

# Oracle® Healthcare Foundation

## Dashboards User's Guide



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# Preface

This preface contains the following sections:

- [Documentation accessibility](#)
- [Related resources](#)
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- [Additional copyright information](#)

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- Japanese interface of Oracle Health Sciences Customer Support Portal (<https://hsgbu-jp.custhelp.com/>)

You can also call our 24x7 help desk. For information, visit <http://www.oracle.com/us/support/contact/health-sciences-cloud-support/index.html> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

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# 1

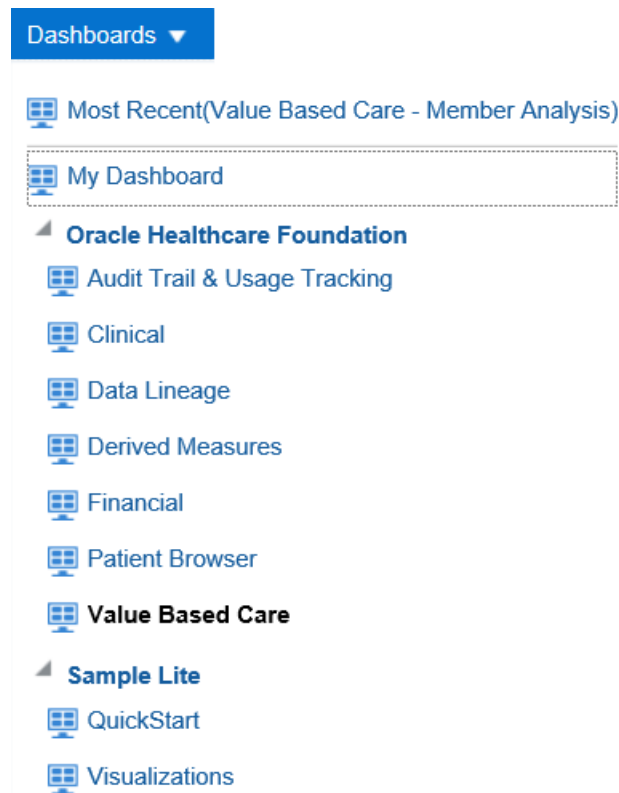
## Overview

Oracle Healthcare Foundation (OHF) Dashboards is a comprehensive set of examples for Clinical, Financial, and Value Based Care domains that are created using Self-Service Analytics (SSA). The OHF Dashboards are distributed as free content and are not maintained or supported by Oracle as a licensed product.

The dashboards run on Oracle Business Intelligence (OBIEE) and can be used to visualize data from the Healthcare Common Data Mart (HCD). For details on the dashboards' deployment instructions, see *Oracle Healthcare Foundation Installation Guide*.

Oracle also provides sample data files to populate HCD with sample data for the OHF Dashboards or for other analytics uses. For instructions on how to deploy the sample data, see the *Oracle Healthcare Foundation Sample Data Deployment Guide*.

You can access the OHF Dashboards from the **Dashboard** menu in OBIEE, as shown below:



- [Documentation Accessibility](#)

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# 2

## Oracle Healthcare Foundation Dashboards

The following are the Oracle Healthcare Foundation Dashboards and pages. You can customize or extend the dashboards and reports based on your downstream application use cases:

**Table 2-1 Oracle Healthcare Foundation Dashboards**

Dashboard	Pages
<a href="#">Value Based Care Dashboard</a>	<ul style="list-style-type: none"><li><a href="#">Member Analysis</a></li><li><a href="#">PMPM Analysis</a></li><li><a href="#">Risk Score Analysis</a></li><li><a href="#">Rx Claim Analysis</a></li><li><a href="#">ACO Measures</a></li><li><a href="#">Patient Caregiver Experience</a></li></ul>
<a href="#">Derived Measures Dashboard</a>	Allows you to browse derived measures, such as: HCAHPS, HIQR/HQQR, PQRS, or CQM.
<a href="#">Patient Browser Dashboard</a>	Create, save, or retrieve queries for a cohort of patients by: demographics, diagnosis, procedure, drug, DRG, service line, etc.
<a href="#">Clinical Dashboard</a>	<ul style="list-style-type: none"><li><a href="#">Summary</a></li><li><a href="#">Stroke Encounters</a></li><li><a href="#">LOS Analysis</a></li></ul>
<a href="#">Financial Dashboard</a>	<ul style="list-style-type: none"><li><a href="#">Reimbursement Analysis</a></li><li><a href="#">Claims Analysis</a></li><li><a href="#">Encounter Charge Analysis</a></li><li><a href="#">Billing Analysis</a></li></ul>
<a href="#">Audit Trail and Usage Tracking Dashboard</a>	<ul style="list-style-type: none"><li><a href="#">Usage Summary</a></li><li><a href="#">Audit Trail</a></li><li><a href="#">Dashboard Usage</a></li></ul>
<a href="#">Data Lineage Dashboard</a>	<ul style="list-style-type: none"><li><a href="#">Report Lineage</a></li><li><a href="#">Healthcare Common Datamart Lineage</a></li></ul>

The reports in these dashboards work for the Hospital enterprise. You can filter some reports by organization.

- [Value Based Care Dashboard](#)
- [Derived Measures Dashboard](#)
- [Patient Browser Dashboard](#)
- [Clinical Dashboard](#)
- [Financial Dashboard](#)
- [Audit Trail and Usage Tracking Dashboard](#)
- [Data Lineage Dashboard](#)



# Value Based Care Dashboard

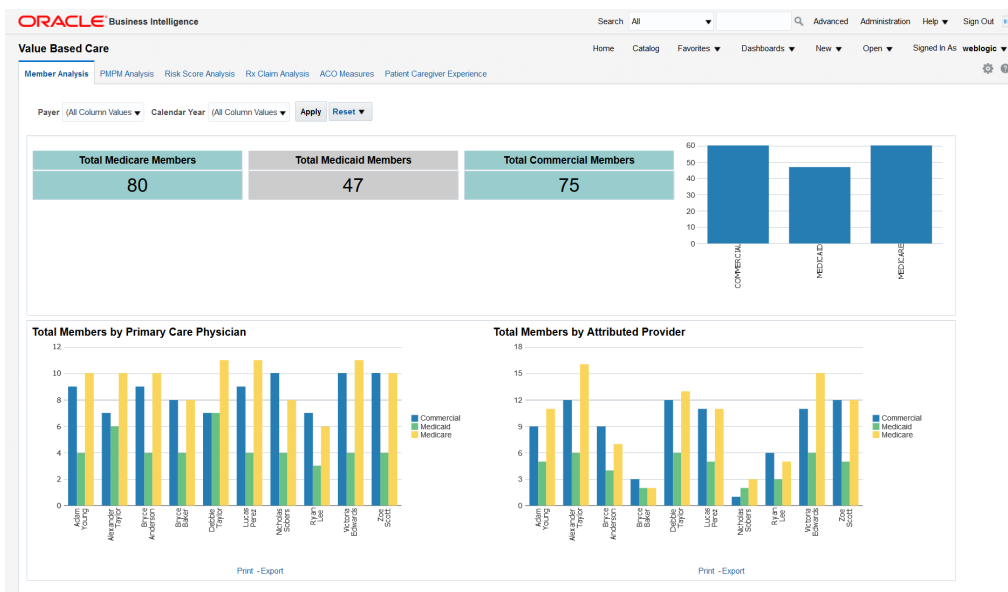
The Value Based Care Dashboard contains the following pages:

- [Member Analysis](#)
- [PMPM Analysis](#)
- [Risk Score Analysis](#)
- [Rx Claim Analysis](#)
- [ACO Measures](#)
- [Patient Caregiver Experience](#)

## Member Analysis

The Member Analysis page displays analytics based on the Member Month Eligibility and Medical Claim subject areas.

**Figure 2-1 Member Analysis Page**



You can use the filters at the top of the page to focus on specific payers and calendar years. This page has the following reports:

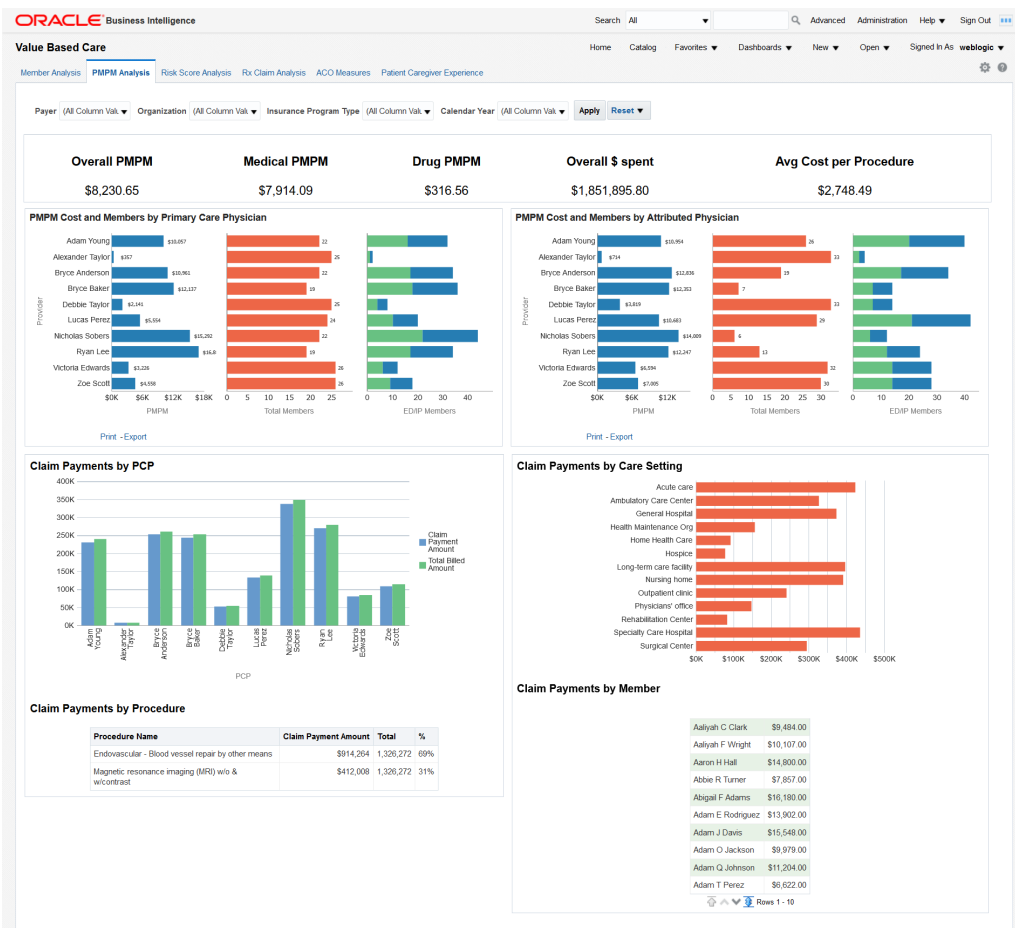
- Total medicare, medicaid, and commercial members. This report shows the organization's exposure to different insurers based on the number of patients they cover. Click on the bars in the graph to display details about all the members covered by each insurer.
- Total Members by Primary Care Physician. This report shows each primary care physician's exposure to different insurers based on the number of patients they cover. Click on the bars in the graph to display details about all the members covered by each insurer for every primary care physician.

- Total Members by Attributed Provider. This report shows each attributed provider's exposure to different insurers based on the number of patients they cover. Click on the bars in the graph to display details about all the members covered by each insurer for every attributed provider.

## PMPM Analysis

The PMPM Analysis page displays analytics based on the Member Month Eligibility, Medical Claim, and Rx Claim subject areas.

Figure 2-2 PMPM Analysis Page



You can use the filters at the top of the page to focus on specific payers, organizations, insurance program types, and calendar years. This page has the following reports:

- PMPM overall, medical and drug cost in dollars, overall dollars spent, and average cost per procedure. This report allows you to see the average monthly costs per member and their distribution between medical and drug PMPM costs. It also allows you to evaluate your total costs and the cost of a typical procedure.
- PMPM Cost and Members by Attributed Physician. This report helps you understand the PMPM costs that attributed physicians generate through the average monthly cost per member and the total number of members assigned.

The distribution between emergency and inpatient members also helps you understand the associated costs.

