

Oracle® Cloud

Import Purchase Orders from Oracle ERP Cloud to Microsoft SQL Server



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Preface

This document describes how to install, configure, and run this recipe in Oracle Integration 3.

Topics:

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Related Resources

For more information, see these Oracle resources:

- Oracle Integration documentation on the Oracle Help Center.
- Oracle Cloud at <http://cloud.oracle.com>.

Conventions

The following text conventions are used in this document.

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

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About This Recipe

Use this recipe to import purchase order details (and associated customer data) from Oracle ERP Cloud to a Microsoft SQL Server database.



Note:

This recipe is available as **Oracle ERP Cloud — Microsoft SQL | Import Purchase Order Details** in the Integration Store. Oracle provides this recipe as a sample only. The recipe is meant only for guidance, and is not warranted to be error-free. No support is provided for this recipe.

Overview

This is an application-driven recipe that saves the order details (and associated customer data) in a Microsoft SQL Server database whenever a purchase order is created in Oracle ERP Cloud.

To use the recipe, you must install the recipe and configure the connections and other resources within the recipe. When a purchase order is created in Oracle ERP Cloud, the integration flow of the recipe is triggered, and it saves the purchase order details in a Microsoft SQL Server database.

System and Access Requirements

- Oracle Integration, Version 23.8.0.0.0 or higher
- Oracle ERP Cloud
- An account on Oracle ERP Cloud with the Administrator role
- A Microsoft SQL Server database
- An account on the Microsoft SQL Server database with the Administrator role

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Before You Install the Recipe

You must perform the following configuration tasks on your Oracle ERP Cloud and Microsoft SQL Server instances in order to successfully connect to these external systems using Oracle Integration and import purchase order details.

Configure Oracle ERP Cloud

To access the Oracle ERP Cloud instance from Oracle Integration, you'll require a separate user account on Oracle ERP Cloud.

Log in to your Oracle ERP Cloud instance as an **Administrator** and perform the following tasks.

1. Create a user account for Oracle Integration. Make a note of the user name and password you set for the account. You'll use the credentials of this user account to connect to Oracle ERP Cloud from Oracle Integration.
2. Assign the following roles to the user account. For more information on these roles, see [Assign Required Roles to an Integration User](#).
 - Integration Specialist
 - Oracle ERP Cloud-specific data access to the integration user


Configure the Microsoft SQL Server Database

To access the Microsoft SQL Server database from Oracle Integration and import customer and purchase order details, you must perform certain configurations on your Microsoft SQL Server instance. See [Prerequisites for Creating a Connection](#).

In addition, log in to your Microsoft SQL Server Management Studio and add tables according to the following information. See [Create Tables \(Database Engine\)](#).

1. Create `Customer` table with the following columns.

Column	Datatype
BuyerId	varchar(255)
PersonName	varchar(255)
Gender	varchar(255)
Email	varchar(255)

 **Note:**
Select this variable as the **Primary Key (PK)** and **Not Null (NN)**.

Column	Datatype
WorkPhone	varchar(255)
Address1	varchar(255)
Address2	varchar(255)
Building	varchar(255)
City	varchar(255)
Province	varchar(255)
PostalCode	varchar(255)
Country	varchar(255)

2. Similarly, create another table named `PurchaseOrder`, and add the following columns.

Column	Datatype
POHeaderId	varchar(255)



Note:

Select this variable as the **Primary Key (PK) and Not Null (NN)**.

OrderNumber	varchar(255)
ProcurementBU	varchar(255)
BuyerId	varchar(255)
Buyer	varchar(255)
Ordered	varchar(255)
Supplier	varchar(255)
SupplierId	varchar(255)
Currency	varchar(255)
DiscountAmount	varchar(255)
TotalTax	varchar(255)
Total	varchar(255)

3. Create another table named `PurchaseOrderDetail`, and add the following columns.

Column	Datatype
POHeaderId	varchar(255)



Note:

Select this variable as the **Primary Key (PK) and Not Null (NN)**.


OrderNumber	varchar(255)
POLineId	varchar(255)

Column	Datatype
LineNumber	varchar(255)
LineType	varchar(255)
Quantity	varchar(255)
Item	varchar(255)
SupplierId	varchar(255)
ItemId	varchar(255)
ItemDescription	varchar(255)
Price	varchar(255)

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Install and Configure the Recipe


On your Oracle Integration instance, install the recipe to deploy and configure the integration and associated resources.

1. On the Oracle Integration Home page, in the **Use a recipe/accelerator** section, click **View all**.
2. Find the recipe you want to install, then click **Get**.
A message confirms that the recipe was successfully installed, and the recipe card shows **In use**.
3. Click **Configure**  on the recipe to configure its resources.
The project workspace opens, displaying all the resources of the recipe. Configure the following resources before you activate and run the recipe.

Configure the Oracle ERP Cloud Connection

1. In the Connections section, click the connection name.
2. In the Properties section, enter the Oracle ERP Cloud host name. For example: `https://your_domain_name.fa.DC.oraclecloud.com`.
3. In the Security section, enter the following details:

Field	Information to Enter
Security Policy	Select Username Password Token .
User Name	Enter the user name of the account created for Oracle Integration on the Oracle ERP Cloud instance. See Configure Oracle ERP Cloud .
Password	Enter the password of the account created for Oracle Integration on the Oracle ERP Cloud instance.

4. Click **Save**. If prompted, click **Save** again.
5. Click **Test** to ensure that your connection is successfully configured. In the resulting dialog, click **Test** again.
A message confirms if your test is successful.
6. To return to the project workspace, click **Go back** .

Configure the Oracle Microsoft SQL Server Connection

1. In the Connections section, click the connection name.
2. In the Properties section, enter the following details:


Field	Information to Enter
Host Name	Enter the Microsoft SQL Server host name.
Port	Enter the Microsoft SQL Server port.
Database Name	Enter the name of the database.

3. In the Security section, enter the following details:

Field	Information to Enter
Username	Enter the username of your Microsoft SQL Server instance.
Password	Enter the password of your Microsoft SQL Server instance.

4. Click **Save**. If prompted, click **Save** again.
5. Click **Test** to ensure that your connection is successfully configured. In the resulting dialog, click **Test** again.

A message confirms if your test is successful.

6. To return to the project workspace, click **Go back** .

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Activate and Run the Recipe

After you've configured the connections and other resources, you can activate and run the recipe.

1. In the project workspace, click **Activate**. In the Activate project panel, with the default project deployment selected, choose an appropriate tracing option, then click **Activate**.

A message confirms that the integration has been activated. Refresh the page to view the updated status of the integration.

2. Run the recipe.

Create a purchase order in Oracle ERP Cloud.

- a. Log in to your Oracle ERP Cloud instance with the Sales User role.
- b. Click **Procurement**, then **Purchase Orders**, and then **Tasks**.
- c. Under **Orders**, click **Create Order**.
- d. In the Create Order window, specify the details of the purchase order and click **Create**.
- e. Further, add line items to the purchase order and click **Submit**.

You've now successfully triggered the recipe.

3. Monitor the running of the integration flow in Oracle Integration.
 - a. In the project workspace, click **Observe**. You'll see the integration flow being triggered and running successfully.
 - b. To manage errors in your project, see *Manage Errors in a Project*.
4. Log in to the Microsoft SQL Server Management Studio and verify if the purchase order details and associated customer data are populated in the database tables.

In SQL Server Object Explorer, right-click any of the tables you created earlier and select **View Data**.

Related Documentation

- *Using the Oracle ERP Cloud Adapter with Oracle Integration 3*
- *Using the Microsoft SQL Server Adapter with Oracle Integration 3*