# Exercises - Adapter

## WebMethods Integration Workshop

**WebMethods CoE**

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# ADAPTERS

## Introduction

The webMethods JDBC Adapter is an add-on to the webMethods Integration Server that enables you to exchange data with relational databases through the use of a JDBC driver. The adapter provides seamless and real-time communication with the database without requiring changes to your existing application infrastructure.

Using the JDBC Adapter, webMethods Integration Server clients can create and run services that execute transactions to retrieve data from, and insert and update data in, relational databases.

This document will help on the hands on for developers on creation of the adapter services using the templates Select, Insert and Update.

We expect the developers to go through the documentation and try the other adapter templates to get hands on.

## Theory

### Guides to complete

- 6-5_JDBC_Adapter_Users_Guide (Chapter 1-5)

## Practical

## Database table Structure:

Create the below table in database to start with adapters exercise.

## Order_Cust_PO_LINE Table:

| Column | Data Type |
|---|---|
| PO_ID | VARCHAR(15) |
| LINE_IO | NUMERIC(2) |
| ITEM_CODE | VARCHAR(10) |
| ITEM | VARCHAR(20) |
| ITEM_CATEGORY | VARCHAR(25) |
| QUANTITY | NUMERIC(5) |
| UNIT_PRICE | NUMERIC(5) |
| TOTAL_PRICE | NUMERIC(10) |

## Creating JDBC Adapter Connection:

Create two JDBC Adapter Connections for Local Transaction and No Transaction with names below
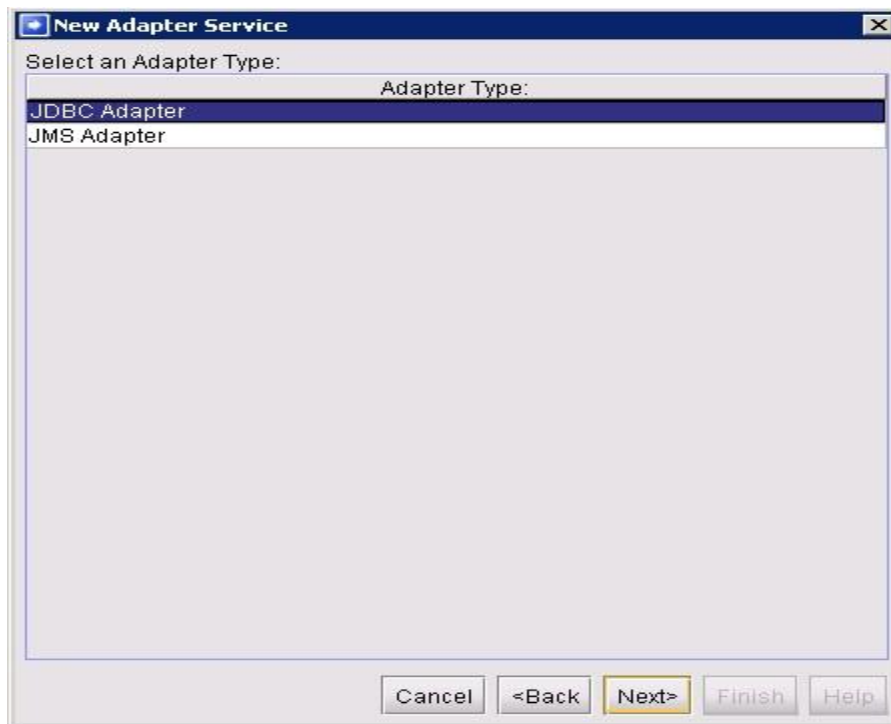
- **connOrderDB_LT**
- **connOrderDB_NT**