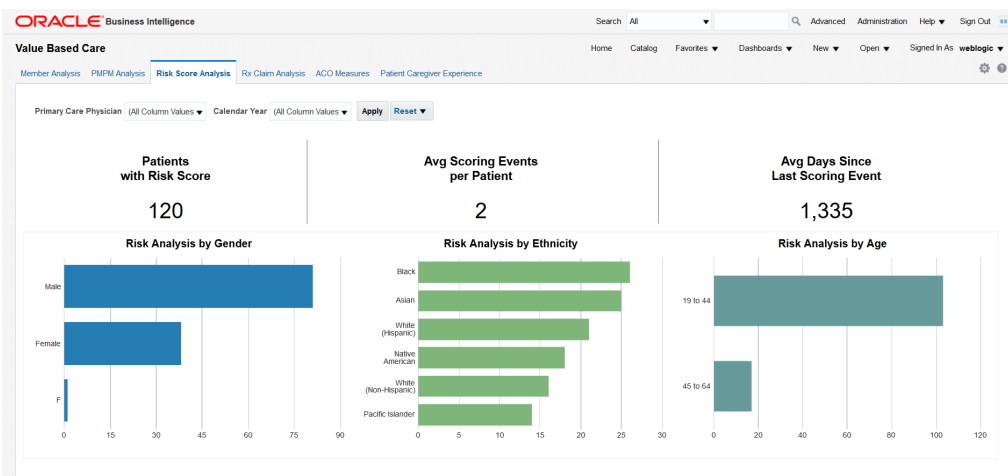
Click any bar in the PMPM graph to display a detailed breakdown of all the amounts for each attributed physician.

- **High Cost Members by Primary Care Physician.** This report helps you understand the costs that primary care physicians generate through the average monthly cost per member and the total number of members assigned. The distribution between emergency and inpatient members also helps to understand the associated costs. Click any bar in the PMPM graph to display a detailed breakdown of all the amounts for each primary care physician.
- **Claim Payments by PCP -** Graphical representation of the claimed payment amounts and billed amounts by primary care physician. This report allows you to compare the overall payments claimed by primary care physicians and to check how they are covered by the billed amounts.
- **Claim Payments by Procedure -** A tabular report of the claim payments for each procedure compared to the total amount. The percentage helps you identify the procedures that generate the largest claims.
- **Claim Payments by Care Setting -** Graphical representation of the claim payment amounts for each case setting. This report helps you visualize the care settings that generate the largest claims.
- **Claim Payments by Member -** A tabular report that lists all members and their claim payments. This report allows you to drill down to the payments claimed for each member.

## Risk Score Analysis

The Risk Score Analysis page displays analytics based on the Member Risk Score subject area.

**Figure 2-3 Risk Score Analysis Page**



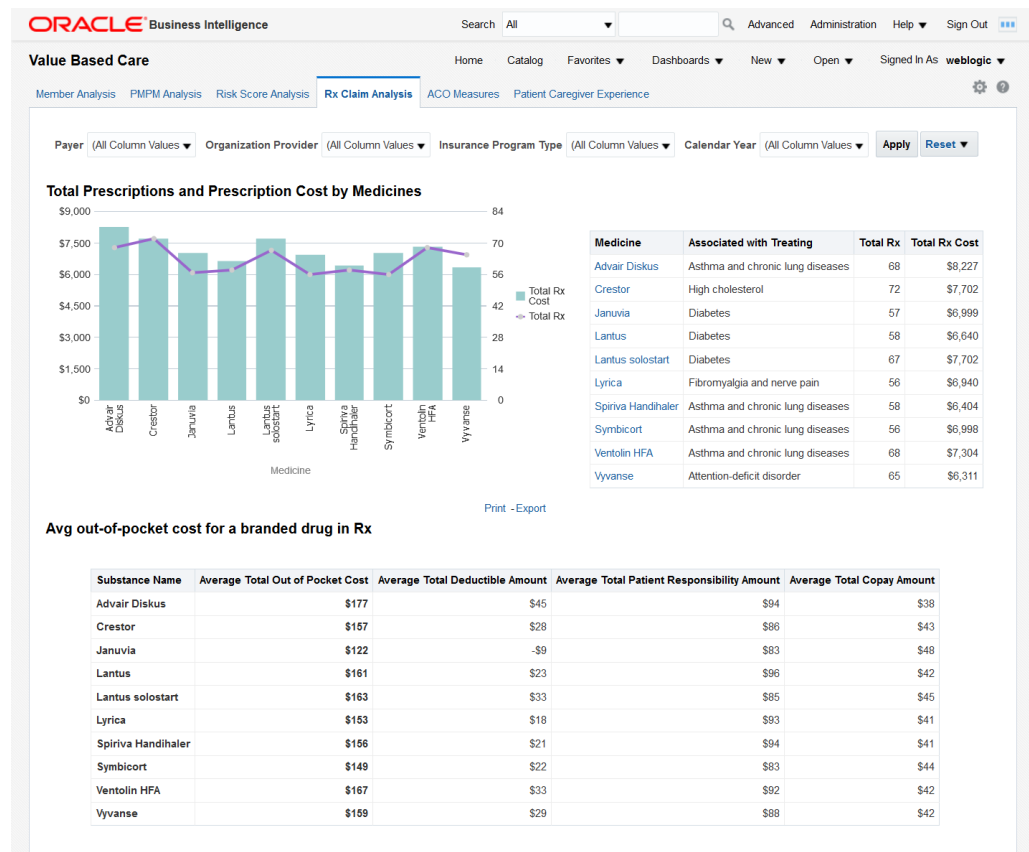
You can use the filters at the top of the page to focus on specific primary care physicians and calendar years. This page has the following reports:

- Total number of patients with risk score, average scoring events per patient and average days since last scoring event. This report helps you understand the scoring activity volume based on the number of patients it is performed on, the number of scoring events per patient, and their frequency.
- Risk analysis by gender, ethnicity, and age. Correlate this report with the total numbers of patients in each category to understand which genders, ethnic groups, and age bands are more exposed to risks.

## Rx Claim Analysis

The Rx Claim Analysis page displays analytics based on the Prescription Claim subject area.

Figure 2-4 Rx Claim Analysis Page



You can use the filters at the top of the page to focus on specific payers, organization providers, insurance program types, and calendar years. This page has the following reports:

- Total Prescriptions and Prescription Cost by Medicines - This report helps you understand how often different medicines are prescribed and the costs that these prescriptions generate. Click on a bar or on a medicine name to display detailed prescription information for all the members who have been prescribed the medicine. There are 2 levels of

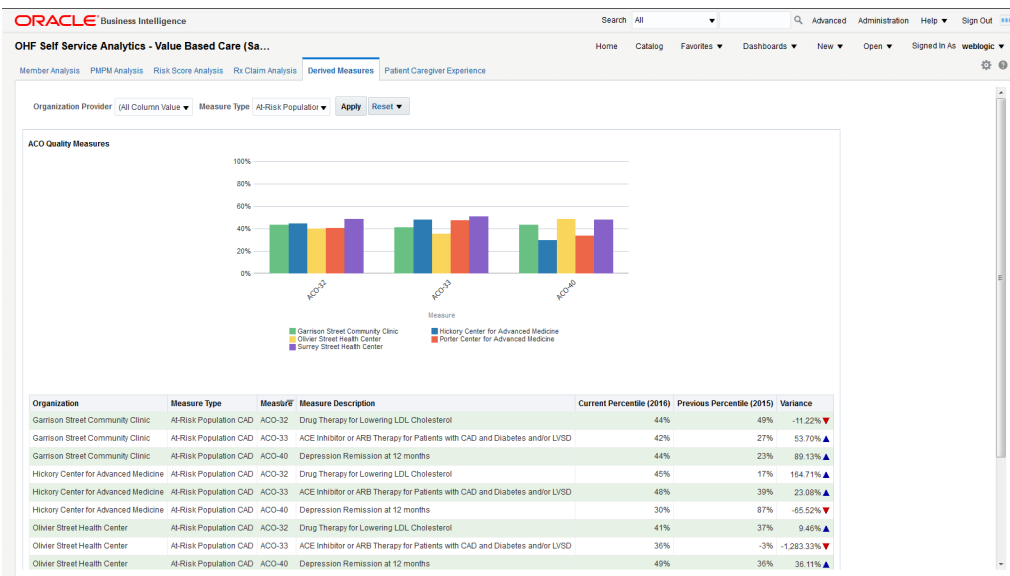
drill down. Clicking further on the member number shows another detailed report for each member with Bill details.

- Avg out-of-pocket cost for a branded drug in Rx - Shows the average out of pocket cost that patients pay for a given set of medicines along with the breakdown of that cost by deductible, patient responsibility, and copay amounts.

## ACO Measures

The ACO Measures page uses quality measurements based on the Accountable Care Organization (ACO) standards. You can customize this page to be used for any quality measure.

Figure 2-5 ACO Measures Page



You can use the filters at the top of the page to focus on specific organization providers and measure types. This page has the following report:

- ACO Quality Measures - Graphical representation of the percentile rating for the selected organization providers for specific measure types. This report allows you to understand how organization providers compare to each other on different measures. The detailed tabular report below the chart also includes the percentile variance from the previous year to the current year, providing insight into the progress of an organization over different ACO quality measures.



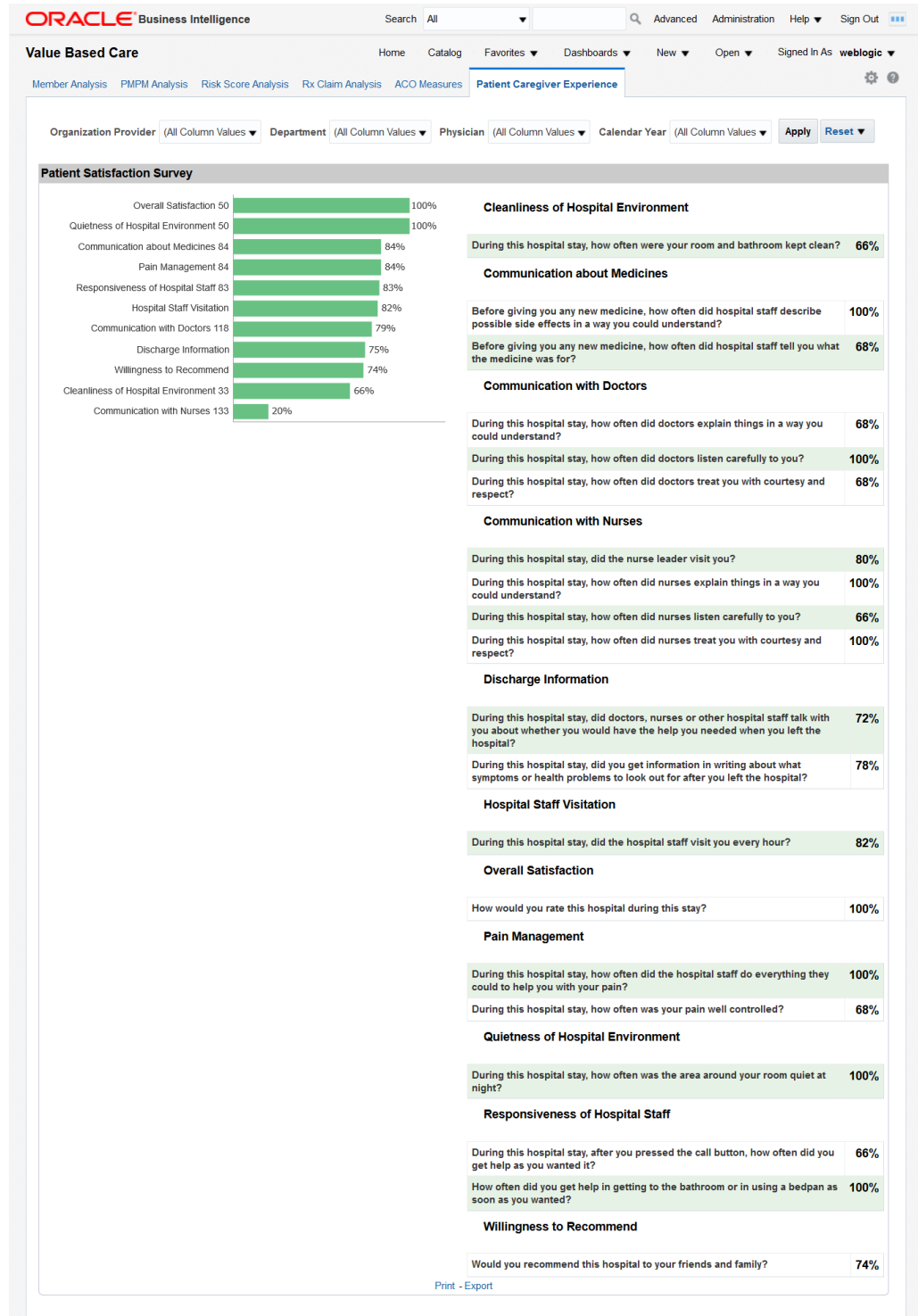
**Note:**

The derived measure model supports drill-down to a patient, member, individual and organization service provider, encounter, internal organization, medical claim, and Rx claim from the quality measure results.

