week generated by your POS end-of-day operations, the last week of the year can consist of more than seven days. You can configure Reporting and Analytics to handle the extra days in one of two ways:

- **Add extra days to the last week**: By default, Reporting and Analytics creates an extended week with more than seven days.
- **Create a new financial week with the extra days**: You can select this option to create an additional week containing the additional days.

Creating a Financial Calendar

1. Create the Financial Calendar for your organization or location:
   a. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Warehouse Admin**, click **Miscellaneous**, and then click **Financial Calendars**.
   b. Click **Add**, enter a **Name** for the calendar, and then click **Save**.
2. Add a financial year to the calendar:
   a. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Warehouse Admin**, click **Miscellaneous**, and then click **Financial Periods**.
   b. Select the financial calendar and click **Configure**.
   c. Click **Add Year Automatically** to use the creation wizard, or click **Add Year Manually** to manually enter all financial year.
3. Set the **Financial Calendar** field for locations and levels in the organization.

   Locations inherit the financial calendar setting for the level to which they belong. You can set an overriding financial calendar directly for the location.

Creating a Financial Year with the Automated Wizard

1. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Warehouse Admin**, click **Miscellaneous**, and then click **Financial Periods**.
2. Select the calendar for which you want to define the financial periods and then click **Configure**.
3. Click **Add Year Automatically** and then fill out the form as described in the following table:

Field	Description
Year Name	Enter a name for the financial year.

Field	Description
Year Number	Enter an order in the list. The financial calendar lists the financial years in an order based on this field.
Year Start Date	Enter or select the first day for the year.
Year End Date	Enter or select the last day for the year.
Accounting Cycle	Select the accounting cycle for the year: • 4/4/5 • 5/4/4 • 4/5/4 • 4/4/4

4. If there are more than seven days in the last week of the year, you can select **Add extra days to the last week** to combine the extra days into the week, or you can select **Create a new financial week with the extra days** to create a new reporting week.

   If you do not select either option, the system implements **Add extra days to the last week**.

Creating a Financial Year Manually

1. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Warehouse Admin**, click **Miscellaneous**, and then click **Financial Periods**.
2. Select the calendar for which you want to define the financial periods and then click **Configure**.
3. Click **Add Year Manually**, and then enter a **Name** and **Number** for the year.
4. Click **Add New Period** to add a new row to the table of periods, then enter a name for the period, the ordering number for the period, and the fiscal quarter to which the period belongs.

Day Parts

Day parts separate the business day into smaller periods of time. They are used for reporting, comparison, and filtering business-critical metrics throughout the business day or between business days.

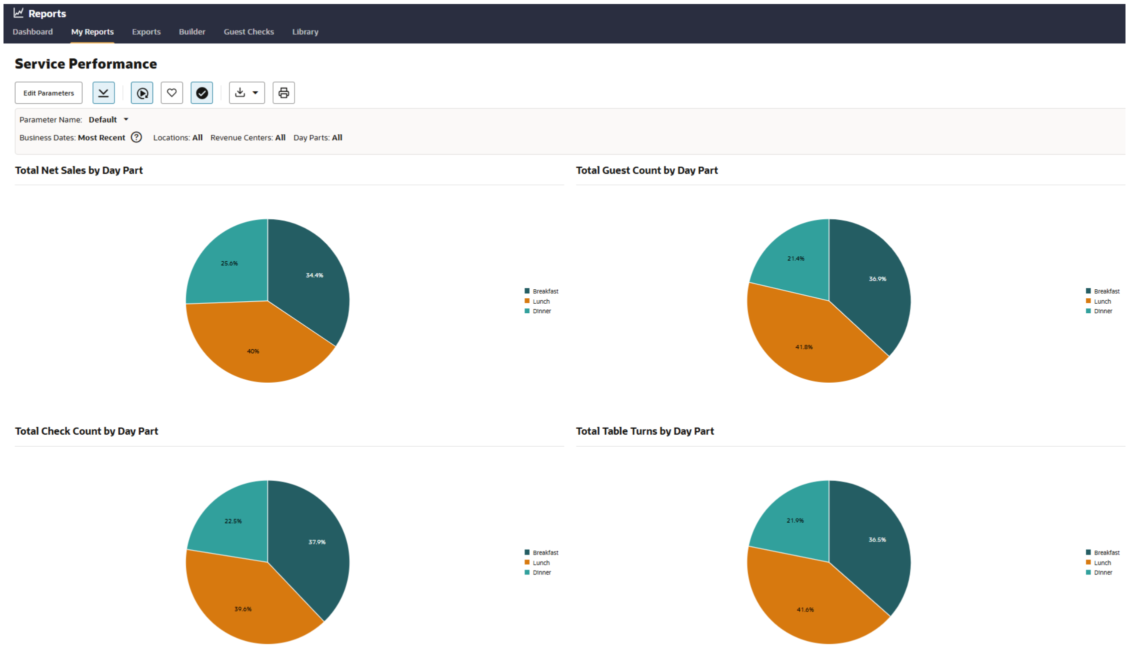
Day parts are configured for the enterprise and cannot be different by location or revenue center.

A typical example configuration includes Breakfast, Lunch, Dinner, and Night.

If the enterprise does not want or need to use day parts for reporting purposes, they still need an “All Day” day part which covers all 24 hours of the day.

> **Important**
>
> Day parts are a required configuration for every enterprise. Without day parts configured, some reports may not function properly and display `No data is available for the defined parameters`.

The following figure shows a Service Performance report that consists of sales and operational metrics in pie chart format. The pie charts are comprised of slices that correspond to day parts.



Creating Day Parts

1. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Warehouse Admin**, click **Miscellaneous**, and then click **Day Part**.
2. Click **Add** and fill out the form as described in the following table:

Field	Description
Name	Enter a name for the day part. This is the name as it will appear on reports and in the day part filter.
Beginning Fixed Period	Select the start time for the day part.
Ending Fixed Period	Enter the end time for the day part, making sure the time does not overlap with the start time.
Report Display Order	Enter the order in which reports list the day part. Different day parts should have different numbers assigned.
Apply To	Select or deselect the days of week for which this day part applies. You can click **Clear Days** to deselect all days.

3. Verify that the day part does not overlap other day parts.
4. Verify that the day parts cover all hours of a business week, otherwise reports may not balance since sales during times not covered in any day part are not included.

   If there are untouched hours, the Day Part page shows the following message:

   ```
   Warning: The day parts you've setup do not cover all fixed periods
   and days of the week. Please review documentation for additional
   details.
   ```

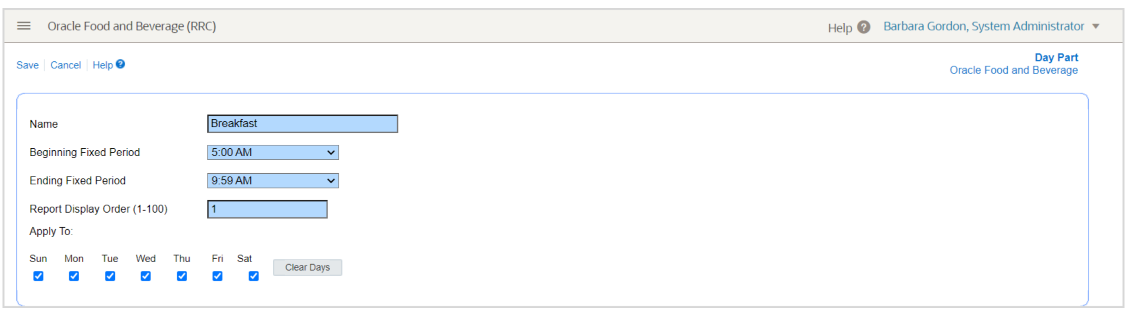
Example Configurations

Example: Typical Configuration

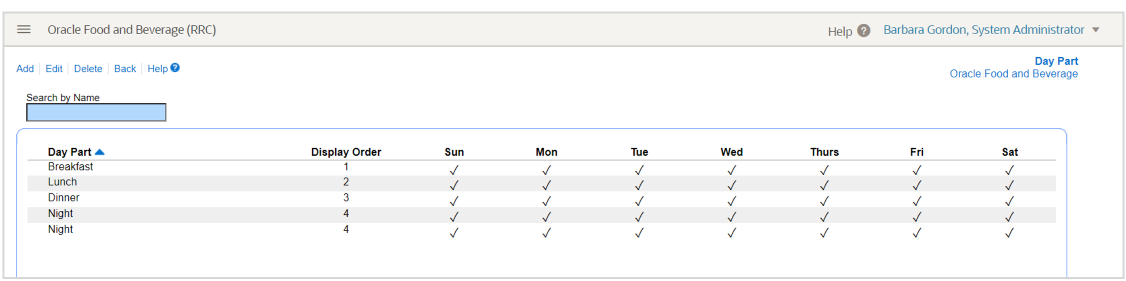
> **Note**
>
> The Night day part extends past midnight. To accomplish that, configure two day parts with the same name and the same sort order. On reports they look like a single day part.