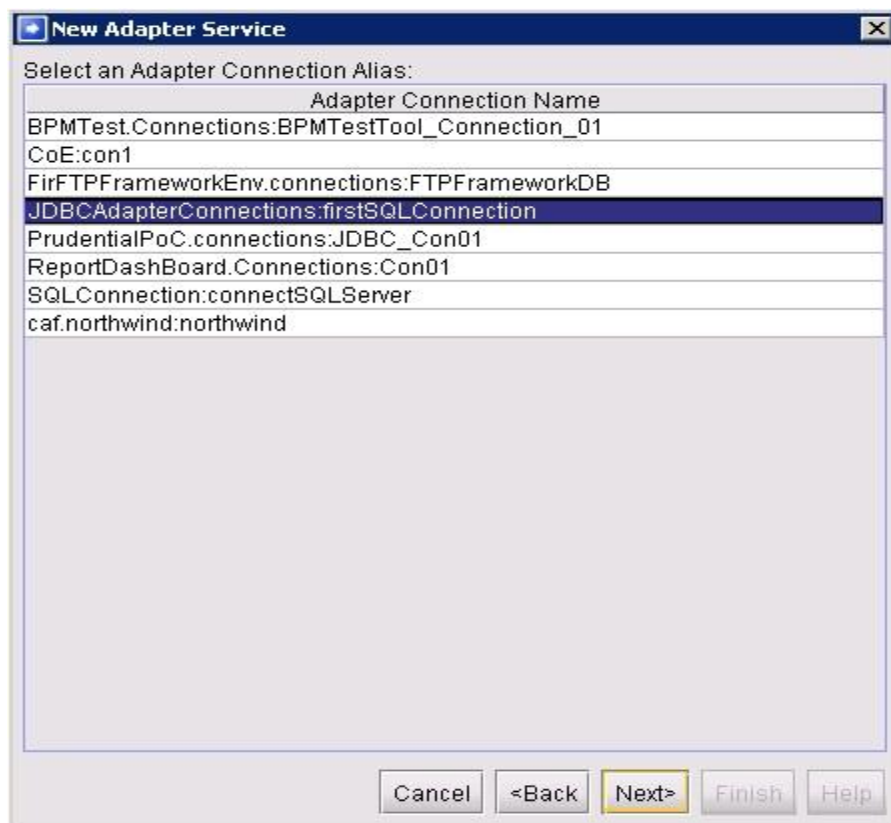# INSERT ADAPTER CREATION

## Steps to create INSERT Adapter Service:

1) Right click on adapter folder select **New** -> **All Choices**. Developer opens the **New** wizard.

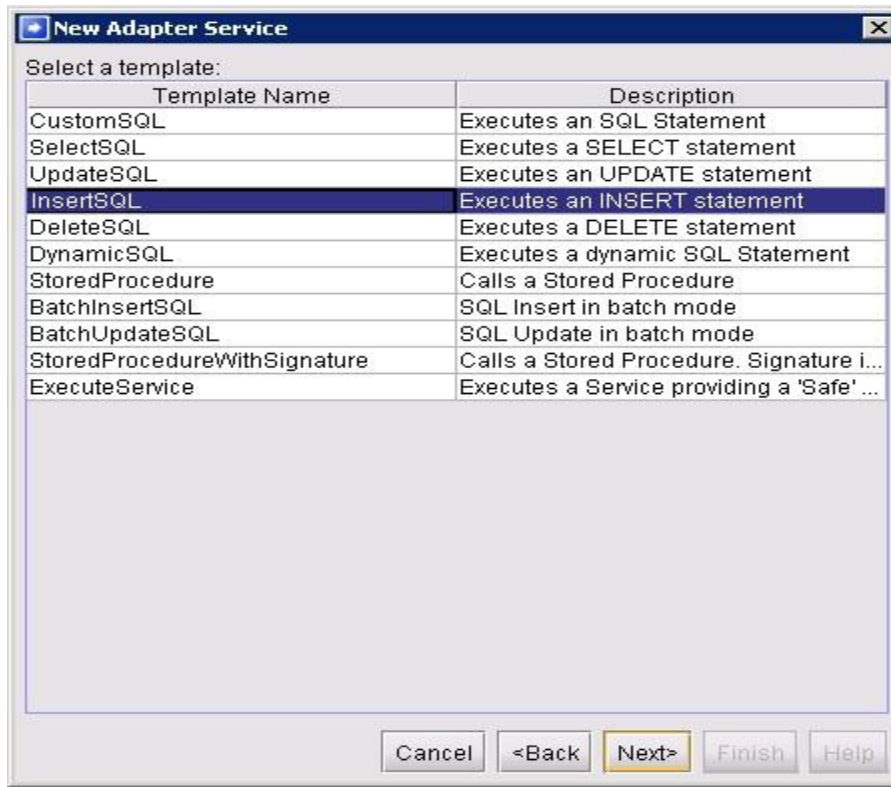2) Select **Adapter Service** from the list of elements and click **Next**.
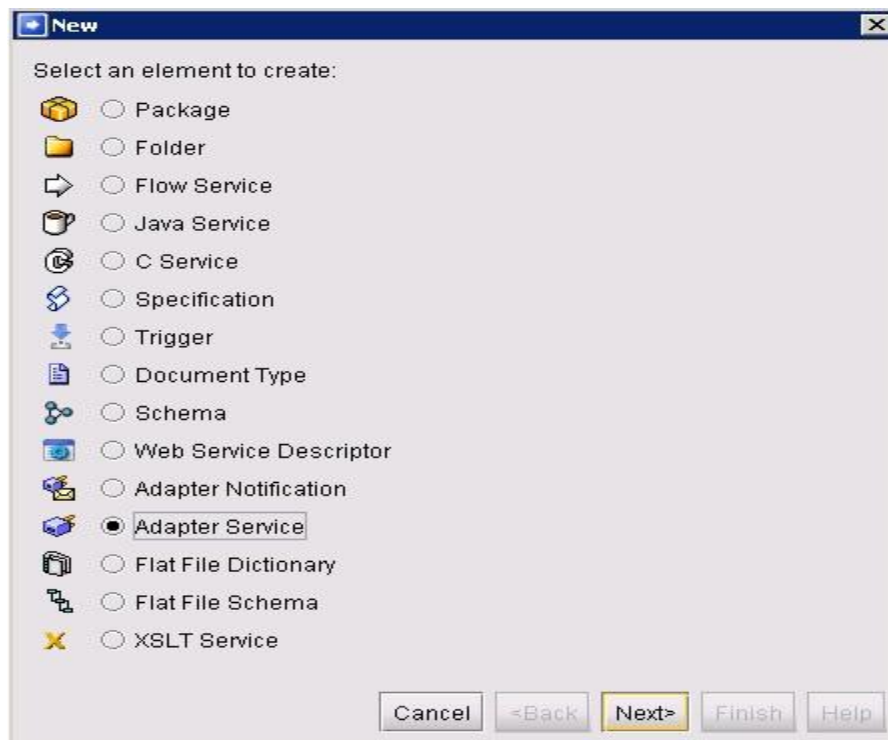