# Patient Caregiver Experience

The Patient Caregiver Experience page centralizes responses from patient surveys.

**Figure 2-6 Patient Caregiver Experience Page**



You can use the filters at the top of the page to focus on specific organization providers, departments, physicians, and calendar years. This page has the following report:

- Patient Satisfaction Survey - Shows the survey response results rolled up to the categories, such as cleanliness of hospital environment, communication about medicines, and communication with doctors and nurses. Click on a graph bar to display the detailed answers for that survey category. On the right side, the survey displays the performance score for each area. For example, "During the hospital stay, how often doctors explained in a way that the patient could understand?" has a score of 80%, which means 80% of patients agreed that the doctors explained clearly. Click on a percentage number to display the detailed answers for that survey question.

## Derived Measures Dashboard

Figure 2-7 Derived Measures Dashboard

The screenshot shows the Oracle Business Intelligence Derived Measures dashboard. On the left, there are several filter panels:

- Organization Service Provider:** A list box containing NULL, Garrison Street Community Clinic, Hickory Center for Advanced Medicine, Oliver Street Health Center, Porter Center for Advanced Medicine, and Surrey Street Health Center.
- Calendar Year:** Radio buttons for NULL, 2016, 2015, and 2014.
- Derived Measure Category:** A dropdown menu set to '(All Column Values)'.
- Derived Measure Type:** A dropdown menu set to '(All Column Values)'.
- Derived Measure:** A list box with various medical measures, including 'Aspirin Use' which is selected.

At the bottom of the filter panels are 'Apply' and 'Reset' buttons. The main content area is a table titled 'Derived Measures' with the following data:

Measurement Year	Organization	Measure Type	Measure Name	Numerator	Denominator	Measure Value	Measure Value Text
2015	Garrison Street Community Clinic	At-Risk Population Diabetes	ACO-26 Aspirin Use			70	Very Small
2015	Garrison Street Community Clinic	Patient/ Caregiver Experience	ACO-6 Shared Decision Making			10	Very Small
2016	Garrison Street Community Clinic	At-Risk Population Diabetes	ACO-26 Aspirin Use			43	Very Small
2016	Garrison Street Community Clinic	Patient/ Caregiver Experience	ACO-6 Shared Decision Making			30	Very Small
2015	Oliver Street Health Center	At-Risk Population Diabetes	ACO-26 Aspirin Use			69	Very Small
2015	Oliver Street Health Center	Patient/ Caregiver Experience	ACO-6 Shared Decision Making			80	Very Small
2016	Oliver Street Health Center	At-Risk Population Diabetes	ACO-26 Aspirin Use			47	Very Small
2016	Oliver Street Health Center	Patient/ Caregiver Experience	ACO-6 Shared Decision Making			38	Very Small
2015	Porter Center for Advanced Medicine	At-Risk Population Diabetes	ACO-26 Aspirin Use			12	Very Small
2015	Porter Center for Advanced Medicine	Patient/ Caregiver Experience	ACO-6 Shared Decision Making			66	Very Small
2016	Porter Center for Advanced Medicine	At-Risk Population Diabetes	ACO-26 Aspirin Use			41	Very Small
2016	Porter Center for Advanced Medicine	Patient/ Caregiver Experience	ACO-6 Shared Decision Making			34	Very Small

The Derived Measures dashboard allows you to browse derived measures, such as: HCAHPS, HIQR/HQQR, PQRS, or CQM. Use the panel on the left to select your filtering criteria and click **Apply** to display the results in the table on the right. Also see [ACO Measures](#) for measure comparisons between organizations and progress tracking.

# Patient Browser Dashboard

Figure 2-8 Patient Browser Dashboard

Patient Browser									
Summary									
Patients	ED Visits	IP Visits	OP Visits	Discharges					
13	0	1	18	13					
Name	MRN	Age	Final Diagnosis	Primary Procedure	ALOS	Admitting Physician	Attending Physician	Clinical Trial Status Code	Encounter Type
Abigail F Adams	126746	47	Diverticulitis of small intestine with perforation and abscess	Magnetic resonance imaging (MRI) w/o & w/contrast	5	Victoria Edwards	Victoria Edwards	NAV	Outpatient
Ben L Campbell	123420	45	Mediastinal Carcinoma	Magnetic resonance imaging (MRI) w/o & w/contrast	5	Lucas Perez	Adam Young	NAV	Outpatient
Georgia J Thompson	132189	47	Mediastinal Carcinoma	Magnetic resonance imaging (MRI) w/o & w/contrast	5	Adam Young	Ryan Lee	NAV	Outpatient
Ian E Gonzalez	133122	47	Cerebral Infarction (Stroke)	Endovascular - Blood vessel repair by other means	2	Adam Young	Lucas Perez	NAV	Outpatient
Ian O Davis	130656	46	LII Pneumonia	Magnetic resonance imaging (MRI) w/o & w/contrast	5	Bryce Baker	Debbie Taylor	NAV	Outpatient
James B Scott	133325	47	Diverticulitis of small intestine with perforation and abscess	Magnetic resonance imaging (MRI) w/o & w/contrast	5	Ryan Lee	Ryan Lee	NAV	Outpatient
Kevin P Walker	132405	47	Cerebral Infarction (Stroke)	Endovascular - Blood vessel repair by other means	5	Bryce Baker	Ryan Lee	NAV	Inpatient
Steven I Robinson	122324	45	LII Pneumonia	Magnetic resonance imaging (MRI) w/o & w/contrast	5	Victoria Edwards	Bryce Baker	NAV	Outpatient
Sydney A Turner	128738	47	Cerebral infarction (Stroke)	Endovascular - Blood vessel repair by other means	5	Ryan Lee	Adam Young	NAV	Outpatient
Victoria F Baker	133179	48	LII Pneumonia	Magnetic resonance imaging (MRI) w/o & w/contrast	5	Ryan Lee	Lucas Perez	NAV	Outpatient

The Patient Browser allows you to create, save, or retrieve queries for a cohort of patients by: demographics, diagnosis, procedure, drug, DRG, service line, etc. Use the panel on the left to select your filtering criteria and click **Apply** to display the results in the table on the right. A summary count for your results is displayed at the top of the page for the number of patients, visits, and discharges.

Click on an MRN to display that patient's billing information.

## Clinical Dashboard

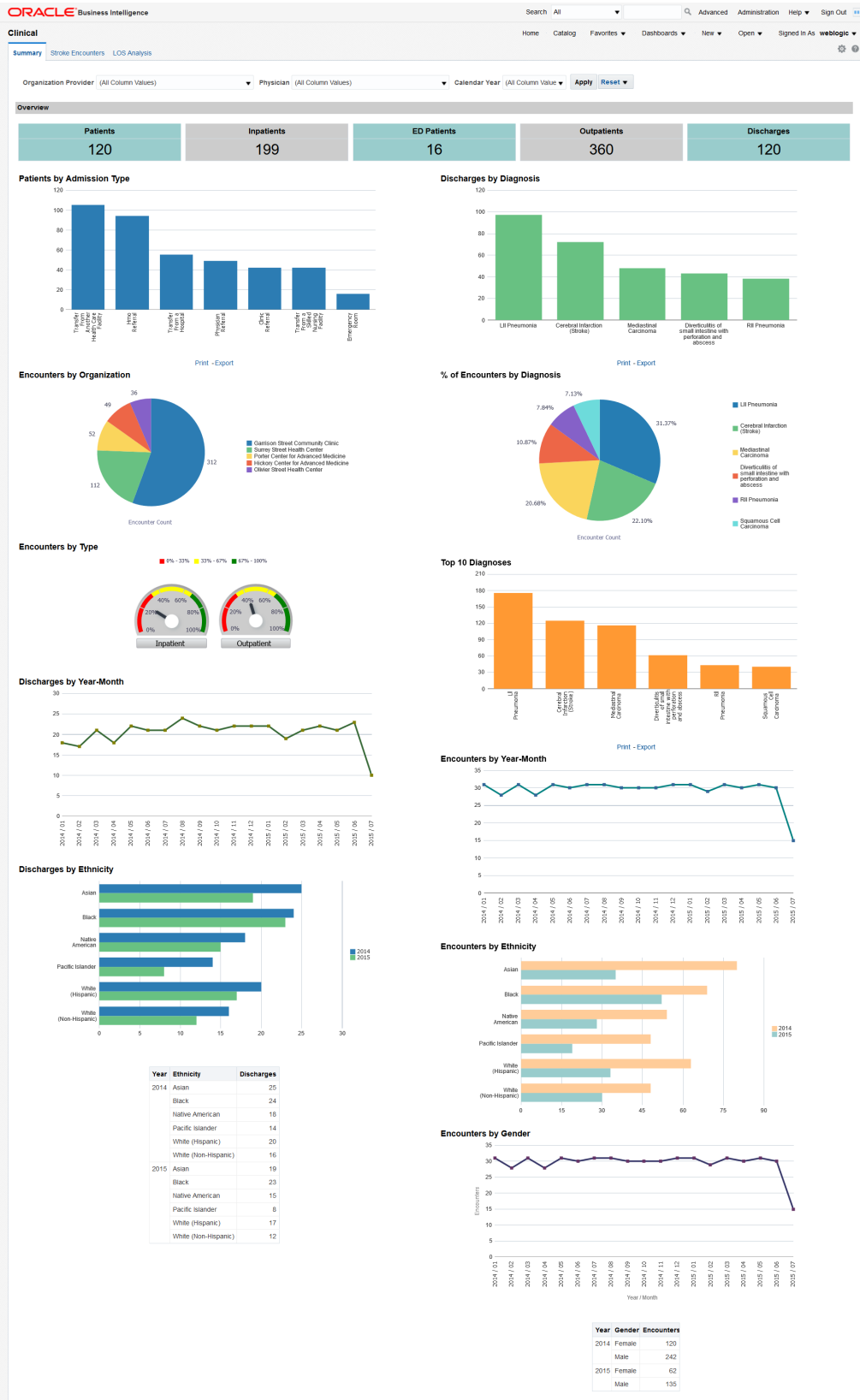
The Clinical dashboard contains the following pages:

- [Summary](#)
- [Stroke Encounters](#)
- [LOS Analysis](#)



# Summary

Figure 2-9 Summary Page



You can use the filters at the top of the page to focus on preferred organization providers, physicians, or calendar years. The page has the following reports:

- **Overview** - An overview of counts in a hospital enterprise including the number of patients, discharges, emergency department patients, inpatients, and outpatients. This helps you to compare the inflow and outflow of patients, and to allocate resources based on the distribution of patient care efforts between emergency, ambulatory and inpatient services.  
Click on a number to display a detailed list of all the patients in that category. From there, you can click the patients' MRNs to further drill down their billing details.
- **Patients by Admission Type**. This report allows you to see the inflow of patients that go through different admission types (referral, transfer, emergency, etc.) and to adjust your admission operations accordingly.  
Click on a bar to display a detailed list of all the patients in that category. From there, you can click the patients' MRNs to further drill down their billing details.
- **Discharges by Diagnosis** - Modify this report to show the number of discharges for a specific diagnosis of interest. You can correlate this report with the Top 10 Diagnoses report and see if they are proportional. If the number of discharges for a specific diagnosis is trailing, it may indicate a long-term tendency for cases with that specific diagnosis to accumulate in the organization. You may want to investigate such situations and address them.  
Click on a bar to display a detailed list of all the patients with that diagnosis. From there, you can click the patients' MRNs to further drill down their billing details.
- **Encounters by Organization**. This report allows you to see the workload distribution between your organizations and plan your staffing, budgeting, and resource allocations accordingly.
- **% of Encounters by Diagnosis** - Modify this report to show the % of encounters for a specific diagnosis of interest. You can use this report to estimate the mix of specialists that you need, based on the workloads that the various types of treatments require.
- **Encounters by Type** - The balance between the inpatient and outpatient services you provide may help your organization adjust its focus either on clinics or hospitals.
- **Top 10 Diagnosis** - Modify this report to show the number of encounters for a specific diagnosis of interest. You can use this report to see which treatments that you provide are the most labor intensive.  
Click on a bar to display a detailed list of all the patients with that diagnosis. From there, you can click the patients' MRNs to further drill down their billing details.
- **Discharges by Year-Month** - You can correlate this report with the number of encounters by year-end and see if there are any seasonal slow-downs in treatment delivery.
- **Encounters by Year-Month** - You can use this report to see the long-term trends and seasonal spikes in workload.
- **Discharges by Ethnicity** - Shows a comparative analysis of number of discharges over two years by ethnicity. Modify this report to show the number of discharges for specific years of interest. You can correlate this report with the number of encounters by ethnicity to see if there is a systematic tendency to discharge members of certain ethnic groups after fewer investigations than the baseline.
- **Encounters by Ethnicity** - Shows a comparative analysis of the number of encounters over two years by ethnicity. Modify this report to show the number