Day Part	Beginning Fixed Period	Ending Fixed Period	Report Display Order	Apply To
Breakfast	5:00AM	9:59AM	1	All days
Lunch	10:00AM	2:59PM	2	All days
Dinner	3:00PM	8:59PM	3	All days
Night	9:00PM	11:59PM	4	All days
Night	12:00AM	4:59AM	4	All days

The following image shows the configuration for the Breakfast day part:



The following image shows the configuration for the Night day part that extends past midnight:



Example: Configuration Where Day Parts are not Used for Reporting

If your enterprise does not use day part reporting, you still need to create a day part that spans all 24 hours of the day. The following table shows an example configuration:

Name	Beginning Fixed Period	Ending Fixed Period	Report Display Order	Apply To
All Day	12:00AM	11:59PM	1	All days

Troubleshooting

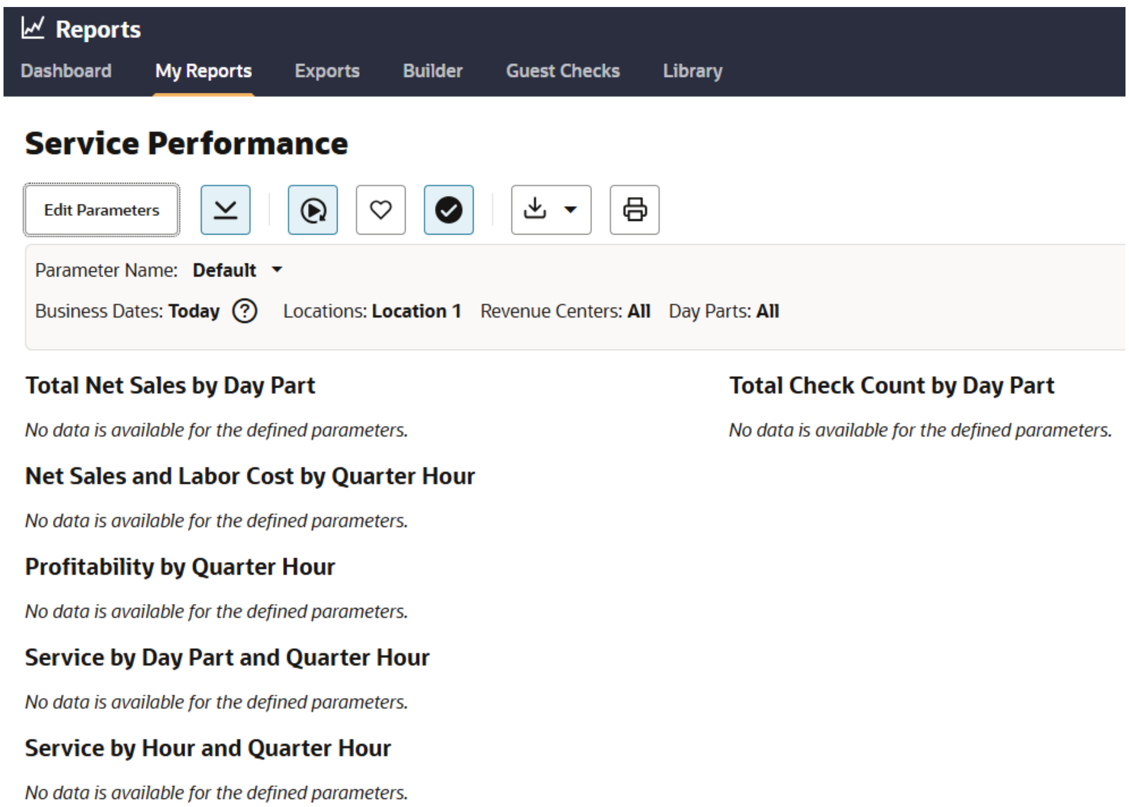
This topic describes report issues that could be caused by incorrect day part configurations and provides corrective actions.

Reports display `No data is available for the defined parameters`

Make sure to filter the report for business dates on which you know the location was open and actively trading. If data is still not returned, this may be caused by no day parts configured for the enterprise.

Solution: Configure at least one All Day day part from 12:00AM to 11:59PM and verify the reports again.

The following image shows how the Service Performance report is displayed if no day parts are configured:

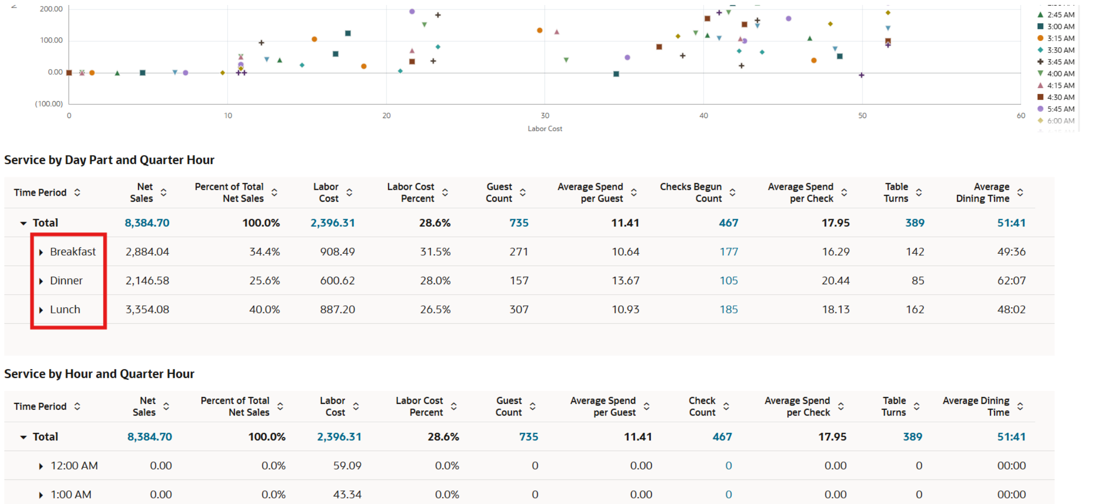


Reports do not show the day parts in the right order

When running a report, the day parts are listed out of chronological order; for example, Breakfast shows between Dinner and Lunch.

Solution: Review the sort order of the day parts. Make sure you assign a different number to each day part (except for day parts overlapping midnight) and assign them in the chronological order you want them to appear on reports.

The following image shows day parts in the wrong order on a report:



Service by Day Part and Quarter Hour

Time Period	Net Sales	Percent of Total Net Sales	Labor Cost	Labor Cost Percent	Guest Count	Average Spend per Guest	Checks Begun Count	Average Spend per Check	Table Turns	Average Dining Time
Total	**8,384.70**	**100.0%**	**2,396.31**	**28.6%**	**735**	**11.41**	**467**	**17.95**	**389**	**51:41**
Breakfast	2,884.04	34.4%	908.49	31.5%	271	10.64	177	16.29	142	49:36
Dinner	2,146.58	25.6%	600.62	28.0%	157	13.67	105	20.44	85	62:07
Lunch	3,354.08	40.0%	887.20	26.5%	307	10.93	185	18.13	162	48:02

Service by Hour and Quarter Hour

Time Period	Net Sales	Percent of Total Net Sales	Labor Cost	Labor Cost Percent	Guest Count	Average Spend per Guest	Check Count	Average Spend per Check	Table Turns	Average Dining Time
Total	**8,384.70**	**100.0%**	**2,396.31**	**28.6%**	**735**	**11.41**	**467**	**17.95**	**389**	**51:41**
12:00 AM	0.00	0.0%	59.09	0.0%	0	0.00	0	0.00	0	00:00
1:00 AM	0.00	0.0%	43.34	0.0%	0	0.00	0	0.00	0	00:00

Reports only show one day part with all sales for the day

When running a report, only one of multiple configured day parts are displayed, and the sales totals are more than you expect for the single day part.

Solution: This issue is caused by assigning the same sort order to all day parts. Only one day part is displayed. Make sure to assign different sort order numbers to each day part (except the day part that extends past midnight).

Day part configuration page displays `Warning: The day parts you've setup do not cover all fixed periods and days of the week. Please review documentation for additional details.`

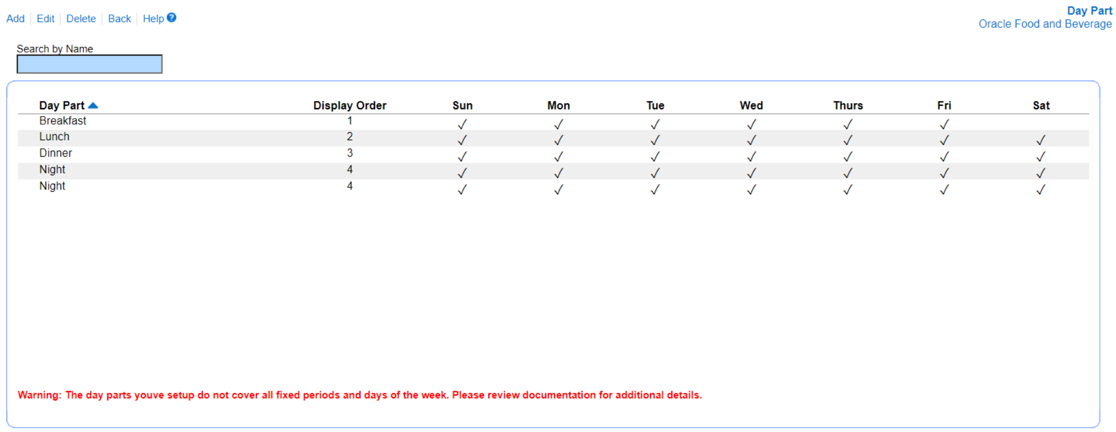
This is caused by an incomplete setup and can result in reports not balancing if sales are made during the days or hours that are not covered.

Solution: Review each day part configuration to make sure that:

- All days of the week are covered with a day part.
- The configuration did not miss a quarter hour or more. Each day part should start at the same time the previous day part ended.

After you correct the configuration, the warning message disappears.

The following image shows a configuration page with the warning message. In this case, the issue is caused by Saturdays not being covered by the Breakfast day part.