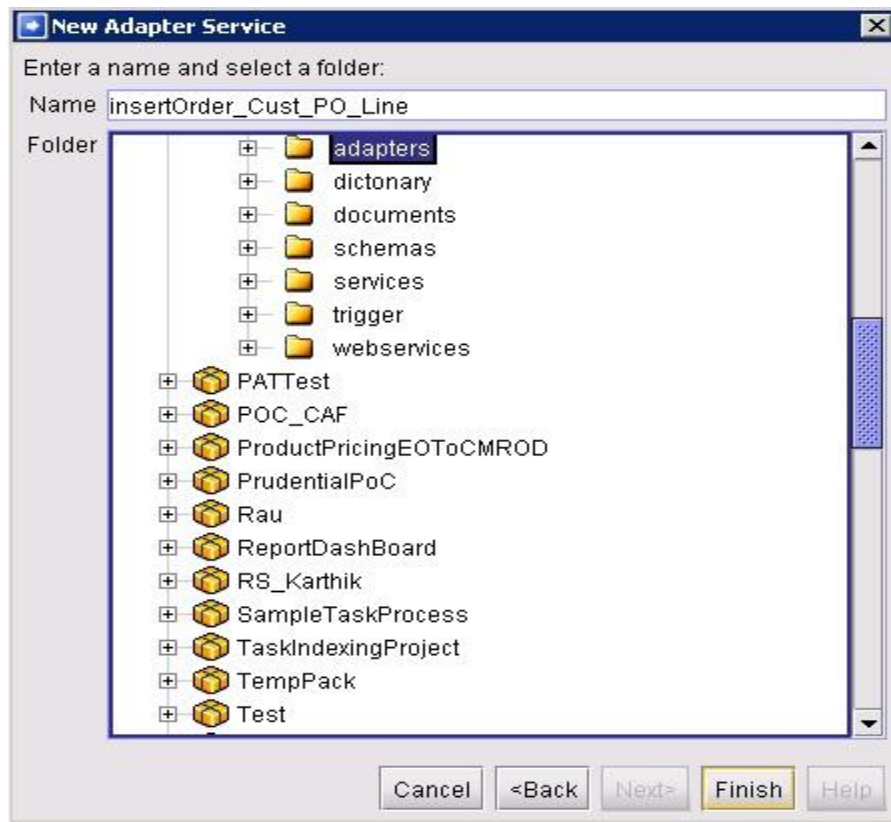3) Select **JDBC Adapter** as the adapter type and click **Next**.

4) Select the appropriate **Adapter Connection Name** and click **Next**.

5) Select the **InsertSQL** template and click **Next**.



6) Type a unique name for the service and select the appropriate folder. Click **Finish**.