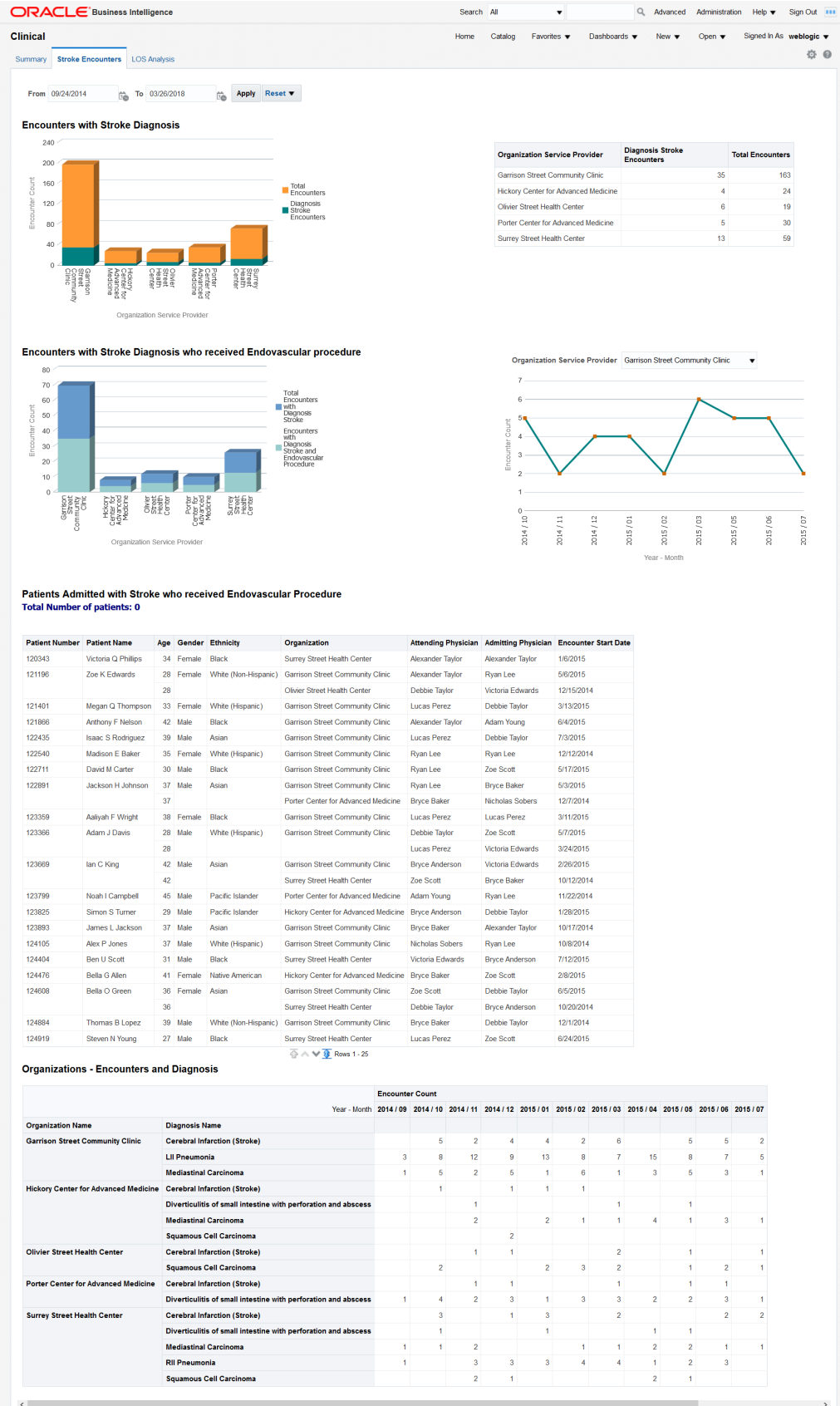
of encounters for specific years of interest. You can correlate this report with the number of discharges by ethnicity to see if there is a systematic tendency to discharge members of certain ethnic groups after fewer investigations than the baseline.

- Encounters by Gender - Shows the workload distribution between male and female patients. You can use this report to plan gender-specific healthcare measures.

## Stroke Encounters

The Stroke Encounters page shows a holistic view of the number of encounters in a Healthcare organization for different dimensions such as diagnosis, procedure, and time. It uses the Stroke diagnosis and Endovascular procedure subject areas. You can modify the page to use any diagnosis and procedures based on your use case.

Figure 2-10 Stroke Encounters Page

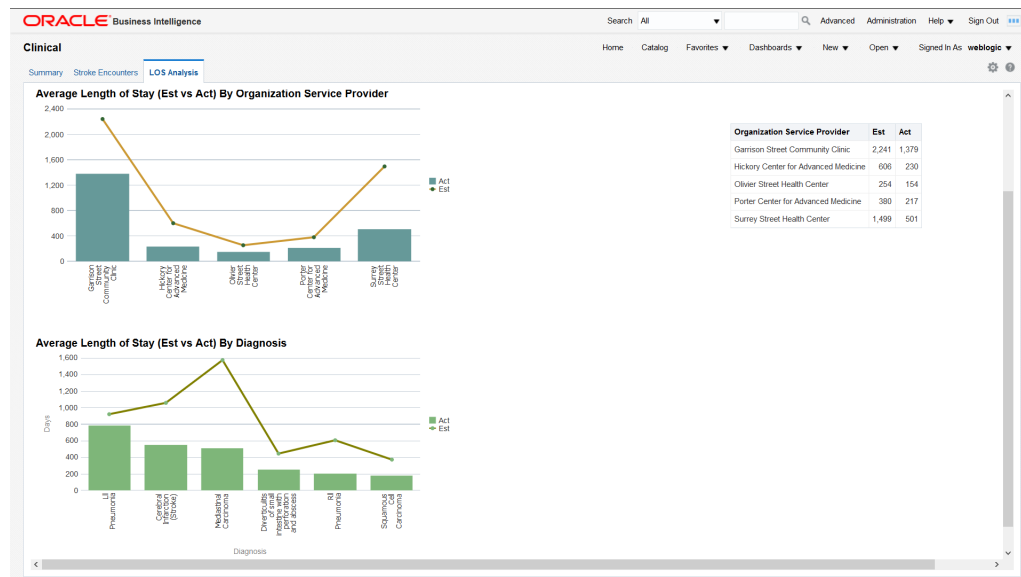


You can use the filters at the top of the page to focus on specific time periods. This page has the following reports:

- Encounters with Stroke Diagnosis - Shows the total number of encounters with stroke diagnosis in an organization against the total number of encounters. This lets you compare and contrast the volume of encounters in your organizations for a specific diagnosis.
- Encounters with Stroke Diagnosis who received Endovascular procedure - Shows the number of encounters with stroke diagnosis and the patients who received endovascular procedure treatment. This lets you evaluate the frequency of endovascular procedures performed on patients who suffered a stroke. The chart on the right displays the evolution of the number of encounters for a selected organization during the analyzed time period. This report lets you see long-term trends and seasonal spikes for endovascular procedures performed on patients who suffered a stroke.
- Patients Admitted with Stroke who received Endovascular Procedure - Tabular report showing the list of patients with Stroke diagnosis who have received endovascular procedure for the chosen time period. This report allows you to drill down to the specifics of each encounter attended by individual patients.
- Organizations - Encounters and Diagnosis - Tabular report showing monthly encounters for each diagnosis per organization.

## LOS Analysis

Figure 2-11 LOS Analysis Page



The Length of Stay (LOS) Analysis page has the following reports:

- Average Length of Stay (Est vs Act) By Time - Comparative analysis report that shows the average estimated LOS and average actual LOS over a period of time filtered by organization service provider. You can use this report to analyze and address issues with your LOS forecasting methodology for an organization service provider.

- Average Length of Stay (Est vs Act) By Organization Service Provider - Comparative analysis report that shows the estimated LOS and actual LOS by organization service provider. This report provides insight into the LOS forecasting gaps from each organization service provider.
- Average Length of Stay (Est vs Act) By Diagnosis - Comparative analysis report that shows the average estimated LOS and average actual LOS by diagnosis. You can use this report to analyze and address any issues with your LOS forecasting methodology for individual diagnoses.

## Financial Dashboard

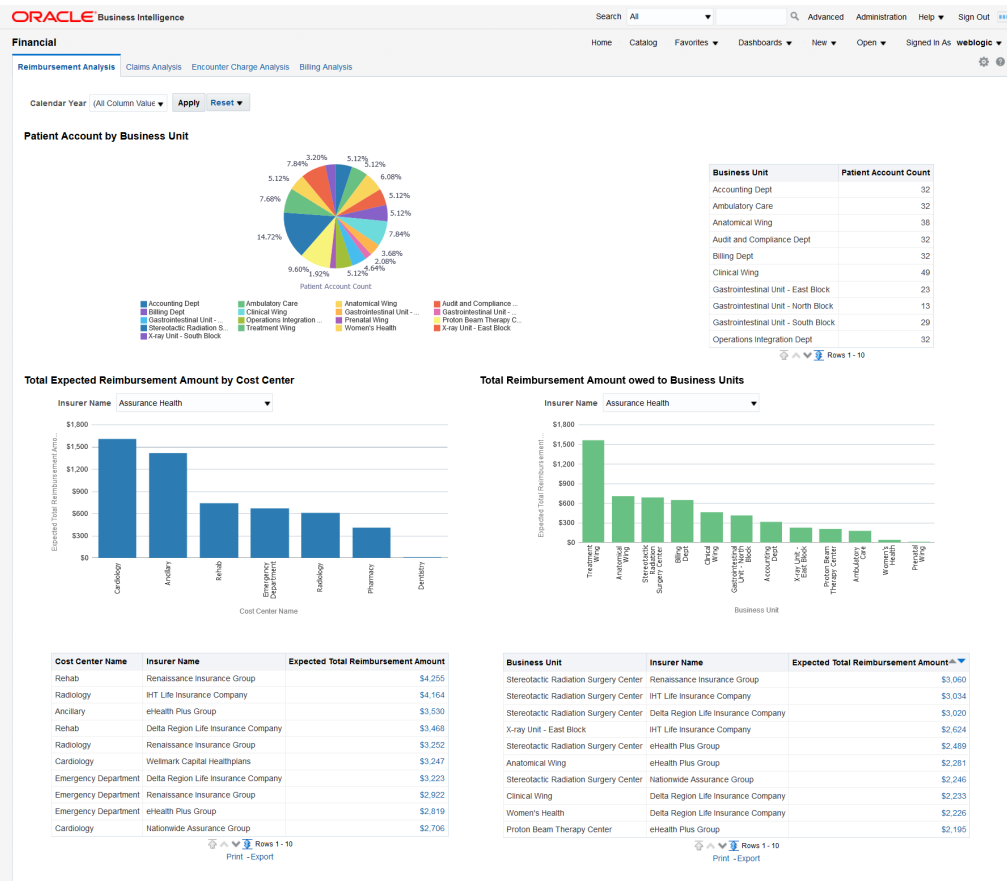
The Financial dashboard contains the following pages:

- [Reimbursement Analysis](#)
- [Claims Analysis](#)
- [Encounter Charge Analysis](#)
- [Billing Analysis](#)

## Reimbursement Analysis

The Reimbursement Analysis page covers the reimbursement amounts for the patient accounts.