Add | Edit | Delete | Back | Help
Day Part
Oracle Food and Beverage
Search by Name
Day Part | Display Order | Sun | Mon | Tue | Wed | Thurs | Fri | Sat
Breakfast | 1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
Lunch | 2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓
Dinner | 3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓
Night | 4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓
Night | 4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓
Warning: The day parts youve setup do not cover all fixed periods and days of the week. Please review documentation for additional details.

10 Currency and Exchange Rate

Set the type of currency and exchange rate.

You can enter as many types of currency as needed by the organization to control and analyze financial data. If your organization uses multiple currencies, you need to create exchange rates.

Follow the steps in the order they appear below:

Enabling Currency Configuration

1. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Warehouse Admin**, click **Miscellaneous**, and then click **Enterprise Options**.
2. Select **Enable Common Currency**.
3. Click **Save**.

Adding a Currency Type

1. Make sure you enabled common currency.
2. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Warehouse Admin**, click **Miscellaneous**, and then click **Currency**.
3. Click **Add**.
4. Fill out the form as described in the following table:

Field	Description
Currency Name	Enter the name of the currency type. For example, `American Dollar`.
Abbreviation	Optionally, enter an abbreviation for the currency. For example, USD.
Multiply	Select to multiply the currency against the base currency.
Round To	Enter the number of decimal places for rounding in the 0.0 format. For example, `0.00` to round to two decimal places and `0.0` to round to one decimal place.

5. Click **Save**.

Setting the Common Currency

1. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Warehouse Admin**, click **Miscellaneous**, and then click **Enterprise Options**.

2. Select the currency type from the **Common Currency** drop-down list.

   This is the currency to which other currencies are exchanged and converted.
3. Click **Save**.

Setting a Location's Currency

1. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Portal Admin**, click **Organizational Structure**, and then click **Locations**.
2. Select the location and then click **Edit.**
3. In the **Currency** field, select the currency for this location.
4. Click **Save**.

Adding and Updating Exchange Rates

1. Make sure you enabled common currency.
2. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Warehouse Admin**, click **Miscellaneous**, and then click **Exchange Rate**.
3. Search for or select a currency and click **Configure**.
4. On the Exchange Rate Administration page, click **Add**, or select an existing exchange rate and then click **Edit**.
5. Fill out the form as described in the following table:

Field	Description
Business Date	Enter or select the date on which this exchange rate goes into effect.
Business Date	Optionally, enter or select the date on which this exchange rate stops being used for calculations.
Exchange Rate	Enter the multiplier relative to the base currency.

6. Click **Save**.

11
Scheduled Reports

You can use Report Mail to schedule reports to run at a specified date and time, and to distribute the report by email to a person or role.

For example, you can configure Report Mail to generate and send a report every morning that summarizes operations from the previous business day. This lets you access reports on a regular basis without logging into Reporting and Analytics or manually running the report.

> **Note**
>
> Chart visualizations are not included in Report Mail.

Scheduling Reports for Email Distribution

Set up report mail and define how often the emails are sent.

1. In Reporting and Analytics, click the side navigation menu, click **Configuration**, click **Report Mail**, and then click **Report Mail**.
2. Click **Add**.
3. Within the **Content** tab, specify email content as described in the following table:

Setting	Description
Type	Select the report type.
Report Selection	Select the report. If the list of reports is long, specify search criteria to locate the report.
Preferences	• Specify delivery preferences. The report you select determines the preferences that appear. • If you select multiple locations, one report is sent for each location. • Select **Consolidated** to send one email with aggregate report data for all locations. • By default, each report is sent in a separate email. If you want one email with all report files, then select **Zip multiple files**. • Select the **Output Type** and **Date Selection**. • Depending on the report you select, there may be additional selection options.

4. Click the **Name** tab and then specify email settings as described in the following table:

Field	Description
Name	Enter the name of the report email that identifies it in Reporting and Analytics.
Description	Enter a description of the report email that identifies it in Reporting and Analytics.
Subject	Enter the email subject line.
Active	Select to send the email. Deselect to stop report email, but save the settings.
Email When Error	Select to notify the system administrator of report email errors.

5. Click the **Recipients** tab and then select the email recipients.

   If you want to send the email to more than one user, select the first user, select **Additional recipient(s) emails**, and then enter the email addresses.

6. Click the **Frequency** tab and then specify how often report emails are sent as described in the following table:

Field	Description
Precondition	Select the **End of Day** option if you want the system to verify that the end of day has been completed before sending the report mail.
Frequency Type	Select how often the report mail will be emailed.
Time Zone	Select the time zone.

   Depending on your system configuration, Reporting and Analytics can run scheduled reports and send report emails after a service outage. Reports scheduled to run more than once during the interval only run once with the last set of information. If the business date changed during the service outage, all reports are run as if they were scheduled to run on the current day. For example, the Daily Operations report will show information for the most recent business date rather then retrieving information for the day that the service outage occurred.

7. Click **Save**.

12

Export Data from Reporting and Analytics

Set up the data export process and run exports to an endpoint to manage data.

Self-service exports let you extract data from the Reporting and Analytics database to a file and then deliver the file to an endpoint through SFTP or through posting to a URL over an HTTPS connection. The export configuration contains code for querying the database and defines the format of the exported data. You associate an export schedule with the configuration to specify the enterprise locations from which data is exported, export frequency, and how the data file is delivered to the endpoint.

The **Exports** tab houses the export summary page, which shows status across all export configurations for your enterprise. You can drill down to view more details by clicking on the numbers associated with each status.

Within the **Export Metrics** page you can:

- Filter status by selecting an execution time frame for a specific configuration.
- View export configurations by location by clicking on a status. For example, click **Failed** to view all configurations by location that failed.
- Search export results by export configuration and schedule or you can search for results of on-demand exports.

Other actions related to exporting data can be found in side menu of the **Exports** tab.

Export Configurations

Add subject areas to the configuration, add code that queries the database, specify the format of the exported data.

Adding an Export Configuration

Required system privileges: **Export Configurations**, **Add/Edit/View/Delete Export Configurations**.

1. In Reporting and Analytics, click the side navigation menu, click **Reports**, click **Exports**, click **Configurations**, and then click **Add Export Configuration**.
2. Enter a configuration name and then click a creation method.
   - To add a new configuration, click **New**.
   - To copy an existing configuration and then modify it, click **Copy**, and then select the source configuration.
   - To copy a core export configuration and then modify it, click **Core Exports**, and then select a template.

   When you copy a configuration or use a core export configuration as a template, you can preview the subject areas and steps (the code for querying the subject areas in the database) for the source and you can also preview the final result.

3. Click **Add**.
4. Define the subject areas for your configuration.

   For a new configuration, to add a subject area, click **Add** in the Subject Areas section. Select the category, subject area, and version. To work with actual data from your Reporting and Analytics database, click the **Actual** data type. If you do not have permissions to work with actual data, only the **Sample** data type is available.

   If you copied an existing configuration or used a core export configuration template, you can click a subject area menu to edit or remove the subject area. Depending on your export requirements, you can also add new subject areas to a copied configuration.
5. Define the steps for your configuration.

   A step contains the Apache Drill SQL code for selecting subject area data in the Reporting and Analytics database.

   For a new configuration, Reporting and Analytics automatically adds the first step. Enter the code in the code text area. Keep the following points in mind when entering code:

   - The subject area being queried needs opening and closing parentheses after the alias name. The alias name is shown on the left side of the screen after the subject area has been added and expanded. The value after **Table:** is the alias.
   - In the SELECT statement, it is a best practice to specifically select each required column. Avoid using the following in a drill step: `SELECT * FROM <subject area alias>`. Otherwise integrations may break when new columns are added to an existing subject area.

   The following example shows code for selecting JSON fields from a subject area:

```
SELECT
  'DSC' as `Record Type`,
  COALESCE(DD.revenueCenterNum, 0) AS `Revenue Center Number`,
  COALESCE(DD.discountNum, 0) AS `Discount Number`,
  COALESCE(DD.discountName, ' ') AS `Discount Name`,
  COALESCE(DD.discountTotal, 0) AS `Total`,
  COALESCE(DD.discountCount, 0) AS `Count`,
  COALESCE(DD.discountMasterName, ' ') AS `Discount Master Name`,
  COALESCE(DD.discountMasterNum, 0) AS `Discount Master Number`,
  COALESCE(DD.revenueCenterName, ' ') AS `Revenue Center Name`,
  COALESCE(DD.revenueCenterMasterName, ' ') AS `Revenue Center Master
Name`,
  COALESCE(DD.revenueCenterMasterNum, 0) AS `Revenue Center Master Number`,
  COALESCE(DD.discountGrossVat, 0) AS `Discount Gross VAT`
FROM discountDailyTotals3() DD
```

   > **Note**
   >
   > The alias for a step can't be changed. The output of a step can be referenced in subsequent steps. For example, to reference Step 1, use the alias `step1`. Because of this, only the last step in the sequence can be deleted.

   To add a step, click **Add Step**, enter a step name, and then add the query code.

   To test the query, click **Test All Steps** or **Test Step** to execute an individual step's code. If one step references another step, then click **Test All Steps**.

To exclude a step when testing the query, deselect **Enabled**. Select **Enabled** again to include the step in the final output.

To exclude step query results from the output, deselect **Include in export**.

To add custom JavaScript code to format the output, click **Add JavaScript Step**, and then enter the JavaScript code in the code text area.

6. Save your changes and then click **Results** to specify the format of the exported data.

   To export to a JSON file without formatting, click **JSON**.

   To export to a file with fields separated by a delimiter, click **Delimited** and then enter the delimiter in the **Delimiter Value** field.