The adapter service editor for the adapter service appears. You can select the **Adapter Settings** tab at any time to confirm adapter service properties such as the **Adapter Name**, **Adapter Connection Name**, and **Adapter Service Template**, as necessary.
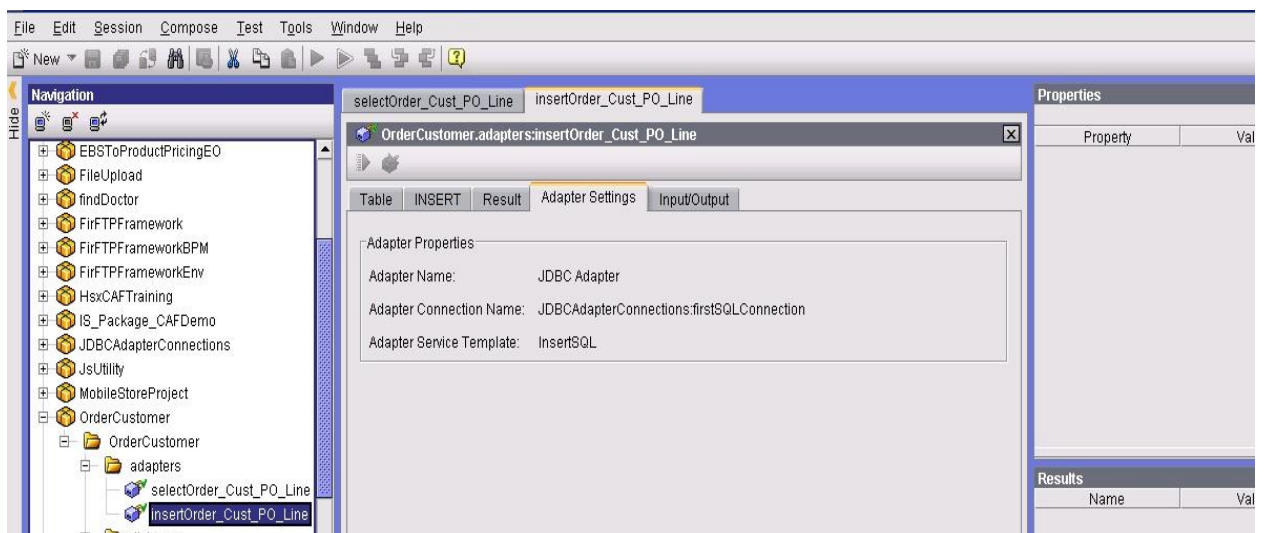
7) Select the **Table** tab to configure the database table to be updated.
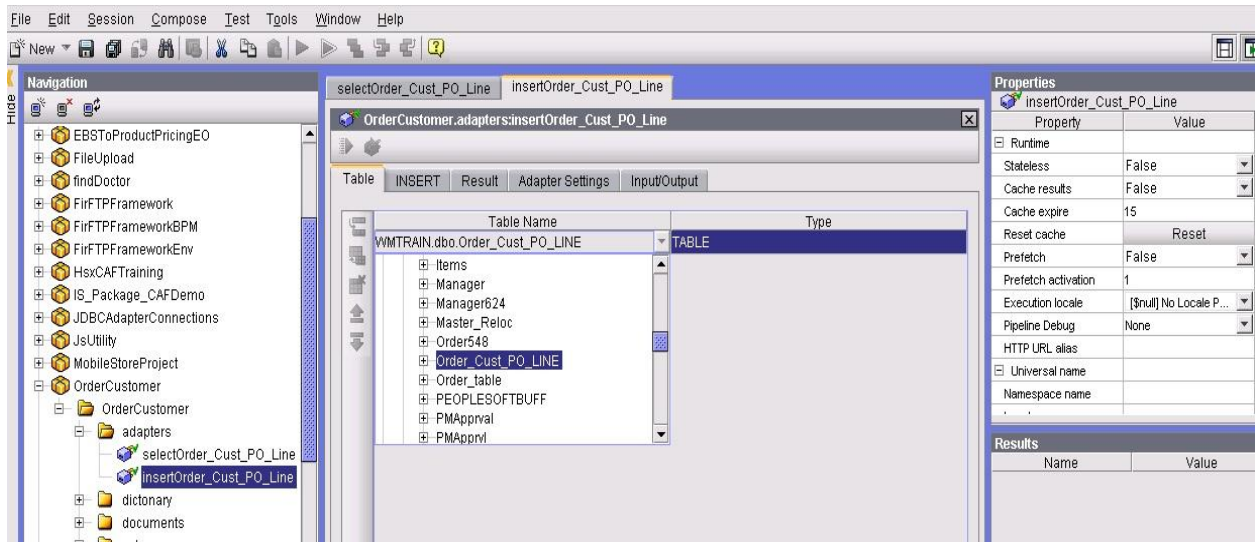
8) Select the **INSERT** tab and use the **Column**, **Column Type, JDBC Type** and **Expression** fields on the top row of the tab to define the columns and fields to be inserted.