Figure 2-12 Reimbursement Analysis Page



You can use the filter at the top of the page to focus on specific calendar years. This page has the following reports:

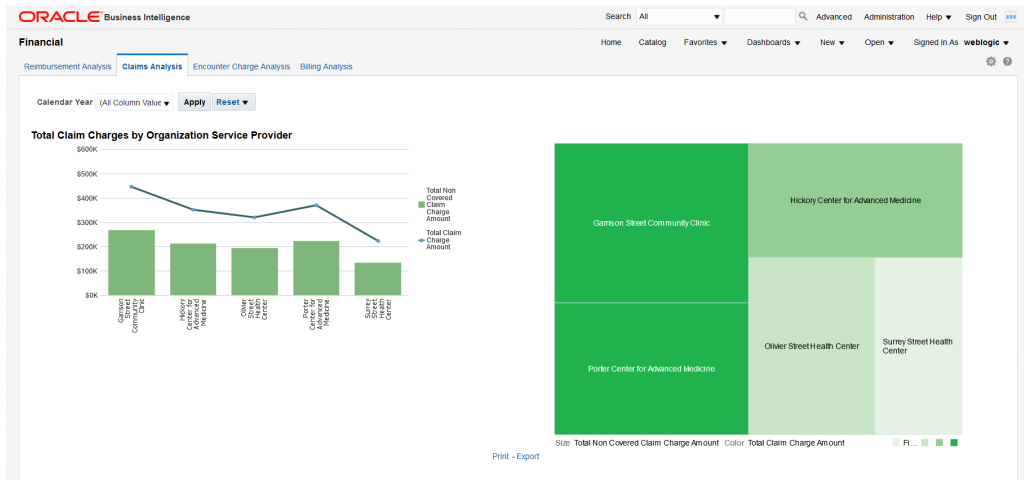
- Patient Account by Business Unit.** This report helps you understand the distribution of patient accounts across business units and it helps in resource planning to manage patient accounts effectively.
- Total Expected Reimbursement Amount by Cost Center, filtered by insurer -** This report indicates the degree to which each insurer impacts the income of different cost centers. Click on a bar in the graph to display details about all the patients insured by the selected insurer for that cost center. A tabular report below the graph lists the expected total reimbursement amounts for all the cost centers and insurers. Click on an amount to display details about all the patients insured by the selected insurer for that cost center.
- Total Reimbursement Amount owed to Business Units, filtered by insurer -** This report indicates the degree to which each insurer impacts the income of different business units. Click on a bar in the graph to display details about all the patients insured by the selected insurer for that business unit. A tabular report below the graph lists the expected total reimbursement amounts for all the business units and insurers. Click on an amount to display details about all the patients insured by the selected insurer for that business unit.

- A tabular report with patient, patient account, and reimbursement amount details. This report allows you to track the details of all the reimbursements that apply to each patient.

## Claims Analysis

The Claims Analysis page uses the Claim Submission subject area.

**Figure 2-13 Claims Analysis Page**



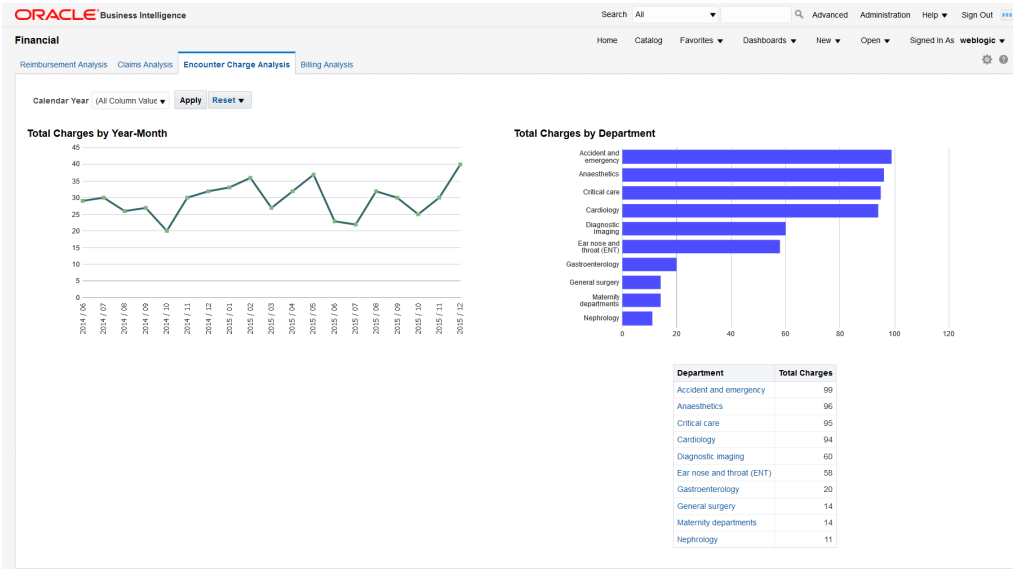
You can use the filter at the top of the page to focus on specific calendar years. This page has the following report:

- **Total Claim Charges by Organization Service Provider** - This report allows you to see the extent to which the charges claimed by each organization service provider are covered by insurers and to evaluate the risk of overdue or delinquent payments. The treemap chart on the right allows you to understand the exposure to the various service providers based on their relative sizes. Click on a bar in the graph to display a detailed list of all the claims for that organization. From there, you can click on an MRN to display all the billing details for a patient or you can click on a claim number to display additional details for that claim.



# Encounter Charge Analysis

**Figure 2-14 Encounter Charge Analysis Page**



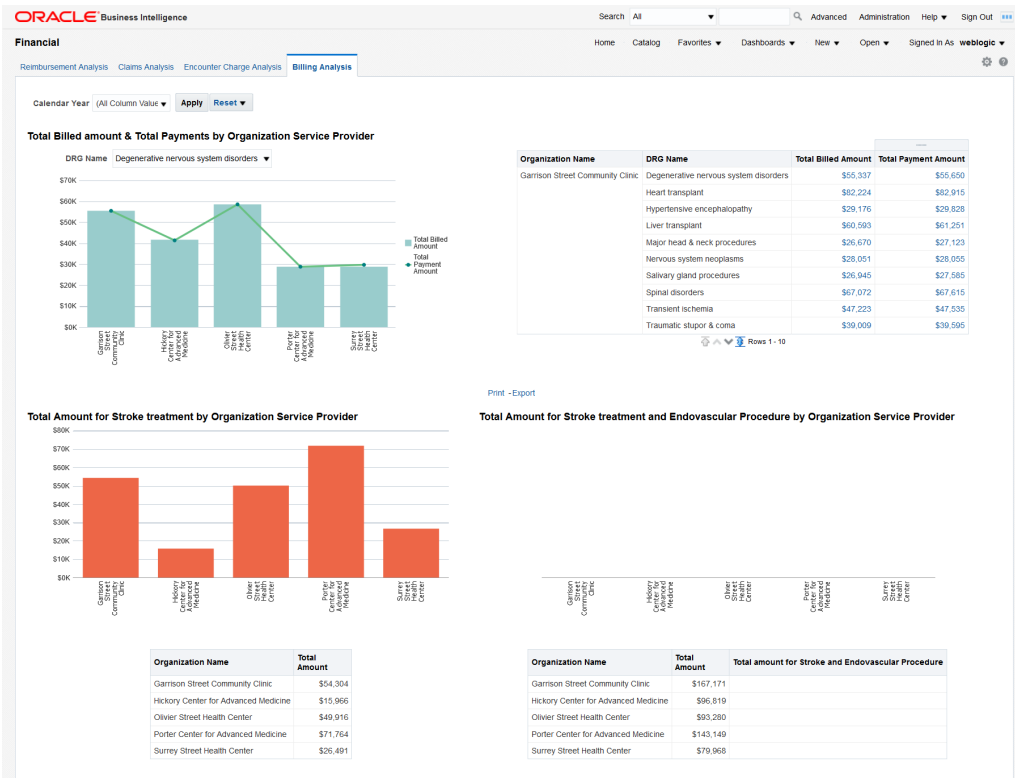
You can use the filter at the top of the page to focus on specific calendar years. This page has the following reports:

- **Total Charges by Year-Month** - This report helps you understand the trend in organization spending for patient services over a chosen period of time.
- **Total Charges by Department** - This report helps you understand the charging distribution between departments. Click on a bar in the graph or on a department name in the table to display a detailed list of all the patient charges for that department.

## Billing Analysis

The Billing Analysis page displays comparative billing information for your organizations and detailed bills for individual patients.

Figure 2-15 Billing Analysis Page



You can use the filter at the top of the page to focus on specific calendar years. This page has the following reports:

- **Total Billed Amount and Total Payments by Organization Service Provider** - Graphical report and a tabular report showing the total billed amount and the total payment by organization filtered by DRG. This report helps you identify costs and payments for patient services specific to each organization based on diagnosis-related groups. Click on a bar in the graph or on a total billed or payment amount to display a detailed list of all the bills for that DRG for the selected organization. From there, you can further drill down the details of a specific bill by clicking on a bill number.
- **Total Amount for Stroke Treatment by Organization Service Provider** - You can modify this report to use any diagnosis or procedure. This report helps you compare the costs that organization service providers spend on stroke treatments.
- **Total Amount for Stroke Treatment and Endovascular Procedure by Organization Service Provider** - This report helps you compare the costs that organization service providers spend on stroke treatments and endovascular procedures.

# Audit Trail and Usage Tracking Dashboard



## Note:

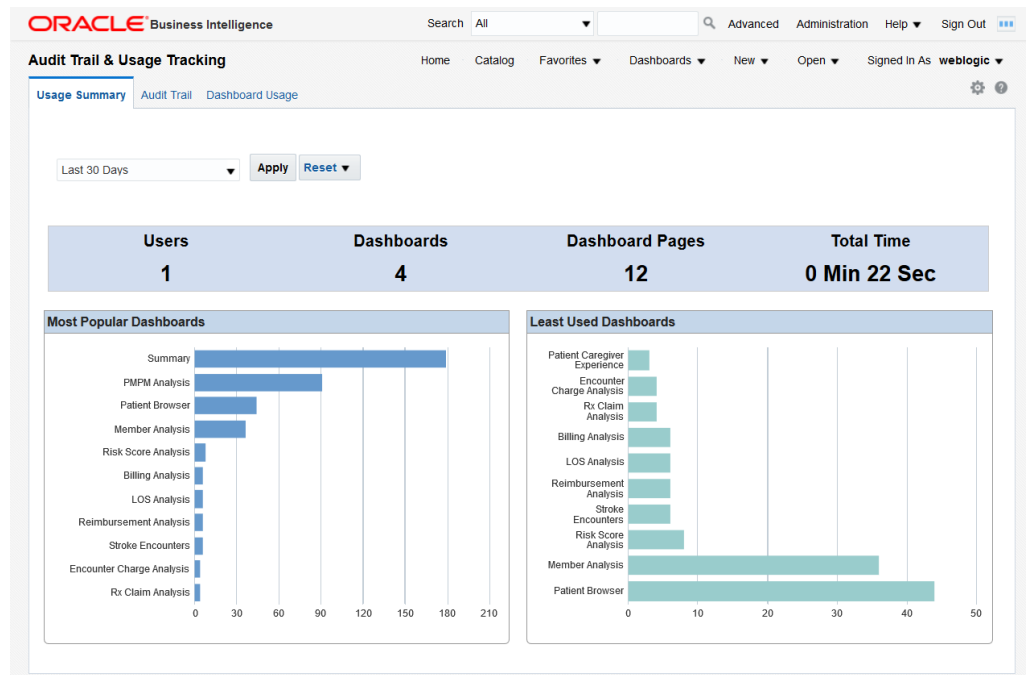
To use the Audit Trail and Usage Tracking Dashboard, you must enable usage tracking for Oracle Healthcare Foundation. For details, see [Enable the Oracle Healthcare Foundation SSA Usage Tracking](#).

The Audit Trail and Usage Tracking dashboard contains the following pages:

- [Usage Summary](#)
- [Audit Trail](#)
- [Dashboard Usage](#)

## Usage Summary

Figure 2-16 Usage Summary Page



You can use the filter at the top of the page to focus on the preferred time period. The page has the following reports:

- **Overview** - This report displays the total number of users, dashboards, pages, and the total display time for all the Oracle Healthcare Foundation Dashboards. Based on the overall usage of the dashboards, you can estimate their usefulness and the load on the system.

- Most Popular Dashboards and Least Used Dashboards - You can use these graphs to evaluate which areas of analysis are the most relevant for future development and which ones have a low impact and might be phased out. Click on a bar in the graph to display a detailed access log for that dashboard.

## Audit Trail

Figure 2-17 Audit Trail Page

The screenshot displays the Oracle Business Intelligence Audit Trail & Usage Tracking page. At the top, there is a navigation bar with 'ORACLE Business Intelligence' and a search bar. Below the navigation bar, the page title is 'Audit Trail & Usage Tracking'. The main content area has three tabs: 'Usage Summary', 'Audit Trail', and 'Dashboard Usage'. The 'Audit Trail' tab is selected. Below the tabs, there are filters for 'From' (02/24/2018), 'To' (03/26/2018), 'Dashboard Page' (All Column Values), and 'User Name' (All Column Values). There are 'Apply' and 'Reset' buttons. Below the filters is a table titled 'Usage Tracking' with the following columns: Start Date Time, End Date Time, User Name, Dashboard, Dashboard Page, and Total Time in Secs. The table contains 20 rows of data, showing various dashboard pages accessed by the user 'weblogic' over the specified time period. The 'Total Time in Secs' column shows the duration of each access.