   - Optionally, specify a single-character text qualifier that encloses each value.
   - To include column header names in the output, select **Include headers**.
   - To prevent parsing issues while importing export data in third-party systems, select **Remove delimiter character from all strings**.
   - Optionally, specify file or location trailer or header by selecting **Optional Settings**. This adds the defined string at the beginning or end of each export file, or at the beginning or end of each location's exported data. Supported replacement tokens are displayed when selecting each field. This option is intended to be used in conjunction with export schedule parameter **Combine locations into single output file**.

   To export to a tab-delimited file, click **Tab Delimited**. Other available options are the same as delimited export format.

   To export to an XML file, click **XML**.

   - Click the **Mapping** drop-down and select the XML structure for the output file:
     - **Xml Node Mapping**: Makes the output of each step a parent node. The row alias name of the step output is the name of the child node as defined in final output JSON.
     - **Xml Node Attribute Mapping**: Makes the output of each step a parent node and records child nodes. The row alias name of the step output is the name of the child node as defined in final output JSON.
     - **Xml Table Mapping**: Makes the output of each step a table.
   - To include column header names in the output XML, select **Include Headers** and enter the headers in the code text area.
   - To include location name, location reference, and location ID information in the output, select **Include location separator**. This option is intended to be used in conjunction with export schedule parameter **Combine locations into single output file**.
   - Space characters are not allowed in the configuration name when choosing XML formatting.

7. To preview the results, click **Run and See Results**.

   > **Note**
   >
   > The result preview only displays the first 10 records. To see the full export results, generate an export by clicking **Export Results**.

8. To generate a one-time export of the final results, click **Export Results**. On the next screen define a file name, choose to compress or encrypt the results, select a delivery profile, and then click **Export**.

9. Save your changes and then add an export schedule.

   The export schedule defines when the system runs the export, which locations are included, and how the system delivers the exported data file to the end point.

Deleting an Export Configuration

Required system privileges: **Export Configurations**, **Add/Edit/View/Delete Export Configurations**.

You must be the owner of the export configuration to delete it and the configuration can't be active, or have an export schedule linked to it.

1. In Reporting and Analytics, click the side navigation menu, click **Reports**, click **Exports**, click **Configurations**, and then click the configuration in the list.
2. Click **Delete** and then click **Delete**.

Changing the Export Configuration Owner

Required system privilege: **Transfer Configuration**.

1. In Reporting and Analytics, click the side navigation menu, click **Reports**, click **Exports**, click **Configurations**, and then click the configuration in the list.
2. Click **Owner**.
3. Select the new owner from the **New Owner** drop-down list and then click **Save**.

   The new owner must have the **Transfer Configuration**, **Export Configurations**, and **Add/Edit/View/Delete Export Configurations** system privileges.

Best Practices

To ensure the best possible performance and prevent the known "Code too large" error message during export execution, follow these best practices:

Simplify Query Logic:

Reduce unnecessary computations and transformations within the SQL query. For example, in a query that needs aggregated values, a HAVING clause can be changed to a WHERE clause to filter records before doing the aggregation. Complex text transformations and formatting can also be handled within the optional JavaScript step.

Before:

```
SELECT column1, COUNT(*) as count FROM step1() GROUP BY column1 HAVING
column1 = 'sample'
```

After:

```
SELECT column1, COUNT(*) FROM step1() WHERE column1 = 'sample' GROUP BY
column1
```

Break Down Complex Expressions

Split lengthy expressions into smaller, manageable segments. One option includes splitting a large CASE logic into multiple steps and combining the output of multiple steps in a subsequent step of the configuration:

```
SELECT column1, column2, column3 FROM step1() UNION ALL SELECT column1,
column2, column3 FROM step2()
```

Optimize SELECT Clause

Minimize nested calculations and redundant operations, and use Joins instead of IN clauses.

Before:

```
SELECT column1, column2, column3 FROM step1() WHERE column3 IN (SELECT col
FROM step2() WHERE name = 'Hello')
```

After:

```
SELECT column1, column2, column3 FROM step1() a JOIN step2() b ON a.column3 =
b.column3 WHERE b.name = 'Hello'
```

Also consider using data mapping instead of hard coding computations or large CASE statements.

Adding a Location Group

Specify a group of locations for which an export configuration exports data. Create a location group before adding an export schedule.

Required system privileges: **Location Groups**, **Add/Edit/View/Delete Location Groups**, and either **View Schedules** or **Add/Edit/View/Delete Schedules**.

Additional system privilege to transfer ownership of the location group: **Transfer Ownership of Location Groups**.

1. In Reporting and Analytics, click the side navigation menu, click **Reports**, click **Exports**, click **Schedules**, and then click **Manage Location Groups**.
2. On the Manage Location Groups page, click **Add Location Group**.
3. Enter a name for the location group.
4. Select the level or location that you want to add to the group.
5. Click **Add**.

Delivery Profiles

Overview

Specify delivery through SFTP or HTTPS, define destination settings such as the server location for SFTP or the URL for HTTPS, and specify authentication details. A delivery profile must be added before adding an export schedule.

Prerequisites

Required system privileges: **Export Schedules**, **Add/Edit/View/Delete Delivery Profiles**, and either **View Schedules** or **Add/Edit/View/Delete Schedules**.

Additional system privilege to transfer ownership of the delivery profile: **Transfer Ownership of Delivery Profiles**.

Adding a Delivery Profile

Required system privileges: **Export Schedules**, **Add/Edit/View/Delete Delivery Profiles**, and either **View Schedules** or **Add/Edit/View/Delete Schedules**

You need to select a delivery profile when you add an export schedule. Add the delivery profile before adding the export schedule.

The owner of the delivery profile needs to have all data permissions assigned to access and export data from all subject areas used within the export configuration.

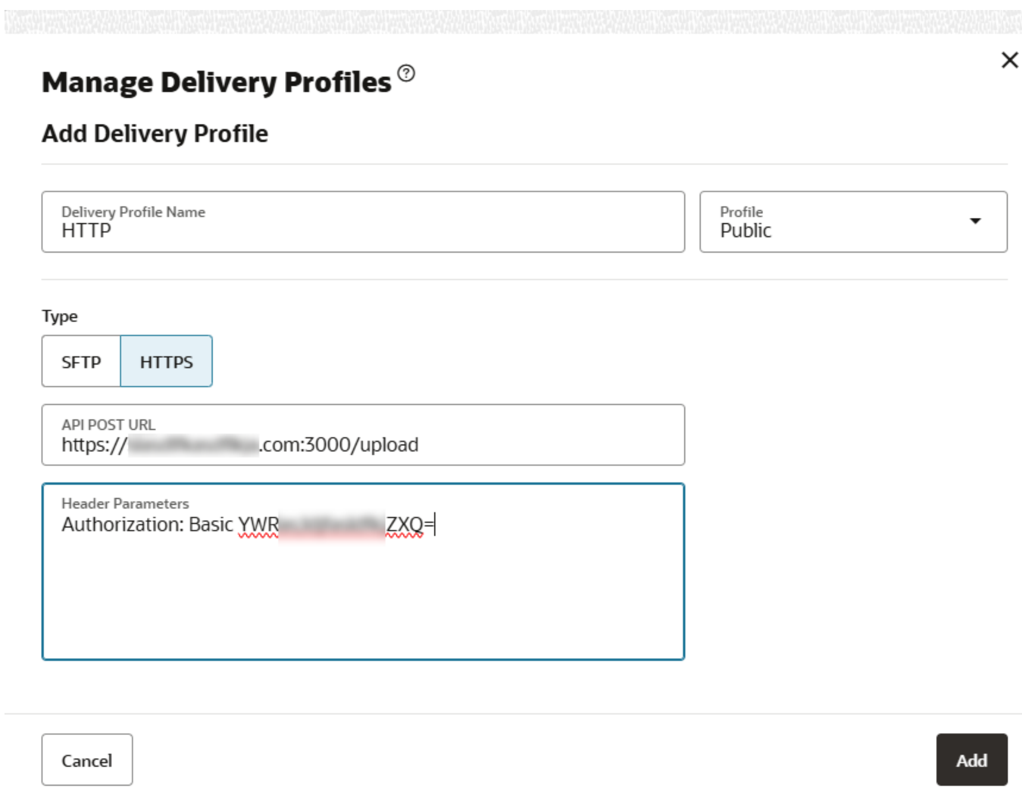
1. In Reporting and Analytics, click the side navigation menu, click **Reports**, click **Exports**, click **Schedules**, and then click **Manage Delivery Profiles**.
2. On the Manage Delivery Profiles page, click **Add Delivery Profile**.
3. Enter a profile name and specify if the profile is public or private.

   Only the owner of a private delivery profile can add it to a schedule or change the assignment in a schedule.
4. Select the delivery type.
   - For delivery through SFTP, specify the destination server, port number (if different than 22), and folder path on the server. If you authenticate with a certificate, paste the certificate in the **SSH Private Key** text box. If you edit the profile at a later time, the key value does not show in the text box, only text that mentions a key exists shows in the text box. To change the private key, paste the new private key in the text box and then click **Save.** If you authenticate with credentials, specify the user name and password.

> **Note**
>
> – The folder path supports alphanumeric characters as well as the following special characters: !/@&#%+^=~-'`.,;_()[]{}space.
>
> – A slash symbol (/) in the folder path creates or refers to a subfolder.
>
> – You can only use private keys in an OpenSSH format when authenticating with a certificate.
>
> – If you are using your own sFTP server, ensure it supports up-to-date SSH cipher suites. See 20.1.15 Features and Updates for the complete list of supported cipher suites.

- For delivery through HTTPS by posting to a URL, specify the URL of the receiving web service and then specify optional header parameters. Include header attributes in the post using token. Header parameters should be formatted as <key>: <value>. Separate multiple parameters by a line break between each header parameter. The export file name will be posted to the web service as a header parameter: filename: <file name as specified in the export schedule>.