9) Use the **Result** tab's **Result Field** and **Result Field Type** to specify the output field name and corresponding field types for the resulting number of rows that have been inserted.
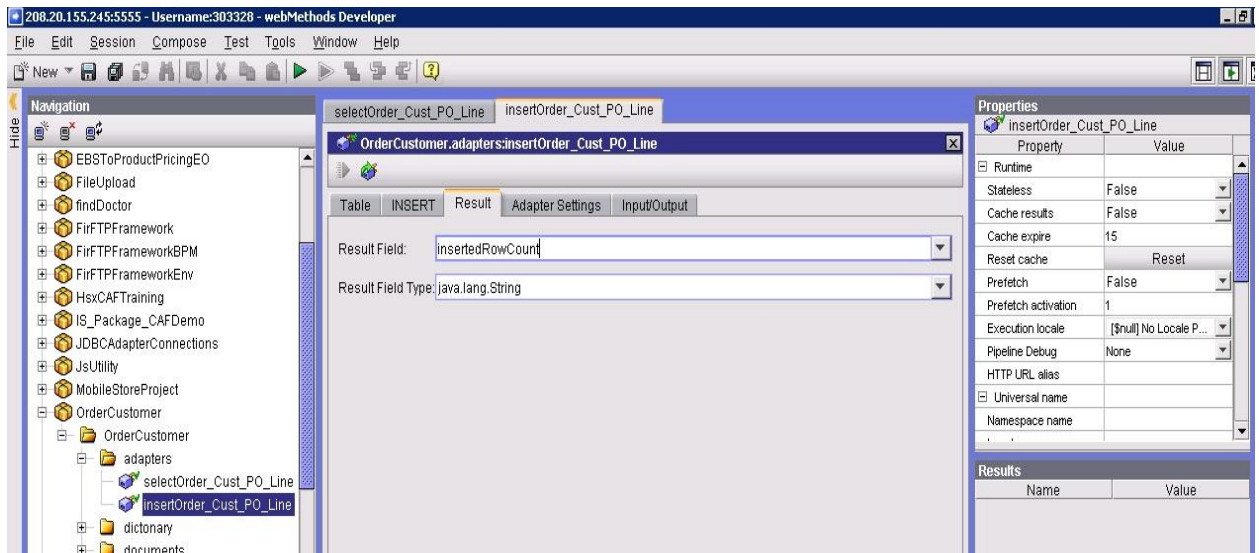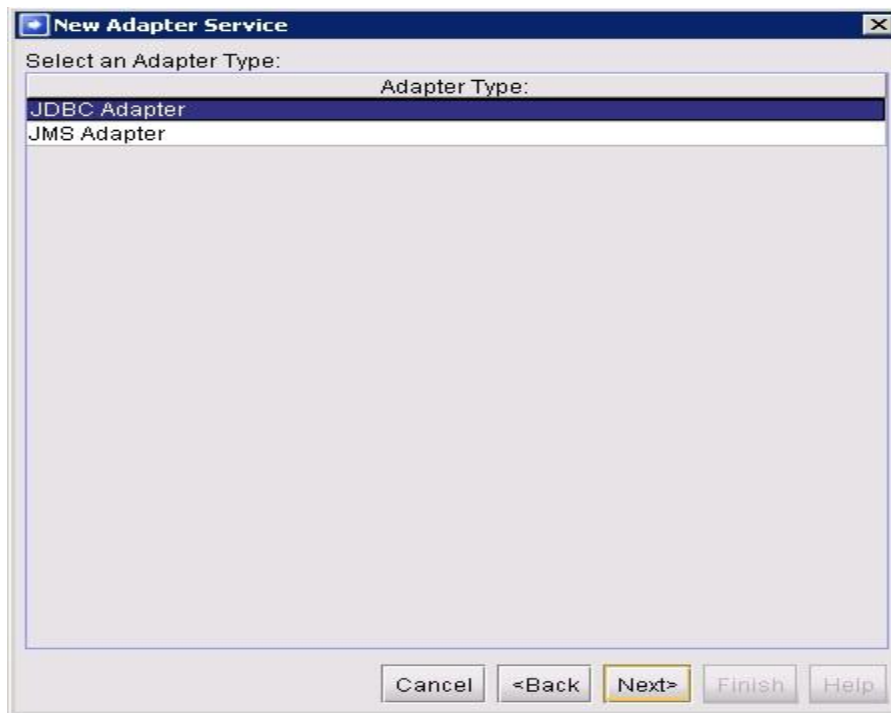
## Update ADAPTER CREATION
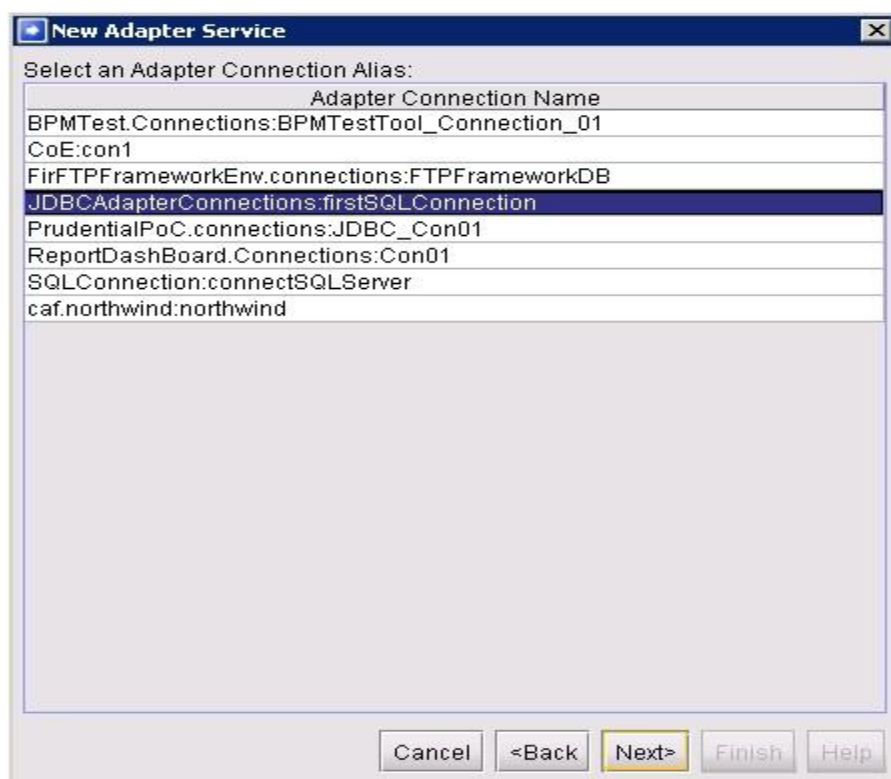
### Steps to create UPDATE Adapter Service:

1) Right click on adapter folder select **New** -> **All Choices**. Developer opens the **New** wizard.

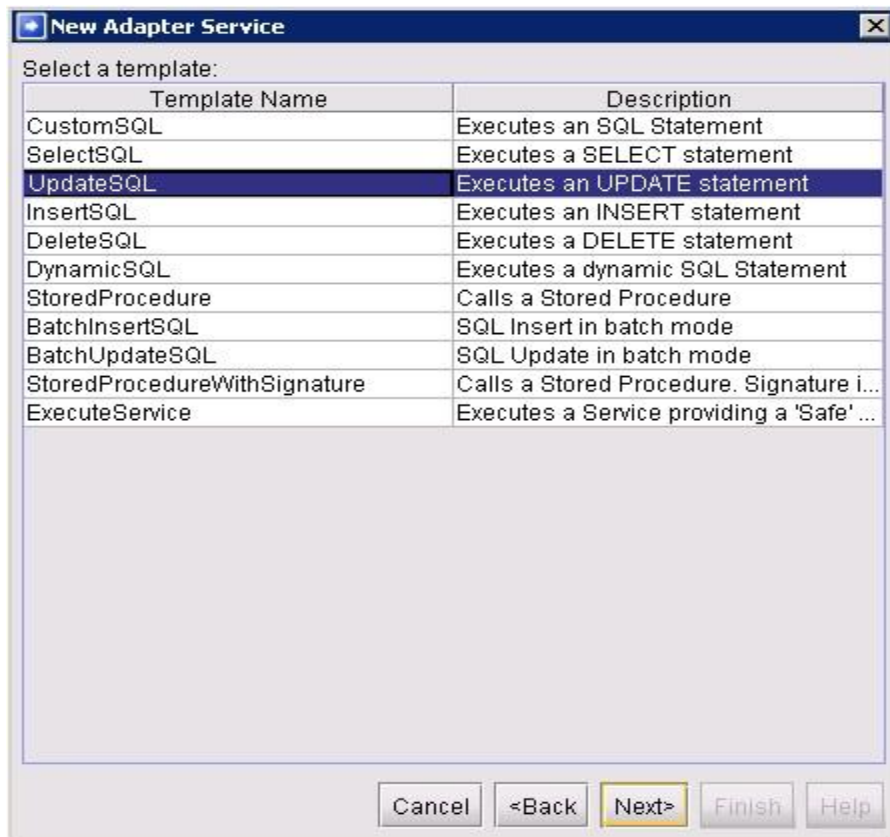2) Select **Adapter Service** from the list of elements and click **Next**.