Start Date Time	End Date Time	User Name	Dashboard	Dashboard Page	Total Time in Secs
02-MAR-18 11:05	02-MAR-18 11:05	weblogic	/shared/Oracle Healthcare Foundation/_portal/Value Based Care	Risk Score Analysis	4
01-MAR-18 02:47	01-MAR-18 02:48	weblogic	/shared/Oracle Healthcare Foundation/_portal/Clinical	Stroke Encounters	3
07-MAR-18 07:17	07-MAR-18 07:17	weblogic	/shared/Oracle Healthcare Foundation/_portal/Patient Browser	Patient Browser	3
08-MAR-18 08:32	08-MAR-18 08:32	weblogic	/shared/Oracle Healthcare Foundation/_portal/Clinical	Summary	2
13-MAR-18 06:30	13-MAR-18 06:30	weblogic	/shared/Oracle Healthcare Foundation/_portal/Patient Browser	Patient Browser	2
20-MAR-18 10:27	20-MAR-18 10:27	weblogic	/shared/Oracle Healthcare Foundation/_portal/Clinical	Summary	2
13-MAR-18 06:31	13-MAR-18 06:31	weblogic	/shared/Oracle Healthcare Foundation/_portal/Patient Browser	Patient Browser	1
16-MAR-18 05:57	16-MAR-18 05:57	weblogic	/shared/Oracle Healthcare Foundation/_portal/Patient Browser	Patient Browser	1
16-MAR-18 05:58	16-MAR-18 05:58	weblogic	/shared/Oracle Healthcare Foundation/_portal/Patient Browser	Patient Browser	1
16-MAR-18 05:59	16-MAR-18 05:59	weblogic	/shared/Oracle Healthcare Foundation/_portal/Patient Browser	Patient Browser	1
16-MAR-18 07:00	16-MAR-18 07:00	weblogic	/shared/Oracle Healthcare Foundation/_portal/Patient Browser	Patient Browser	1
26-MAR-18 01:45	26-MAR-18 01:45	weblogic	/shared/Oracle Healthcare Foundation/_portal/Patient Browser	Patient Browser	1
01-MAR-18 02:46	01-MAR-18 02:46	weblogic	/shared/Oracle Healthcare Foundation/_portal/Clinical	Summary	0
01-MAR-18 02:47	01-MAR-18 02:47	weblogic	/shared/Oracle Healthcare Foundation/_portal/Clinical	Stroke Encounters	0
01-MAR-18 02:47	01-MAR-18 02:47	weblogic	/shared/Oracle Healthcare Foundation/_portal/Clinical	Summary	0
01-MAR-18 02:48	01-MAR-18 02:48	weblogic	/shared/Oracle Healthcare Foundation/_portal/Patient Browser	Patient Browser	0
01-MAR-18 02:49	01-MAR-18 02:49	weblogic	/shared/Oracle Healthcare Foundation/_portal/Clinical	LOS Analysis	0
01-MAR-18 02:49	01-MAR-18 02:49	weblogic	/shared/Oracle Healthcare Foundation/_portal/Clinical	Summary	0
01-MAR-18 02:51	01-MAR-18 02:51	weblogic	/shared/Oracle Healthcare Foundation/_portal/Clinical	Summary	0
02-MAR-18 08:36	02-MAR-18 08:36	weblogic	/shared/Oracle Healthcare Foundation/_portal/Clinical	LOS Analysis	0

You can use the filters at the top of the page to focus on the preferred time period, dashboard page, and user.

This page displays a detailed access log based on the selected criteria for audit purposes.

## Dashboard Usage

Figure 2-18 Dashboard Usage Page

The screenshot shows the Oracle Business Intelligence interface for the 'Audit Trail & Usage Tracking' section, specifically the 'Dashboard Usage' page. The page includes filters for 'From' (02/24/2018), 'To' (03/26/2018), 'Dashboard Page' (All Column Values), and 'User Name' (All Column Values). Below the filters is a table titled 'Usage of Dashboards' with columns 'Dashboard', 'Dashboard Page', and 'Access Count'.

Dashboard	Dashboard Page	Access Count
/shared/Oracle Healthcare Foundation/_portal/Clinical	Summary	179
/shared/Oracle Healthcare Foundation/_portal/Value Based Care	PMPM Analysis	91
/shared/Oracle Healthcare Foundation/_portal/Patient Browser	Patient Browser	44
/shared/Oracle Healthcare Foundation/_portal/Value Based Care	Member Analysis	36
/shared/Oracle Healthcare Foundation/_portal/Value Based Care	Risk Score Analysis	8
/shared/Oracle Healthcare Foundation/_portal/Clinical	LOS Analysis	6
/shared/Oracle Healthcare Foundation/_portal/Clinical	Stroke Encounters	6
/shared/Oracle Healthcare Foundation/_portal/Financial	Billing Analysis	6
/shared/Oracle Healthcare Foundation/_portal/Financial	Reimbursement Analysis	6
/shared/Oracle Healthcare Foundation/_portal/Financial	Encounter Charge Analysis	4
/shared/Oracle Healthcare Foundation/_portal/Value Based Care	Rx Claim Analysis	4
/shared/Oracle Healthcare Foundation/_portal/Value Based Care	Patient Caregiver Experience	3

You can use the filters at the top of the page to focus on the preferred time period, dashboard page, and user.

The page displays a tabular report of the total access counts, based on the selected criteria. You can use this information to investigate the pages that are accessed the most by specific users or the users who access the most a specific dashboard page.

## Data Lineage Dashboard

### Note:

For information on how to enable data lineage for your customized reports and dashboards or for customized RPD files, see [Data Lineage Extensibility](#).

The Data Lineage dashboard contains the following pages:

- [Report Lineage](#)
- [Healthcare Common Datamart Lineage](#)

# Report Lineage

Figure 2-19 Report Lineage Page

Analysis Name	Subject Area	Presentation Table	Presentation Column	Logical Table	Logical Column	HCD Table	HCD Column	HDM Table	HDM Column	Interface Table	Interface Column
Member Analysis001	Member Month Eligibility	Eligibility Start Date	Calendar Year (Eligibility Start Date)	Dim-Eligibility Start Date	Calendar Year (Eligibility Start Date)	W_HCD_DAY_D	CAI_YEAR				
		Insurance Program Type Code	Insurance Program Type Code	Dim-Insurance Program Type Code	Insurance Program Type Code	W_HCD_INS_PROGRAM_TYP_DV	INS_PROGRAM_TYP_CODE				
	Member	Insurer Name (Insurer)	Dim-Member Insurer Name (Insurer)	Insurer Name (Insurer)	W_HCD_INSURER_D	INSURER_NAME	HDM_PRTY	PRTY_NM	HDI_ORG_PRTY	PRTY_NM	
		Member Number	Dim-Member Member Number	Member Number	W_HCD_MEMBER_D	MEMBER_NUM	HDM_MBR	MBR_NBR	HDI_MBR	MBR_NBR	
Member Analysis001_Reference	Member Month Eligibility	Member	Gender Name	Dim-Member Gender Name	Gender Name	W_HCD_MEMBER_D	GENDER_NAME				
		Member Age	Dim-Member Member Age	Member Age	W_HCD_MEMBER_D	BIRTH_DT	HDM_IND_PRTY	BIR_DT	HDI_IND_PRTY	BIR_DT	
		Member Name	Dim-Member Member Name	Member Name	W_HCD_MEMBER_D	FULL_NAME	HDM_PRTY	PRTY_NM	HDI_IND_PRTY	PRTY_NM	
		Member Number	Dim-Member Member Number	Member Number	W_HCD_MEMBER_D	MEMBER_NUM	HDM_MBR	MBR_NBR	HDI_MBR	MBR_NBR	

You can use the filters at the top of the page to focus on the preferred subject areas or reports.

The Report Lineage page tracks the data sources for the content displayed in the reports at the following levels: presentation, logical, datamart, data warehouse, and interface tables. This allows you to troubleshoot your reports and identify potential sources of errors in the Oracle Healthcare Foundation database or in Oracle Business Intelligence Enterprise Edition.

# Healthcare Common Datamart Lineage

Figure 2-20 Healthcare Common Datamart Lineage Page

HCD Table Name	HCD Column Name	HDM Table Name	HDM Column Name	Interface Table Name	Interface Column Name
W_HCD_INSURER_D	ADDR_EFF_DT	HDM_PRTY_ADDR	VALDTY_STRT_DT	HDI_PRTY_ADDR	VALDTY_STRT_DT
W_HCD_INSURER_D	ADDR_LINE_1	HDM_LOC	STRT_ADDR	HDI_LOC	STRT_ADDR
W_HCD_MED_CLAIM_F	ACT_LENGTH_STAY	HDM_MED_CLM	LEN_OF_STY	HDI_MED_CLM	LEN_OF_STY
W_HCD_MED_CLAIM_F	ADMIT_DT	HDM_MED_CLM	ADMSN_DT	HDI_MED_CLM	ADMSN_DT
W_HCD_MED_CLAIM_F	CLAIM_NUM	HDM_ADJCD_CLM	CLM_NBR	HDI_MED_CLM	CLM_NBR
W_HCD_MED_CLAIM_F	READMISSION_FLG	HDM_MED_CLM	READM_FLG	HDI_MED_CLM	READM_FLG

You can use the filters at the top of the page to focus on the preferred HCD tables and columns.

The Healthcare Common Datamart Lineage page displays the data mapping between the datamart, data warehouse, and interface tables. This allows you to better understand the Oracle Healthcare Foundation data model and better use the Oracle Healthcare Foundation data when building reports and dashboards.

# 3

## Enable the Oracle Healthcare Foundation SSA Usage Tracking

This chapter explains how to enable the Usage Tracking feature for Oracle Healthcare Foundation in Oracle Business Intelligence Enterprise Edition. This allows you to run the reports in the [Audit Trail and Usage Tracking Dashboard](#).

This chapter contains the following topics:

- [Set Up the Data Model](#)
- [Enable the Usage Tracking Feature in the NQConfig.INI File](#)
- [Configure the Oracle Healthcare Foundation SSA RPD File](#)
- [Deploy the OHF SSA RPD File](#)

### Set Up the Data Model

Make sure the Repository Creation Utility (RCU) has been successfully run while installing Oracle Business Intelligence Enterprise Edition. You should have the *prefix\_BIPLATFORM* schema installed with the following tables in it:

- **S\_NQ\_ACCT**
  - **S\_NQ\_DB\_ACCT**
  - **S\_NQ\_INITBLOCK**
1. Go to *OBIEE\_HOME/bi/bifoundation/samples/usagetracking*.
  2. Extract the *UsageTracking-datafiles.zip* archive.
  3. Connect to the *prefix\_BIPLATFORM* schema and execute the following SQL scripts in order:
    - a. *Oracle\_create\_nQ\_Calendar.sql*
    - b. *Oracle\_create\_nQ\_Clock.sql*
    - c. *Oracle\_nQ\_Calendar.sql*
    - d. *Oracle\_nQ\_Clock.sql*
  4. Create a view in the *prefix\_BIPLATFORM* schema:

```
CREATE OR REPLACE VIEW nq_login_group AS SELECT DISTINCT user_name AS login FROM s_nq_acct;
```



## Enable the Usage Tracking Feature in the NQSCONFIG.INI File

1. Go to `OBIEE_HOME/user_projects/domains/bi_domain/config/fmwconfig/biconfig/OBIS/`.
2. Open the **NQSCONFIG.INI** file in a text editor.
3. In the [Usage Tracking] section set the `ENABLE` parameter to **YES**.
4. Set the `DIRECT_INSERT` parameter to **YES**.
5. Set the `PHYSICAL_TABLE_NAME` parameter to point to the `S_NQ_ACCT` table in the `prefix_BIPLATFORM` schema in the following format:  
`"Database"."Catalog"."Schema"."Table";`

Use the database, catalog, schema, and table names predefined in the Oracle Healthcare Foundation SSA RPD file:

- **Database:** "OHF Usage Tracking"
- **Catalog:** "Catalog"
- **Schema:** "dbo"
- **Table Name:** "S\_NQ\_ACCT"

6. Set the `CONNECTION_POOL` parameter in the following format  
`"Database"."Connection Pool";`

Use the database and connection pool values predefined in the Oracle Healthcare Foundation SSA RPD file:

- **Database:** "OHF Usage Tracking"
- **Connection Pool:** "OHF Usage Tracking Connection Pool"

7. Uncomment the `INIT_BLOCK_TABLE_NAME` parameter and set it to point to the `S_NQ_INITBLOCK` table in the `prefix_BIPLATFORM` schema in the following format: `"Database"."Catalog"."Schema"."Table";`

Use the following values:

- **Database:** "OHF Usage Tracking"
- **Catalog:** "Catalog"
- **Schema:** "dbo"
- **Table Name:** "S\_NQ\_INITBLOCK"

8. Uncomment the `INIT_BLOCK_CONNECTION_POOL` parameter and set it to refer to the connection pool for writing statuses to the `S_NQ_INITBLOCK` table in the `prefix_BIPLATFORM` schema in the following format: `"Database"."Connection Pool";`

Use the database and connection pool values predefined in the Oracle Healthcare Foundation SSA RPD file:

- **Database:** "OHF Usage Tracking"
- **Connection Pool:** "OHF Usage Tracking Connection Pool"

The above parameters should be set as below:

```

=====
=====
# Parameters used for inserting data into the table (i.e.
DIRECT_INSERT = YES).
# Init-Block Tracking Options are commented out and as a result
disabled.
# To enable Init-Block Tracking Feature, define the two parameters
for
# Init-Block, INIT_BLOCK_TABLE_NAME and INIT_BLOCK_CONNECTION_POOL.
PHYSICAL_TABLE_NAME = "OHF Usage
Tracking"."Catalog"."dbo"."S_NQ_ACCT"; # Or
"Database"."Schema"."Table" ;
CONNECTION_POOL = "OHF Usage Tracking"."OHF Usage Tracking
Connection Pool";
INIT_BLOCK_TABLE_NAME = "OHF Usage
Tracking"."Catalog"."dbo"."S_NQ_INITBLOCK" ; # Or
"<Database>"."<Schema>"."<Table>" ;
INIT_BLOCK_CONNECTION_POOL = "OHF Usage Tracking"."OHF Usage
Tracking Connection Pool";

```

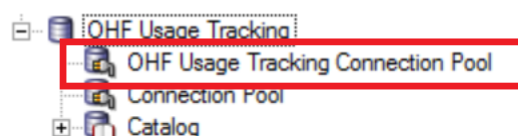
9. Stop and restart the Oracle Business Intelligence Enterprise Edition Services using the stop and start scripts available in *OBIEE\_HOME/user\_projects/domains/bi\_domain/bitools/bin*.

## Configure the Oracle Healthcare Foundation SSA RPD File

Update the Oracle Healthcare Foundation Usage Tracking Connection Pool in the Oracle Healthcare Foundation SSA RPD file to point to the *prefix\_BIPLATFORM* schema:

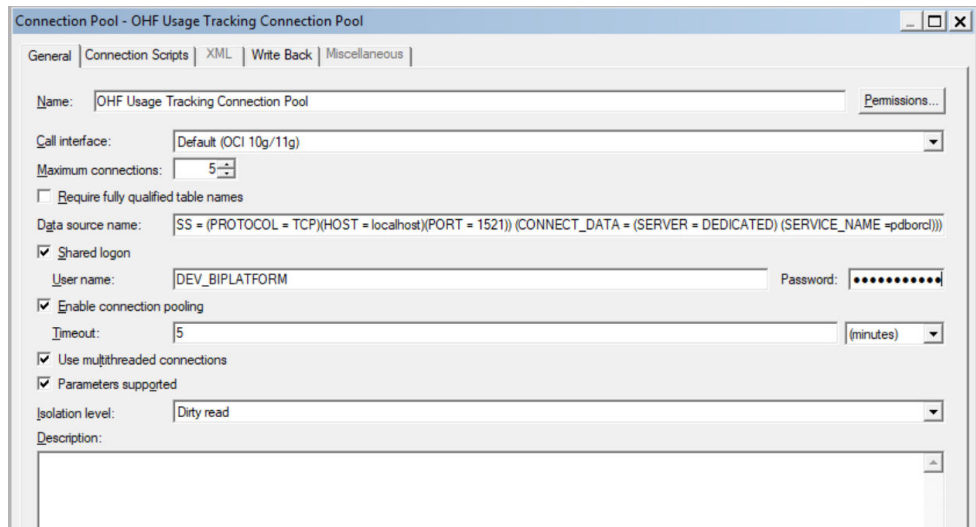
1. In the **Oracle Business Intelligence Administration Tool**, navigate to the *selfserviceanalytics\hcd\_rpd* folder.
2. Open the *ohf\_ssa\_hcd.rpd* file.
3. In the RPD Physical layer, expand **OHF Usage Tracking** and double-click **OHF Usage Tracking Connection Pool**.

**Figure 3-1** Selecting the Oracle Healthcare Foundation Usage Tracking Connection Pool



4. Update the data source name with the database host name, port number, and service name of the *prefix\_BIPLATFORM* schema.
5. Update the username as the *prefix\_BIPLATFORM* schema name.
6. Enter the schema password and confirm.

**Figure 3-2 Oracle Healthcare Foundation Usage Tracking Connection Pool Setup**



7. Save the `ohf_ssa_hcd.rpd` file and choose **No** when prompted for Consistency Check.

## Deploy the OHF SSA RPD File

Use the `datamodel.sh` utility to upload the RPD file to the Oracle Business Intelligence Enterprise Edition server:

1. Go to `[OBIEE_HOME]/user_projects/domains/bi/bitools/bin/`.
2. Run the `datamodel.sh` utility using the following syntax:

```
datamodel.sh uploadrpd -I location of rpd file to be uploaded -W RPDpwd -SI Service Instance Name -U weblogic user -P weblogic password
```

To find the Service Instance Name, look in the `OBIEE Home/user_projects/domains/bi/bidata/service_instances` directory. For example:

**Figure 3-3 Running the datamodel.sh Utility**

```
[oemora@den021yp bin]$ sh datamodel.sh uploadrpd -I /scratch/dump/ohf_ssa_hcd.rpd -W Admin123 -SI ssi -U weblogic -P weblogic
Service Instance: ssi
Operation successful.
RPD upload completed successfully.
```

After usage tracking is enabled, Oracle Business Intelligence Enterprise Edition starts to log usage information and statistics and display this information in the [Audit Trail and Usage Tracking Dashboard](#).

# 4

## Data Lineage Extensibility

This chapter explains how to set up the [Data Lineage Dashboard](#) to work with customized reports or Oracle Business Intelligence metadata RPD files:

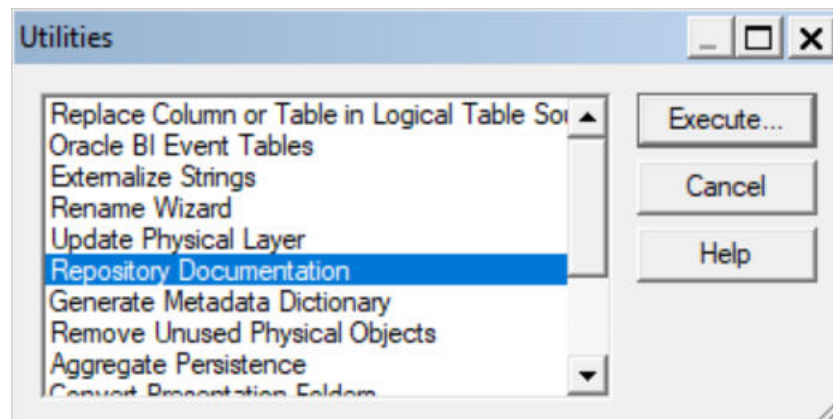
- [Refresh the RPD Lineage Metadata](#)
- [Refresh the Catalog Lineage Metadata](#)
- [Refresh the Oracle Business Intelligence Enterprise Edition Dashboards](#)

### Refresh the RPD Lineage Metadata

If the Oracle Healthcare Foundation SSA RPD files has been extended, follow the instructions below to refresh the RPD lineage metadata:

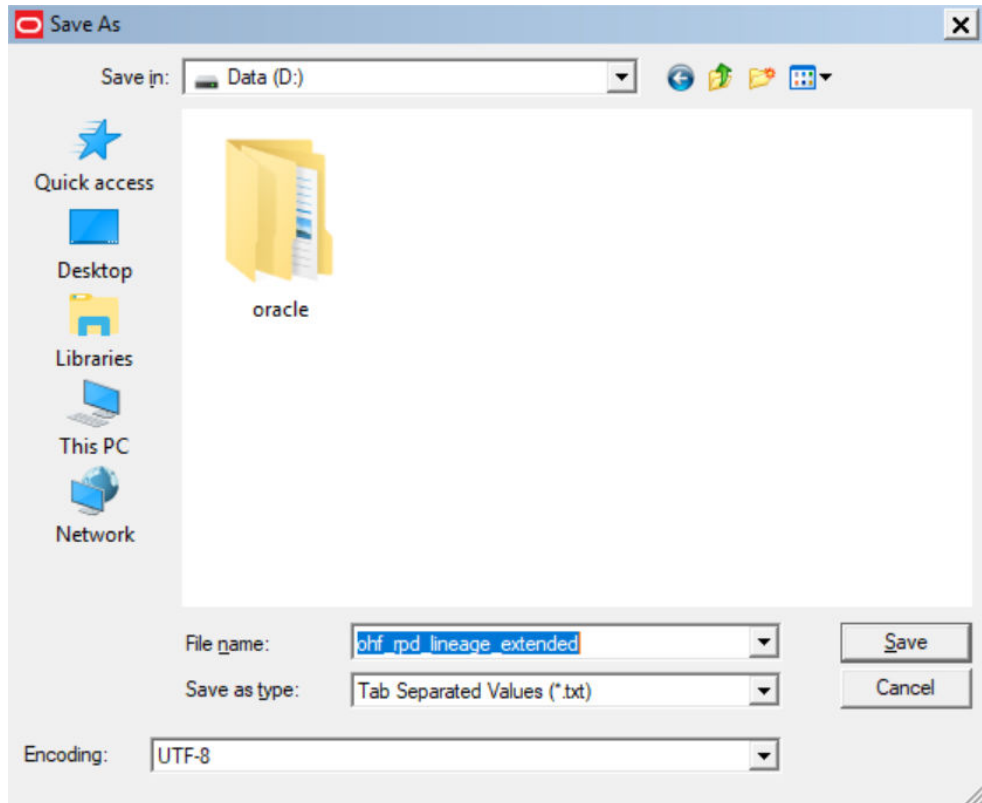
1. Open the extended RPD file in the Oracle Business Intelligence Administration Tool.
2. Go to **Tools** and select **Utilities**.
3. Select **Repository Documentation** and click **Execute**.

**Figure 4-1 Utilities Window**



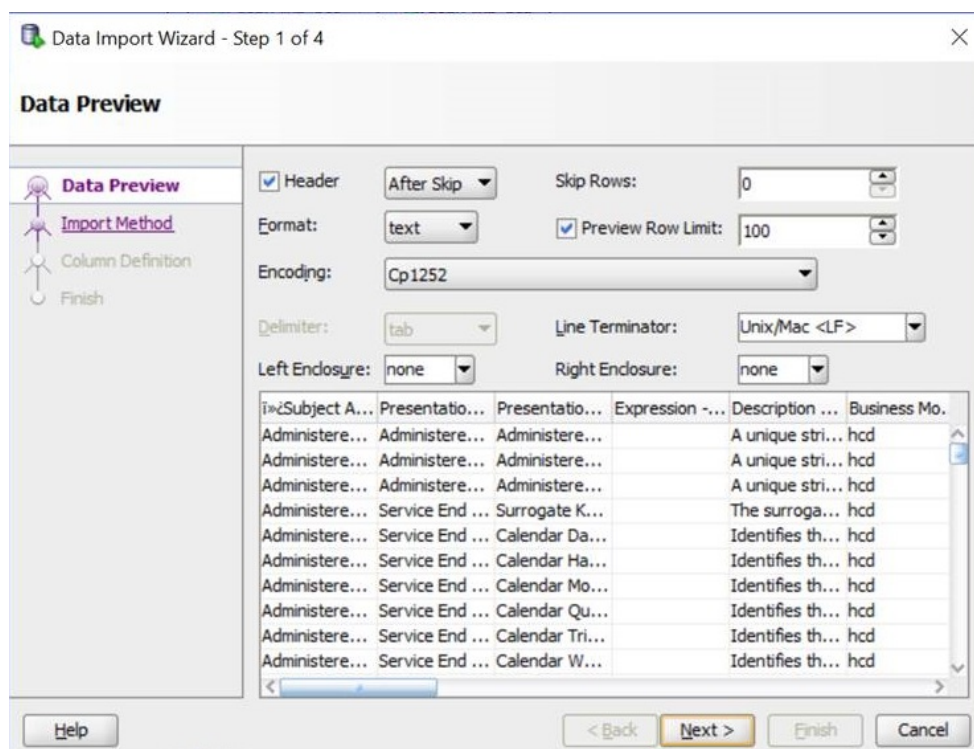
4. Navigate to a directory where you want to save the repository metadata.
5. In the **Save as type:** selection box, choose **Tab Separated Values (\*.txt)**.
6. Enter a name for the file and click **Save**.