  Example: A basic authorization to the external web service could be specified as: Authorization: Basic <authorization key>.



Assigning a Delivery Profile to a Schedule

Required system privileges: **Export Schedules**, **Add/Edit/View/Delete Delivery Profiles**, and either **View Schedules** or **Add/Edit/View/Delete Schedules**

You need to select a delivery profile when you add an export schedule, so first add the delivery profile before adding the export schedule.

Because the delivery profile defines where data exported from Simphony is delivered to, the system ensures that whoever defines that endpoint has the required permissions to access the exported data.

The following must be true so that the schedule can be validated and activated:

- The owner of the delivery profile needs to have all data permissions assigned to access and export data from all subject areas used within the export configuration.
- The owner of the delivery profile also needs to have access to all locations within the organizational level, the location group, or any individual location configured within the export schedule.

Deleting a Delivery Profile

Required system privileges: **Export Schedules**, **Add/Edit/View/Delete Delivery Profiles**, and either **View Schedules** or **Add/Edit/View/Delete Schedules**

You must be the owner of the delivery profile to delete it and the profile can't have an export schedule linked to it.

1. In Reporting and Analytics, click the side navigation menu, click **Reports**, click **Exports**, click **Schedules**, and then click **Manage Delivery Profiles**.
2. Click **Delete** for the delivery profile you want to remove.

Changing the Delivery Profile Owner

Required system privilege: **Transfer Ownership of Delivery Profiles**.

1. In Reporting and Analytics, click the side navigation menu, click **Reports**, click **Exports**, click **Schedules**, and then click **Manage Delivery Profiles**.
2. Click the name of the owner in the **Owner** column.
3. Select the new owner from the **New Owner** drop-down list and then click **Save**.

   The new owner must have the **Transfer Ownership of Delivery Profiles** and **Add/Edit/View/Delete Delivery Profiles** system privileges.

Export Schedules

Specify the enterprise locations for which an export configuration exports data, sets the export frequency and recurrence, and specify how the system delivers the exported data file.

Overview

An export schedule defines the specific locations for an export, the time, the frequency of the export configuration, and where to deliver the export.

It also defines the export file name and if the export is compressed or encrypted.

When you activate the export itself, the delivery options are validated. An active schedule needs to be deactivated to make changes.

Failed Schedules

If a new export schedule fails to execute or deliver for three consecutive executions, for the complete location scope, it is deactivated and the owner of the schedule receives a notification email. Previously working schedules that start failing are deactivated after seven consecutive failures and the owner is notified.

Adding an Export Schedule

Required system privileges: **Export Schedules** and **Add/Edit/View/Delete Schedules**.

When you add an export schedule, you select a delivery profile and you can select a location group. Add the delivery profile and location group before adding the export schedule.

1. In Reporting and Analytics, click the side navigation menu, click **Reports**, click **Exports**, click **Schedules**, and then click **Add Export Schedule**.
2. Specify a name for the schedule, select an export configuration, and then click **Add**.
3. If you do not need to immediately run the export configuration with the schedule you are creating, leave the default status as **Inactive**. See Step 10 for instructions to validate and activate the export schedule.
4. In the **Location Scope** section, select the locations for which data is exported.

   Choose from individual locations, all locations underneath the selected organizational level, or a custom group of locations.

   To export data for a group of locations, you need to create the location group first before you can select it from the **Location Group** drop-down.

   To include inactive locations in an export, select **Include inactive locations in level / location group**.

   To generate a single export file, select **Combine locations into single output file**. This option enables separate trigger options to define when the export is run and which locations will be included in a file.
5. In the **Frequency** section, set the export **First Run Date**, **Run Time**, **Target Time**, **Recurrence** type, and **Time Zone**.

> **Note**
>
> - If the **First Run Date** is set to the past, the export engine runs the export starting from the selected date until the current date when the schedule is first activated. It then continues to run based on the recurrence type and export the most recent data. The first run date can be set to a maximum of 35 days (5 weeks) in the past. If historical data beyond this needs to be export, use the on-demand functionality and manually run the schedule for the required dates or date ranges.
> - The **Run Time** with **Time Zone** defines the time that the schedule starts executing. Depending on the **Conditions** settings, it executes at the set time, or it starts checking for end of day conditions starting at the set time.
> - The **Target Time** should be set to the time when downstream systems expect the export to be completed for all selected locations. It is used within the **Notifications** emails.
> - Depending on the recurrence type you selected, different options become available in the **Recurrence** section below to configure the day of the export run.

> **Important**
>
> Review each location's time zone and schedule time zone. Schedule the export for at least two hours after the last location's start of day (SOD) time.

6. Select the recurrence options that appear based on your earlier recurrence type selection.
7. In the **Conditions** section, select the condition that starts the export and how frequently the system checks to determine if the condition is met. Select one of the following options:
   - Choose **Export based on cloud posted date** if your configuration contains transaction-based subject areas and if you want to receive a delta export for transactions. That means, the export contains data that was posted to the cloud on the date that the export is running for. Export files thus may contain transactions from previous business dates if previously offline workstations came online on that day, or transactions are made on checks that are left open for more than one business date. This option only works for transaction-based subject areas[1]. All other subject areas are exported based on business date only. For example, Daily Totals is exported at the configured run time of the schedule. Make sure to schedule the export at a time you can guarantee the end of day to have completed for all locations.

     > **Note**
     >
     > On-demand and catch-up jobs of the schedule are run based on business date only.

   - Choose **Export based on business date** if your export configuration contains subject areas with aggregated data, or if you want to make sure to export only once the end of day has completed for each location. Then select one of the following options:

[1] For example, Cash Management, KDS Details, Non Sales, Time Cards, Guest Check Headers, Guest Check Discounts, Guest Check Menu Items, Guest Check Taxes, Guest Check Tender Media, Guest Check GST, Guest Check VAT, Guest Check Service Charges, Guest Check Other Details, Guest Check Extensions, and Guest Check Line Item Extensions

- Choose **Export without checking end of day condition** to trigger the export for all locations at the configured run time. The engine will not check if all end of day data is available and run at the configured time. Only use this option if you can guarantee, that the end of day has completed for all locations. The resulting exports only contain data for the business date(s) it is running for.
- Choose **Check end of day condition every 15 minutes for 6 hours** to trigger exports as soon as the end of day data for a location is available. If the condition is not met, the engine checks again after 15 minutes, for a total of 6 hours. This option should be selected if you cannot guarantee the availability of all end of day data at the run time, or if you schedule for locations across time zones. The resulting exports only contain data for the business date(s) it is running for.
  - Choose additional triggering options.
    - If **Combine locations into single output file** is deselected, the trigger options let you define whether the export is triggered once all transactions are posted or not.
    - If **Combine locations into single output file** is selected, the trigger options let you define when the export is triggered and which locations are included in the export file. Select if exports are generated with available locations as soon as possible, or wait until the end of the trigger window to export as many locations as possible in a single file. You can also chose to not export at all, if not all locations of the location scope are available.

8. In the **Export Delivery Options** section, specify basic properties for the data export file, such as the name of the file.

   In the **File Name** field, enter the name of the export file with the file extension. You can use a combination of text and tokens. The following sample file name includes text and tokens for location reference and business date:

   ```
   Daily_Export_${locationName}_${businessDate(YYYY-MM-DD)}.csv
   ```

   File name tokens are dynamically replaced during export generation.

   See Supported File Name Tokens for a complete list and explanation.

   To create a ZIP version of the export file, select **Compress Export**. The compressed file has a file extension of `.zip` and the file name is the same as defined in the **File Name** field. Combined locations exports are always compressed, due to the potentially huge file size they can create. If the export file is larger than 100 MB , multiple split zip files are created.

   To encrypt the data, select **Encrypt using PGP Encryption** and then paste an encryption key in the text box. Consider the following details when encrypting the data:

   - Make sure the PGP public key is an RSA encrypt key with minimum key size of 2048 (see RFC 4880 for information).
   - The data is encrypted using first public-key available in PGP key ring.
   - The encrypted output is an ASCII Armored Message (zip compressed).
   - You can decrypt the data using the PGP private key associated with PGP public key.

9. Select the **Delivery Profile Name**.

   The delivery profile defines the settings for delivering the exported data file to the end point. The delivery profile owner must have the data permissions for the subject areas that are used in the configuration.

10. Validate and activate the export schedule. Only active schedules generate an export. An inactive schedule does not generate an export. To activate the schedule:

a. Change the status to **Active** and then click **Save and Validate** to view the validation step.

b. Select the export scope **Location Name** and **Date** for which to validate export generation. To validate against sample data, select **Use sample data to validate configuration**. For combined locations exports, a maximum of three locations can be selected.

c. Click **Validate**. The validation steps are displayed on the screen. If validation completes successfully, the schedule is saved and activated. If validation fails, the detailed failure message is displayed to help resolve the problem. In this case, try validation again.

> **Note**
>
> The successful validation uploads an export file to the SFTP server or https endpoint using the defined delivery profile. If sample data was used to validate the export, make sure to not import the file in the downstream system.