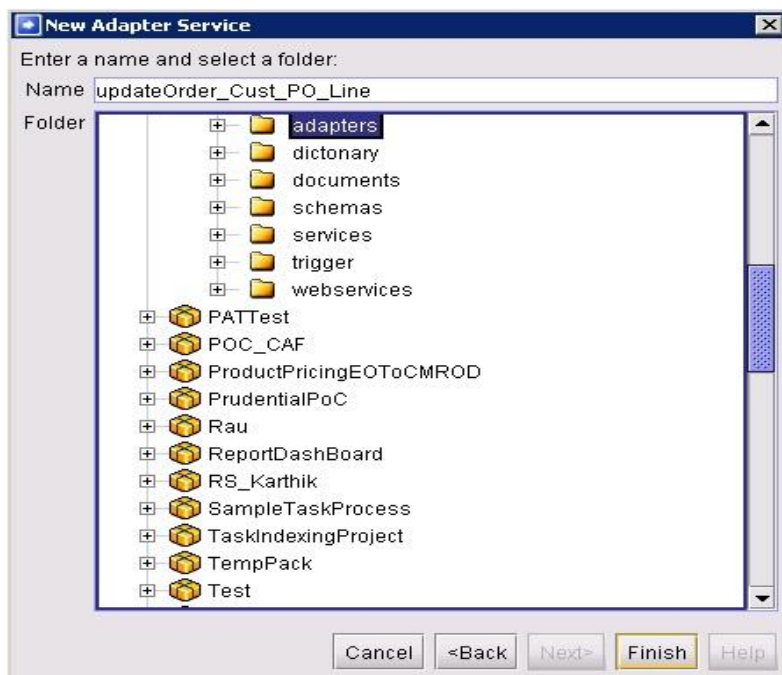3) Select **JDBC Adapter** as the adapter type and click **Next**.

4) Select the appropriate **Adapter Connection Name** and click **Next**.



5) Select the **UpdateSQL** template and click **Next**.

6) Type a unique name for the service and select the appropriate folder. Click **Finish**.