Figure 4-2 Saving the RPD Data Lineage



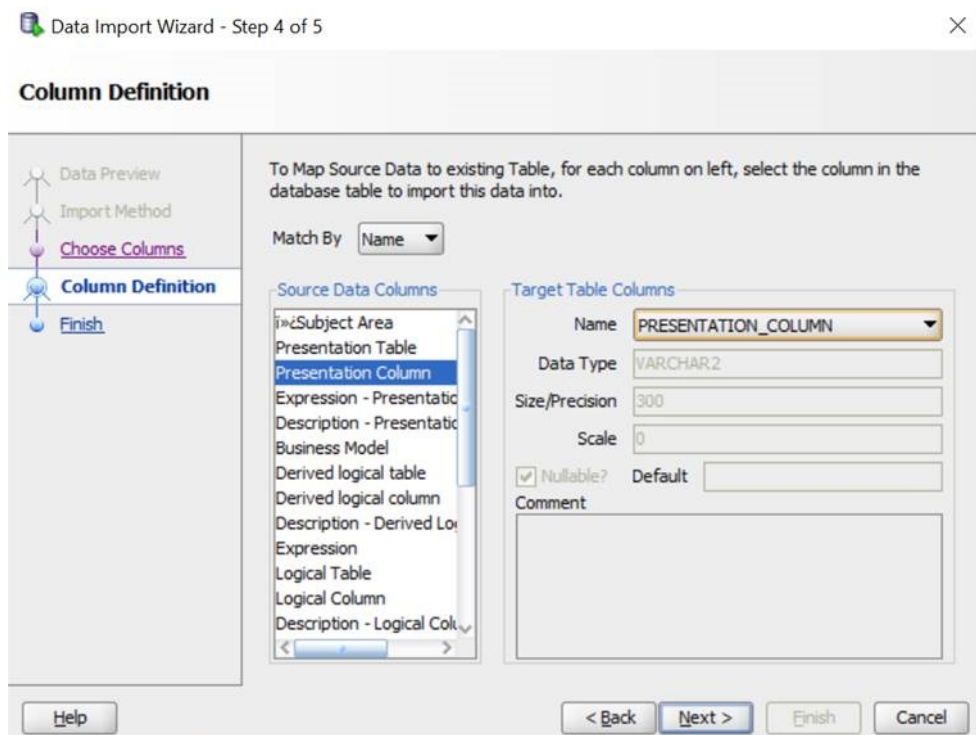
7. After the export completes, change the file's extension from .txt to .tsv.
8. Open **SQL Developer**.
9. Connect to the **OHF Enterprise Schema** where the OHF\_RPD\_LINEAGE table is installed.
10. Expand the **Tables Section**.
11. Right click on the **OHF\_RPD\_LINEAGE** table and select **Import Data**.
12. In the file browser, navigate to the location where you exported the RPD metadata file.
13. Choose the **\*.tsv** file type and select the exported RPD metadata file.
14. Click **Open**.
15. When prompted to Import Data Record Terminator, click **OK**.
16. When prompted to Import Data Field Format, click **OK**.
17. In the Data Preview screen of the Data Import Wizard, set the Left Enclosure to **none**.

Figure 4-3 Data Preview



18. In the Import Data Field Format screen, click **OK**.
19. Click **Next**.
20. In the Import Method screen, click **Next**.
21. In the Selected Columns panel, make sure all columns are listed and click **Next**.
22. In the Column Definition screen, map all the source data columns to the target table columns. The source and target columns have similar names and can be matched either by name or by order.

Figure 4-4 Column Definition



23. After you map all the columns, click **Next**.
24. Click **Finish**.
25. A data import progress screen is displayed.
26. After the import is complete, a success message is displayed. Click **OK**.
27. Query the **OHF\_RPD\_LINEAGE** table to retrieve the record count and compare it with the row count in the RPD Metadata file:

```
Select count(*) from OHF_RPD_LINEAGE;
```

## Refresh the Catalog Lineage Metadata

If the Oracle Healthcare Foundation SSA Dashboards have been extended, follow the instructions below to refresh the RPD lineage metadata:

1. Open the Command Prompt.
2. Navigate to the `bi\bitools\bin` subdirectory in the Oracle Business Intelligence Client Tool installation directory. For example:
 

```
cd C:\Install\middleware\BI_Home\bi\bitools\bin
```
3. Create a `.txt` file with the Oracle WebLogic Server credentials in the following format:
 

```
login=username
pwd=password
```
4. Execute the following command:

```
runcat.cmd -cmd report -online BI Analytics URL where the dashboard  
catalog contents reside -credentials Path to the credentials  
file containing the weblogic user name and password -outputFile  
Path to the output file with extension .csv where the catalog  
metadata contents have to be stored -folder Location of the  
OBI Catalog Folder -delimiter "|~" -type "Analysis" -fields  
"Owner:Folder:Name:Path:Subject Area:Table:Column:Formula"
```

For example:

```
runcat.cmd -cmd report -online http://obixxx.mycompany.com:9504/  
analytics/saw.dll? -credentials D:/login.txt -outputFile  
D:/ohf_hcd_catalog.csv -folder "/shared/Oracle Healthcare  
Foundation" -delimiter "|~" -type "Analysis" -fields  
"Owner:Folder:Name:Path:Subject Area:Table:Column:Formula"
```

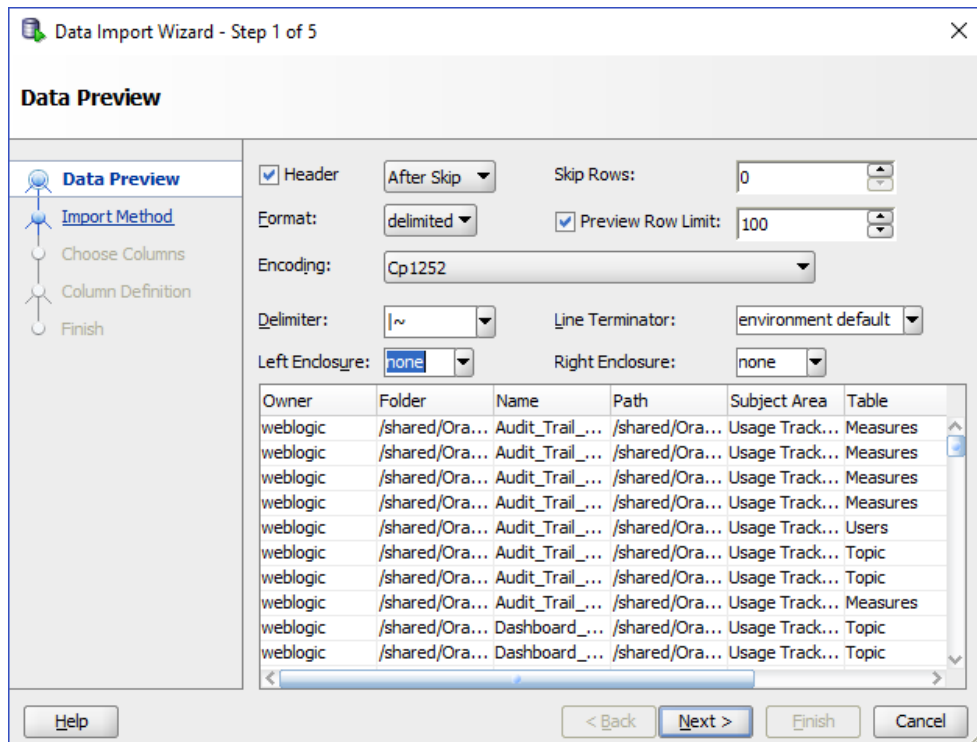
5. After completion, a success message is displayed:

```
Making SOAP connection to http://obixxx.mycompany.com:9504/  
analytics/saw.dll? Running Report..4..3..2..1..0..Done!
```

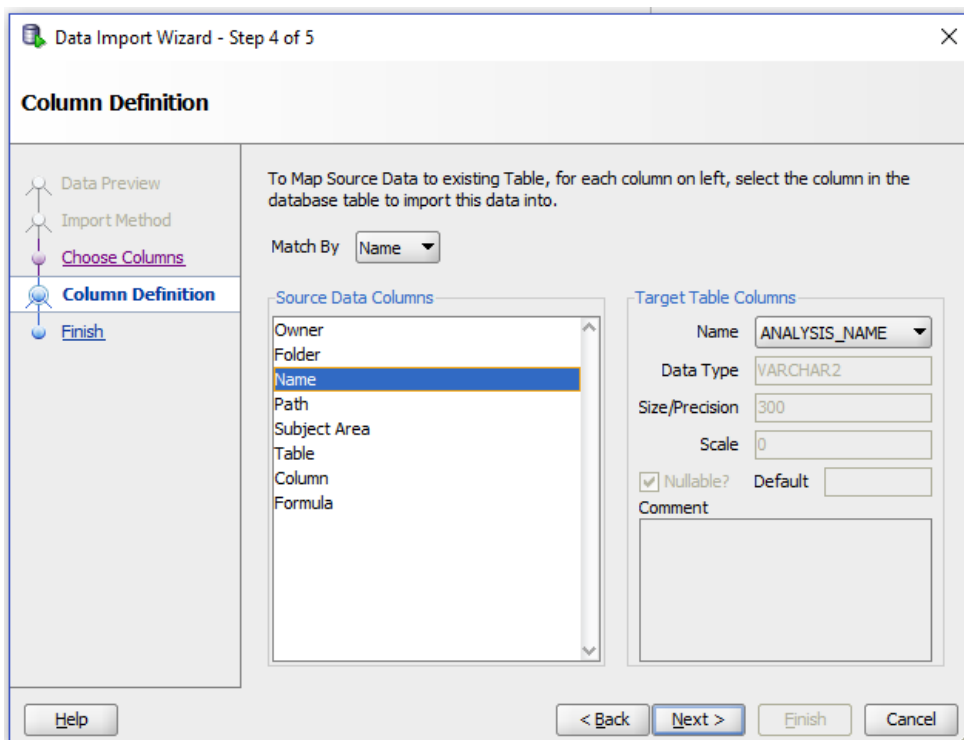
6. Open SQL Developer.
7. Connect to the Oracle Healthcare Foundation Enterprise Schema where the **OHF\_CATALOG\_LINEAGE** table is installed.
8. Expand the **Tables** section.
9. Right click on the **OHF\_CATALOG\_LINEAGE** table and select **Import Data**.
10. In the File browser, navigate to the location where the **Catalog Metadata** File is saved.
11. Choose the **.csv** file type and select the **Catalog Metadata** file.
12. Click **Open**.
13. When prompted to Import Data Record Terminator, click **OK**.
14. When prompted to Import Data Field Format, click **OK**.
15. In the Data Import Wizard, select the **delimited** format.
16. Set the Delimiter to **|~**.
17. Set the Left Enclosure to **none**.



Figure 4-5 Data Preview



18. When prompted to Import Data Field Format, click **OK**.
19. Click **Next**.
20. In the Import Method screen, click **Next**.
21. In the Selected Columns pane, make sure all columns are listed and click **Next**.
22. In the Column Definition screen, map all the source data columns to the target table columns. The source and target columns have similar names and can be matched either by name or by order.

**Figure 4-6 Column Definition**

23. After you map all the columns, click **Next**.
24. Click **Finish**.
25. A data import progress screen is displayed.
26. After the import is complete, a success message is displayed. Click **OK**.
27. Query the **OHF\_CATALOG\_LINEAGE** table to retrieve the record count and compare it with the row count in the Catalog Metadata file:

```
Select count(*) from OHF_CATALOG_LINEAGE;
```

## Refresh the Oracle Business Intelligence Enterprise Edition Dashboards

To view the updated data lineage information in the [Data Lineage Dashboard](#), purge the Oracle Business Intelligence Enterprise Edition cache by following the instructions below:

1. Log in to the Oracle Business Intelligence Analytics page. For example: `http://obixxx.mycompany.com:9704/analytics`
2. Go to **Administration**.
3. In the Session Management section, select **Manage Sessions**.
4. Click **Close All Cursors**.
5. Go to **Administration**.
6. In the Maintenance and Troubleshooting section, select **Issue SQL**.

7. In the Issue SQL screen, type the following command in the text box:

```
Call sapurgeallcache()
```

8. Click **Issue SQL**.
9. After purging the cache, the following success message is displayed.

```
[59118] Operation SAPurgeAllCache succeeded!
```

Now, the custom reports will be visible in the [Data Lineage Dashboard](#).