Supported File Name Tokens

The system supports the following tokens:

- `${organizationId}` - a unique identifier for the enterprise.
- `${organizationName}` - the name of the enterprise. If any of the following reserved characters are used in location names, they are replaced with a dash (-) character: / ,\ ,| ,? ,* , < , > , : ," (double quote).
- `${orgShortName}` - the three-character enterprise short name.
- `${orgLvlName}` - the name of the organizational level the export is scheduled for.
- `${locationGroupName}` - the name of the location group the export is scheduled for.
- `${locationId}` - a unique identifier of the location included in the export. This token is not supported for combined locations exports.
- `${locationRef}` - an identifier of the location included in the export. This token is not supported for combined locations exports.
- `${siteID}` - an identifier of the location included in the export. This token is not supported for combined locations exports.
- `${locationName}` - the name of the location included in the export. This token is not supported for combined locations exports. If any of the following reserved characters are used in location names, they are replaced with a dash (-) character: / ,\ ,| ,? ,* , < , > , : ," (double quote)
- `${timeZone}` - the location's timezone. This token is not supported for combined locations exports.
- `${country}` - the country defined for the location included in the export. This token is not supported for combined locations exports.
- `${region}` - the region defined for the location included in the export. This token is not supported for combined locations exports.
- `${businessDate}` - the business date of the data included in the export.

- `${month}` - the month of the business date of the data included in the export.
- `${week}` - the week number of the business date of the data included in the export.
- `${startDate} & ${endDate}` - start date and end date of the export run.
- `${startTime} & ${endTime}` - start and end time of the export run.
- `${fileCreationDateTime}` - the date and time the export file was created.
- `${fixedPeriod}` - the quarter hour number of the data included in the export. This is applicable for real-time exports. The numbers are between 1 and 96, and start with 1 at 12:00 a.m. This token is not supported for combined locations exports.
- `${financialWeekNum}` - the number of the financial week included in the export. This requires recurrence to be set to financial week or financial period. This token is not supported for combined locations exports.
- `${financialPeriodNum}` - the number of the financial period included in the export. This requires recurrence to be set to financial week or financial period. This token is not supported for combined locations exports.
- `${counter-10000}` - a counter that increases with every run of the schedule. Use for real-time exports or combined locations export to prevent overriding a previous export file on the destination server. Resets at 10000.
- `${dateCounter}` - a counter that increments for the same day and resets at change of business date.
- `${dayCounter}` - a counter that increments each day and resets when reaches 1000.
- `${numLocationsExported}` - the number of locations included in this export file. This token is intended to be used for combined locations exports.
- `$(ttlNumOfScheduledLocations}` - the total number of locations this export is scheduled for. This token is intended to be used for combined locations exports to indicate how many locations should be included in the file.

The `${businessDate}`, `${startDate}`, `${endDate}`, `${startTime}`, and `${endTime}`, and `${fileCreationDateTime}` tokens support the following date and time sub-tokens to customize date and time in the file name:

- YYYY: four-digit year
- YY: two-digit year
- `MM`: two-digit month (examples: 01 for January, 02 for February)
- `MMM`: three-character description of the month (examples: JAN, FEB, MAR)
- `DD`: two-digit day of month (01 through 31)
- hh: two digits of hour (00 through 23; do not use am and pm values)
- `mm`: two digits of minute (00 through 59)
- `ss`: two digits of second (00 through 59)

The following examples show valid token and sub-token combinations:

- `${businessDate(YYYY-MMM-DD)}`
- `${startDate(MMM-DD)}`
- `${startTime(hh:mm:ss)}`
- `${endTime(YYYY-MMM-DDThh:mm:ss)}`

Known Error Messages

The error message **Code too large** is displayed while validating the schedule or the existing active schedule fails with **Code too large** error.

Explanation: The **Code too large** error typically arises when:

- A step query in the export configuration contains a large number of non-trivial expressions instead of simple column references. This could be large CASE statements or a large number of AND/OR predicates.
- The SELECT clause includes complex calculations or operations that significantly increase code complexity.

How to fix: To prevent this issue and ensure efficient export execution, the step queries must be simplified. Review the Best Practices.

On-Demand Exports

Run an export schedule on-demand outside of its scheduled run time.

Required system privileges: **Run Now Export Schedule** and either **View Schedules** or **Add/Edit/View/Delete Schedules**.

1. In Reporting and Analytics, click the side navigation menu, click **Reports**, click **Exports**, and then click **Schedules**.
2. In the Export Schedules list, find the export schedule and export configuration pairing and then click **Run Now**.
3. If necessary, make changes to location and date settings on the schedule Run Now tab and then click **Run Now**.

   You can run the export for a single business date or a range of business dates. For an export that is greater than a day, it's the end business date of that range that is input.

Searching for Exports

Search for on-demand exports or configurations run with schedules.

1. In Reporting and Analytics, click the side navigation menu, click **Reports**, and then click **Exports**.
2. To search for on-demand exports, click **On Demand** and then enter search criteria.
3. To search for configurations run with a schedule, click **Search** and then enter search criteria.

Tutorial: Export Sales Operations Data

Explains step-by-step how to export menu item sales data for the Sales Operations data category.

This tutorial shows how to export sales operations data from the Reporting and Analytics database. The following table lists the decisions we need to make to complete the tutorial.

Decisions to Consider	This Tutorial
What type of sales operations data do I want to export?	Menu item sales
Which database table contains the data I want to export?	menuItemSales
Which table columns do I want to export?	• Location name • Business date • Major group master name • Sales total rounded to 2 decimal places • Sum of discount totals
How do I want to format the exported data?	Define the format of the data with custom JavaScript.

1. In Reporting and Analytics, click the side navigation menu, click **Reports**, click **Exports**, click **Configurations**, and then click **Add Export Configuration**.
2. In the **Export Configuration Name** field, type `Menu Item Sales Tutorial`.
3. Since we are creating a new configuration, click **New**, and then click **Add**
4. Add the **Menu Item Sales** subject area to the configuration:
   a. In the Subject Areas section on the Details tab, click **Add**.
   b. Select **Menu Item Sales** from the **Subject Area** drop-down list.

      The **Version** drop-down list defaults to 1.0. You do not need to change this value.
   c. For **Data Type**, click **Sample data** and then click **Add**.

   Reporting and Analytics shows the menuItemSales database table columns with sample data. Since our configuration has only one subject area, Reporting and Analytics appends the table name with the number 1 (menuItemSales1). If we added another subject area, Reporting and Analytics would append the table name with the number 2.
5. In the **Drill Step 1** text box, add the following SQL code to query the database table and return the data we want.

> **Note**
>
> The following code contains line numbers. Do not include the line numbers in your SQL code. The numbers are for illustrative purposes only to describe the code in the table that follows the code.

```
1 SELECT
2  mi.locationName as locationName,
3  mi.businessdate as businessDate,
4  mi.majorGroupMasterName as MGName,
5  round(sum(mi.salesTotal), 2) as netSales,
6  sum(mi.discountTotal) as discountTotal
7 FROM
8  menuItemSales1() as mi
9 GROUP BY
10 mi.locationName, mi.businessDate, mi.majorGroupMasterName
```

The following table describes each line of the SQL code:

Line Number	Description
1	SQL `SELECT` statement used to select data.
2	Selects the `mi.locationName` column and returns it as `locationName`, where `mi` is the table alias defined in line 8.
3	Selects the `mi.businessdate` column and returns it as `businessDate`, where `mi` is the table alias defined in line 8.
4	Selects the `mi.majorGroupMasterName` column and returns it as `MGName`, where `mi` is the table alias defined in line 8.
5	Selects the sum of the `mi.salesTotal` column and returns it as `netSales` rounded to 2 decimal places, where `mi` is the table alias defined in line 8.
6	Selects the sum of the `mi.discountTotal` column and returns it as `discountTotal`, where `mi` is the table alias defined in line 8.
7	SQL `FROM` command to specify the table from which data is returned.
8	Specifies menuItemSales1 as the table from which data is returned. The `FROM` command assigns a SQL alias value of `mi` to the table.
9	SQL `GROUP BY` statement that groups returned values into a summary row.
10	Groups returned values `mi.locationName`, `mi.businessDate`, and `mi.majorGroupMasterName` into a summary row.

Under the Drill Step 1 section, select **Enabled** and **Include in export**.

Click **Test Step** to test the query. The returned data appears in the Drill Result section.

6. Click **Add JavaScript Step** and then add the following custom JavaScript code to format the returned data. The code uses the `padStart()` method to apply spacing between the returned column data in a row.

```
var input = step1;
var output = ``;
var i;
for (i = 0; i < input.length; i++) {
  if(i == 0) output += `
`
output += input[i].locationName.padStart(25);
output += input[i].businessDate.padStart(25);
output += input[i].MGName.padStart(25);
output += input[i].netSales.toString().padStart(15);
output += input[i].discountTotal.toString().padStart(10);
  if(i < input.length) output += `
`
}
```

7. To view the results, go to the **Results** tab and then click **Run and See Results**.

   Reporting and Analytics returns the data as follows.

   > **Note**
   >
   > If you are viewing the PDF version of this user guide, the lines of data wrap to the next line to fit onto the PDF page.

```
"
        Columbia Location              2018-10-03                Food.TMG
597.16    -19.71
        Columbia Location              2018-10-03        N/A Beverages.TMG
165.13    -10.95
"
```

Export Status Notification

You can proactively monitor the status of self-service exports by enabling email notifications to one or more people.

Emails are sent at the target time of the scheduled export, and if not all locations are completed at that time, another email is sent when all locations are complete. You may receive more than one email per schedule per day.

A PDF file is attached to the email and includes an export status summary and details that help you identify the root causes of delays or failures. The attached document includes:

- A summary section with name, schedule time, target time, and summary by export status.
- Schedule details by location with information including export status, failure details, start/end times, file size, and last successful run.
- Location details with last completed business date, last business date change date and time, last move history date and time, and all transaction posted times.
- Color coding for several fields allows you to quickly identify anomalies.
  – Delivered exports are green, failed exports are red, and all other export statuses are orange.
  – If an export has a file size more than 10% higher or lower than the average file size over the last seven scheduled executions, then it is red, indicating a data anomaly.
  – Exports with a processing time of 1 minute or more are orange. Those longer than 15 minutes are red and require a review of the export configuration and the queries for each step.

Email Triggers

For each export schedule, either one or two emails are sent out. Only one email is sent as soon as all exports are completed prior to the schedule's target time. Two emails are sent if not all locations are completed prior to the target time. In this case a status email is sent at the configured target time and then another notification once the last location has finished. For schedules with an end of day trigger condition, the email is sent as soon as the last locations are complete within the 6-hour scheduling window.

For real-time exports, the email is triggered at the configured target time.

The subject line of the email is designed to convey a high-level status of the export schedule. For real-time exports, it includes the total number of successful exports in the last 24 hours. For all other recurrence types, it includes the number of successful exports and the total number of scheduled exports. The subject line of the email may be one of these two options:

- For daily, weekly, bi-weekly, monthly, financial week, or financial period exports, the subject line is:

  <*Schedule Name*>: *n* of *n* successful (for <*exported business date or business date range*>).

  - For example: Standard GL Export: 27 of 27 successful (for 12/1/22)
- For real-time exports, the subject line is:

  <*Schedule Name*>: *n* successful in the last 24 hours (for <*exported business date*>).

  - For example: Real-time Transactions: 96 successful in the last 24 hours (for 12/1/22)

Email Body

The email body includes additional summarized status information. It includes the schedule name as well as the number of exports that completed successfully prior to, or after the target time. It also includes the number of locations in other statuses, such as waiting for trigger, processing, retrying transport, or failed. Those additional statuses are only included if greater than zero. The following list includes examples for the email body.

Example body when schedule finishes prior to the target time:

- Schedule "Standard GL Export" has finished ahead of target time: All 27 exports delivered within target time
- Schedule "Standard GL Export" has finished ahead of target time: Out of 27 total exports: 25 exports delivered within target time, 1 retrying transport, 1 failed

Example body when schedule reaches target time, but not all exports are completed:

- Schedule "Standard GL Export" reached target time: Out of 27 total exports: 25 delivered within target time, 2 waiting for trigger

Example body of second status email when all exports completed:

- Schedule "Standard GL Export" has finished: Out of 27 total exports: 21 delivered within target time, 2 delivered outside target time, 1 retrying transport, 3 failed

Example body of a real-time schedule:

- Schedule "Standard GL Export" status: 22 delivered in the last 24 hours, 1 still running, 2 retrying transport, 2 failed

Sample Email

The following images show an example of the email along with the different sections within the document attached to the email.

From: noreply@oracle.com <noreply@oracle.com>
Date: Sunday, 2 October 2022 at 8:55 PM
To:
Subject: Standard GL Export: 27 of 27 successful (for 9/26/22)

Report as of 9/28/22 8:44 PM EST

Schedule "Standard GL Export" has finished ahead of target time: All 27 exports delivered within target time

Self Service Export Status

Status as of	28/09/22 20:44

Schedule Name	Standard GL Export
Target Time	21:45
Occurrence Type	Daily

Schedule Summary

Delivered (Within Target Time)	0
Delivered (Outside of Target Time)	27
Queued for Transport	0
In Progress	0
Waiting for Trigger	0
Retrying Transport	0
Failed	0

Schedule Details

Location name	Export status	Failure detail	Exported business date	Transport time	Latest file size (KB)	Avg. file size last 7 runs (KB)	Export run start time	Export run end time	Last successful execution time	Last successful execution business date	Processing duration (mi:ss)
[illegible]	Export completed	-	26/09/22	28/09/22 15:10	0	0	28/09/22 15:05	28/09/22 15:05	02/10/22 15:20	02/10/22	00:02
[illegible]	Export completed	-	26/09/22	28/09/22 15:10	217.99	217.99	28/09/22 15:05	28/09/22 15:05	02/10/22 15:20	02/10/22	00:02
[illegible]	Export completed	-	26/09/22	28/09/22 15:10	146.84	146.84	28/09/22 15:05	28/09/22 15:05	02/10/22 15:20	02/10/22	00:01

Location Details

Location name	Last completed business date	Last business date change time	Last move history time	Last aggregated business date	Last aggregation completed time	All transaction posted business date	All transaction posted time
[illegible]	28/11/18 00:00	29/11/18 01:14	28/11/18 10:12			27/11/18 00:00	28/11/18 13:28
[illegible]	28/11/18 00:00	29/11/18 01:14	28/11/18 10:12			27/11/18 00:00	28/11/18 13:28
[illegible]							
[illegible]							
[illegible]							

Configure Export Status Notifications

Set up export status email notifications.

The person must have the **View Schedule Summary and Details** privilege to receive the notifications.

1. In Reporting and Analytics, click **Exports** and then click **Schedules**.
2. Select the schedule that you want to set up notifications for.
3. Click **Notifications**.
4. In the **Status Notification** field, select **Enable**.
5. Select the person or people who should receive the notification emails and then click **Save**.

   You can click a role to see all the people within that role.

13 Supported Languages

The following table lists translation languages available for Reporting and Analytics. It also shows additional settings by country for calendar dates and formatting.

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
Arabic (United Arab Emirates)	ar-AE	Arabic (Saudi Arabia), ar-SA	• Number: 1,234,567.89 • Time and Date: HH:mm:ss D/M/YYYY 24-hour clock • Start of Week: Saturday
Arabic (Algeria)	ar-DZ	Arabic (Saudi Arabia), ar-SA	• Number: 1.234.567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Sunday
Arabic (Bahrain)	ar-BH	Arabic (Saudi Arabia), ar-SA	• Number: • Time and Date: HH:mm:ss D/M/YYYY 24-hour clock • Start of Week: Saturday
Arabic (Egypt)	ar-EG	Arabic (Saudi Arabia), ar-SA	• Number: • Time and Date: HH:mm:ss D/M/YYYY 24-hour clock • Start of Week: Saturday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
Arabic (Iraq)	ar-IQ	Arabic (Saudi Arabia), ar-SA	• Number: • Time and Date: HH:mm:ss D/M/YYYY 24-hour clock • Start of Week: Saturday
Arabic (Jordan)	ar-JO	Arabic (Saudi Arabia), ar-SA	• Number: • Time and Date: HH:mm:ss D/M/YYYY 24-hour clock • Start of Week: Saturday
Arabic (Kuwait)	ar-KW	Arabic (Saudi Arabia), ar-SA	• Number: • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Sunday
Arabic (Lebanon)	ar-LB	Arabic (Saudi Arabia), ar-SA	• Number: • Time and Date: HH:mm:ss D/M/YYYY 24-hour clock • Start of Week: Saturday
Arabic (Libya)	ar-LY	Arabic (Saudi Arabia), ar-SA	• Number: 1.234.567,89 • Time and Date: HH:mm:ss D/M/YYYY 24-hour clock • Start of Week: Saturday
Arabic (Morocco)	ar-MA	Arabic (Saudi Arabia), ar-SA	• Number: 1.234.567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Saturday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
Arabic (Oman)	ar-OM	Arabic (Saudi Arabia), ar-SA	• Number: • Time and Date: HH:mm:ss D/M/YYYY 24-hour clock • Start of Week: Saturday
Arabic (Qatar)	ar-QA	Arabic (Saudi Arabia), ar-SA	• Number: • Time and Date: HH:mm:ss D/M/YYYY 24-hour clock • Start of Week: Saturday
Arabic (Saudi Arabia)	ar-SA	Arabic (Saudi Arabia), ar-SA	• Number: • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Sunday
Arabic (Tunisia)	ar-TN	Arabic (Saudi Arabia), ar-SA	• Number: 1.234.567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
Arabic (Yemen)	ar-YE	Arabic (Saudi Arabia), ar-SA	• Number: • Time and Date: HH:mm:ss D/M/YYYY 24-hour clock • Start of Week: Saturday
Chinese (China)	zh-CN	Chinese (China), zh-CN	• Number: 1,234,567.89 • Time and Date: HH:mm:ss YYYY/MM/DD 24-hour clock • Start of Week: Monday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
Chinese (Hong Kong)	zh-HK	Chinese (China), zh-CN	• Number: 1,234,567.89 • Time and Date: HH:mm:ss YYYY/MM/DD 24-hour clock • Start of Week: Sunday
Chinese (Singapore)	zh-SG	Chinese (China), zh-CN	• Number: 1,234,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday
Chinese (Taiwan)	zh-TW	Chinese (China), zh-CN	• Number: 1,234,567.89 • Time and Date: HH:mm:ss YYYY/MM/DD 24-hour clock • Start of Week: Sunday
Danish (Denmark)	da-DK	Danish (Denmark), da-DK	• Number: 1.234.567,89 • Time and Date: HH:mm:ss DD.MM.YYYY 24-hour clock • Start of Week: Monday
Dutch (Netherlands)	nl-NL	Dutch (Netherlands), nl-NL	• Number: 1.234.567,89 • Time and Date: HH:mm:ss DD-MM-YYYY 24-hour clock • Start of Week: Monday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
Dutch (Belgium)	nl-BE	Dutch (Netherlands), nl-NL	• Number: 1.234.567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
English (United States of America)	en-US	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday
English (American Samoa)	en-AS	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday
English (Australia)	en-AU	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A DD/MM/YYYY 12-hour clock • Start of Week: Monday
English (Belgium)	en-BE	English (United States of America), en-US	• Number: 1.234.567,89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
English (Belize)	en-BZ	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday
English (Botswana)	en-BW	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday
English (Canada)	en-CA	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A YYYY-MM-DD 12-hour clock • Start of Week: Sunday
English (Guam)	en-GU	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday
English (Hong Kong SAR China)	en-HK	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
English (India)	en-IN	English (United States of America), en-US	• Number: 12,34,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday
English (Ireland)	en-IE	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
English (Israel)	en-IL	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Sunday
English (Jamaica)	en-JM	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday
English (Malta)	en-MT	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
English (Marshall Islands)	en-MH	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday
English (Mauritius)	en-MU	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday
English (Namibia)	en-NA	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday
English (New Zealand)	en-NZ	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A DD/MM/YYYY 12-hour clock • Start of Week: Monday
English (Northern Mariana Islands)	en-MP	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
English (Pakistan)	en-PK	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday
English (Philippines)	en-PH	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday
English (Singapore)	en-SG	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
English (South Africa)	en-ZA	English (United States of America), en-US	• Number: 1 234 567,89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday
English (Trinidad and Tobago)	en-TT	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
English (United Kingdom)	en-GB	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
English (U.S. Minor Outlying Islands)	en-UM	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday
English (U.S. Virgin Islands)	en-VI	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday
English (Zimbabwe)	en-ZW	English (United States of America), en-US	• Number: 1,234,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday
Finnish (Finland)	fi-FI	Finnish (Finland), fi-FI	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD.MM.YYYY 24-hour clock • Start of Week: Monday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
French (France)	fr-FR	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Belgium)	fr-BE	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Benin)	fr-BJ	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Burkina Faso)	fr-BF	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Burundi)	fr-BI	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
French (Cameroon)	fr-CM	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Canada)	fr-CA	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss YYYY-MM-DD 24-hour clock • Start of Week: Sunday
French (Central African Republic)	fr-CF	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Chad)	fr-TD	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Comoros)	fr-KM	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
French (Congo - Brazzaville)	fr-CG	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Congo - Kinshasa)	fr-CD	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Côte d'Ivoire)	fr-CI	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Djibouti)	fr-DJ	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Equatorial Guinea)	fr-GQ	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
French (Gabon)	fr-GA	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Guadeloupe)	fr-GP	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Guinea)	fr-GN	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Luxembourg)	fr-LU	French (France), fr-FR	• Number: 1.234.567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Madagascar)	fr-MG	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
French (Mali)	fr-ML	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Martinique)	fr-MQ	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Monaco)	fr-MC	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Niger)	fr-NE	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Rwanda)	fr-RW	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
French (Réunion)	fr-RE	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Saint Barthélemy)	fr-BL	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Saint Martin)	fr-MF	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Senegal)	fr-SN	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
French (Switzerland)	fr-CH	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD.MM.YYYY 24-hour clock • Start of Week: Monday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
French (Togo)	fr-TG	French (France), fr-FR	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
German (Germany)	de-DE	German (Germany), de-DE	• Number: 1.234.567,89 • Time and Date: HH:mm:ss DD.MM.YYYY 24-hour clock • Start of Week: Monday
German (Austria)	de-AT	German (Germany), de-DE	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD.MM.YYYY 24-hour clock • Start of Week: Monday
German (Belgium)	de-BE	German (Germany), de-DE	• Number: 1.234.567,89 • Time and Date: HH:mm:ss DD.MM.YYYY 24-hour clock • Start of Week: Monday
German (Liechtenstein)	de-LI	German (Germany), de-DE	• Number: 1’234’567.89 • Time and Date: HH:mm:ss DD.MM.YYYY 24-hour clock • Start of Week: Monday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
German (Luxembourg)	de-LU	German (Germany), de-DE	• Number: 1.234.567,89 • Time and Date: HH:mm:ss DD.MM.YYYY 24-hour clock • Start of Week: Monday
German (Switzerland)	de-CH	German (Germany), de-DE	• Number: 1’234’567.89 • Time and Date: HH:mm:ss DD.MM.YYYY 24-hour clock • Start of Week: Monday
Italian (Italy)	it-IT	Italian (Italy), it-IT	• Number: 1.234.567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
Italian (Switzerland)	it-CH	Italian (Italy), it-IT	• Number: 1’234’567.89 • Time and Date: HH:mm:ss DD.MM.YYYY 24-hour clock • Start of Week: Monday
Japanese (Japan)	ja-JP	Japanese (Japan), ja-JP	• Number: 1,234,567.89 • Time and Date: HH:mm:ss YYYY/MM/DD 24-hour clock • Start of Week: Sunday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
Korean (South Korea)	ko-KR	Korean (South Korea), ko-KR	• Number: 1,234,567.89 • Time and Date: A h:mm:ss YYYY.MM.DD. 12-hour clock • Start of Week: Sunday
Norwegian (Norway)	no-NO	Norwegian (Norway), no-NO	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD.MM.YYYY 24-hour clock • Start of Week: Monday
Portuguese (Portugal)	pt-PT	Portuguese (Portugal), pt-PT	• Number: 1 234 567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
Portuguese (Brazil)	pt-BR	Portuguese (Brazil), pt-BR	• Number: 1.234.567,89 • Time and Date: HH:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Sunday
Russian (Russia)	ru-RU	Russian (Russia), ru-RU	• Number: 1 234 567,89 • Time and Date: H:mm:ss DD.MM.YYYY 24-hour clock • Start of Week: Monday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
Russian (Republic of Moldova)	ru-MD	Russian (Russia), ru-RU	• Number: 1 234 567,89 • Time and Date: H:mm:ss DD.MM.YYYY 24-hour clock • Start of Week: Monday
Spanish (Spain)	es-ES	Spanish (Spain), es-ES	• Number: 1.234.567,89 • Time and Date: H:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
Spanish (Argentina)	es-AR	Spanish (Spain), es-ES	• Number: 1.234.567,89 • Time and Date: H:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
Spanish (Bolivia)	es-BO	Spanish (Spain), es-ES	• Number: 1.234.567,89 • Time and Date: H:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
Spanish (Chile)	es-CL	Spanish (Spain), es-ES	• Number: 1.234.567,89 • Time and Date: H:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
Spanish (Colombia)	es-CO	Spanish (Spain), es-ES	• Number: 1.234.567,89 • Time and Date: H:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
Spanish (Costa Rica)	es-CR	Spanish (Spain), es-ES	• Number: 1 234 567,89 • Time and Date: H:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
Spanish (Dominican Republic)	es-DO	Spanish (Spain), es-ES	• Number: 1,234,567.89 • Time and Date: h:mm:ss A DD/MM/YYYY 12-hour clock • Start of Week: Monday
Spanish (Ecuador)	es-EC	Spanish (Spain), es-ES	• Number: 1.234.567,89 • Time and Date: H:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
Spanish (El Salvador)	es-SV	Spanish (Spain), es-ES	• Number: 1,234,567.89 • Time and Date: H:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
Spanish (Equatorial Guinea)	es-GQ	Spanish (Spain), es-ES	• Number: 1.234.567,89 • Time and Date: H:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
Spanish (Guatemala)	es-GT	Spanish (Spain), es-ES	• Number: 1,234,567.89 • Time and Date: H:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
Spanish (Honduras)	es-HN	Spanish (Spain), es-ES	• Number: 1,234,567.89 • Time and Date: H:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
Spanish (Mexico)	es-MX	Spanish (Spain), es-ES	• Number: 1,234,567.89 • Time and Date: H:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
Spanish (Nicaragua)	es-NI	Spanish (Spain), es-ES	• Number: 1,234,567.89 • Time and Date: H:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
Spanish (Panama)	es-PA	Spanish (Spain), es-ES	• Number: 1,234,567.89 • Time and Date: H:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
Spanish (Paraguay)	es-PY	Spanish (Spain), es-ES	• Number: 1.234.567,89 • Time and Date: H:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
Spanish (Peru)	es-PE	Spanish (Spain), es-ES	• Number: 1,234,567.89 • Time and Date: H:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
Spanish (Puerto Rico)	es-PR	Spanish (Spain), es-ES	• Number: 1,234,567.89 • Time and Date: H:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
Spanish (United States)	es-US	Spanish (Spain), es-ES	• Number: 1,234,567.89 • Time and Date: h:mm:ss A MM/DD/YYYY 12-hour clock • Start of Week: Sunday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
Spanish (Uruguay)	es-UY	Spanish (Spain), es-ES	• Number: 1.234.567,89 • Time and Date: H:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
Spanish (Venezuela)	es-VE	Spanish (Spain), es-ES	• Number: 1.234.567,89 • Time and Date: H:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Monday
Swedish (Sweden)	sv-SE	Swedish (Sweden), sv-SE	• Number: 1 234 567,89 • Time and Date: HH:mm:ss YYYY-MM-DD 24-hour clock • Start of Week: Monday
Swedish (Finland)	sv-FI	Swedish (Sweden), sv-SE	• Number: 1 234 567,89 • Time and Date: HH:mm:ss YYYY-MM-DD 24-hour clock • Start of Week: Monday
Thai (Thailand)	th-TH	Thai (Thailand), th-TH	• Number: 1,234,567.89 • Time and Date: H:mm:ss DD/MM/YYYY 24-hour clock • Start of Week: Sunday

Language and Country	Locale	User Interface Translation Language	Country-specific settings including number formatting, date and time formatting, and start of week settings.
Turkish (Turkey)	tr-TR	Turkish (Turkey), tr-TR	• Number: 1.234.567,89 • Time and Date: HH:mm:ss DD.MM.YYYY 24-hour clock • Start of Week: Monday

Changing the Language

1. In Reporting and Analytics and then follow one of these steps:
   - Click the user menu in the top right-hand corner of the screen and then click **My Profile**.
   - Click the side navigation menu, click **Administration**, click **Users**, and then select the user.
2. In the **Language** field, select your preferred language.
3. Click **Save and Close**.