The adapter service editor for the adapter service appears. You can select the **Adapter Settings** tab at any time to confirm adapter service properties such as the **Adapter Name**, **Adapter Connection Name**, and **Adapter Service Template**, as necessary.
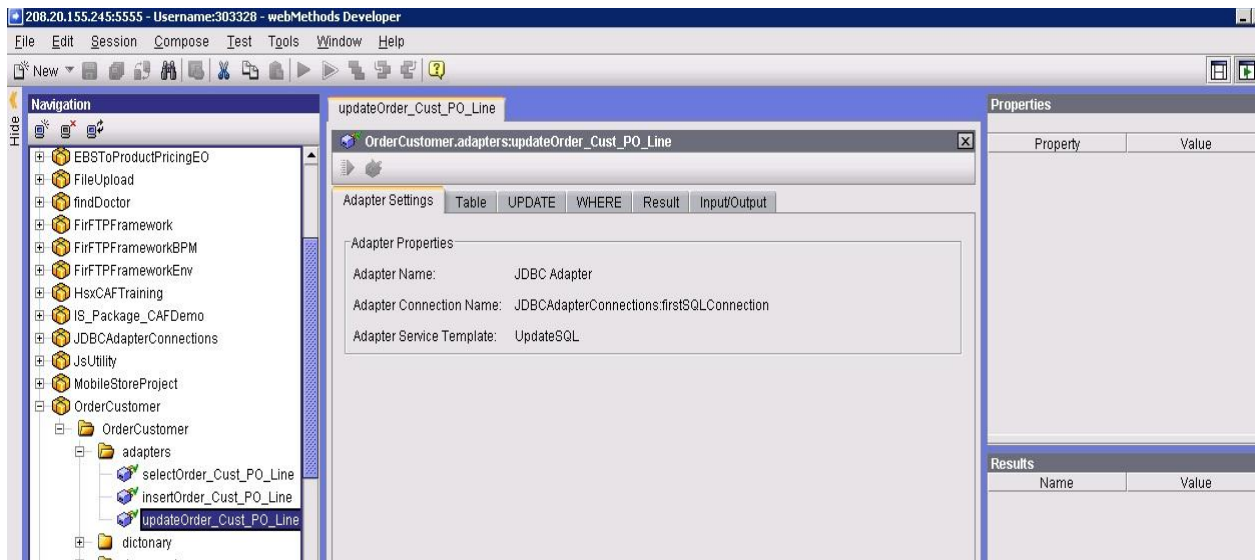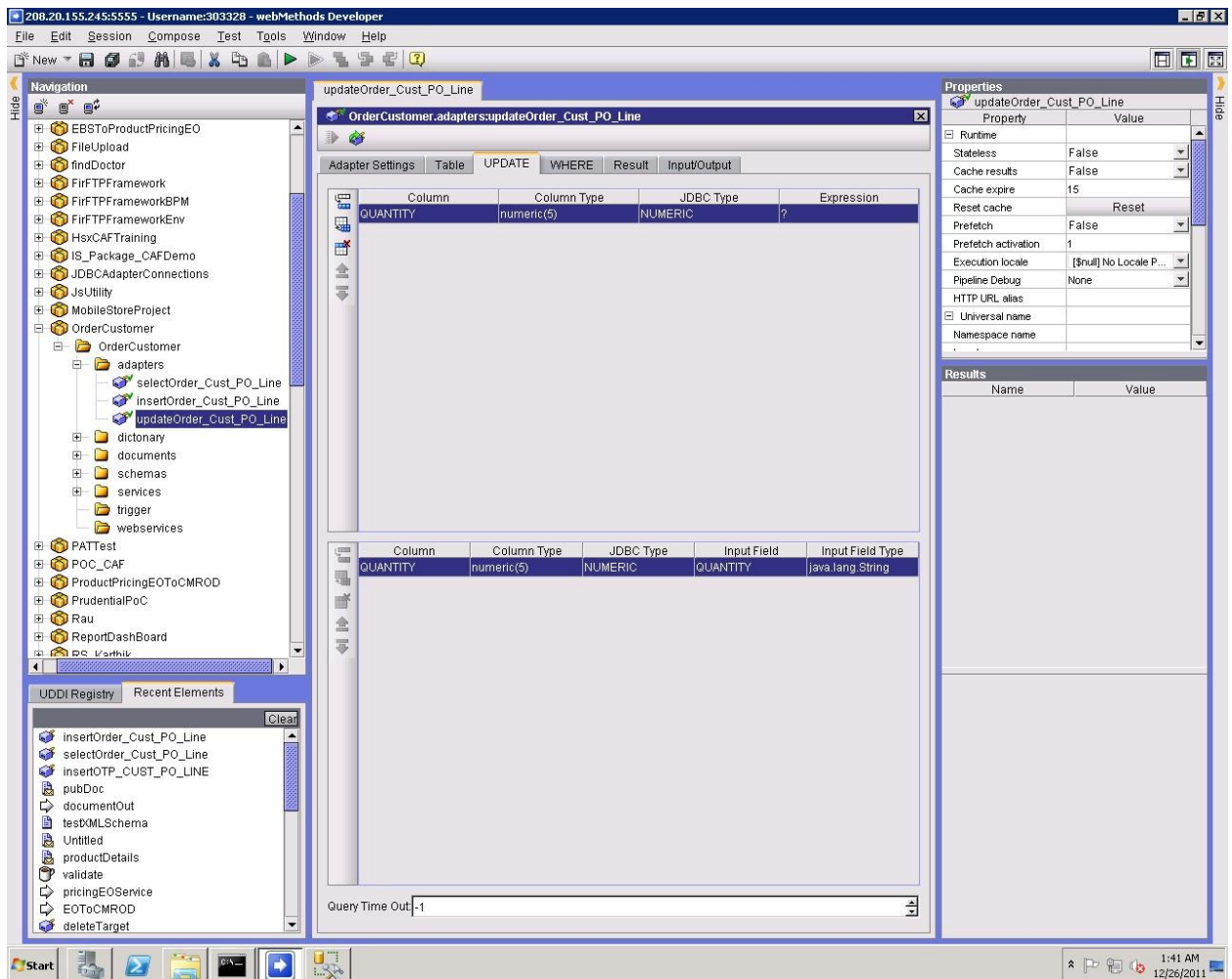


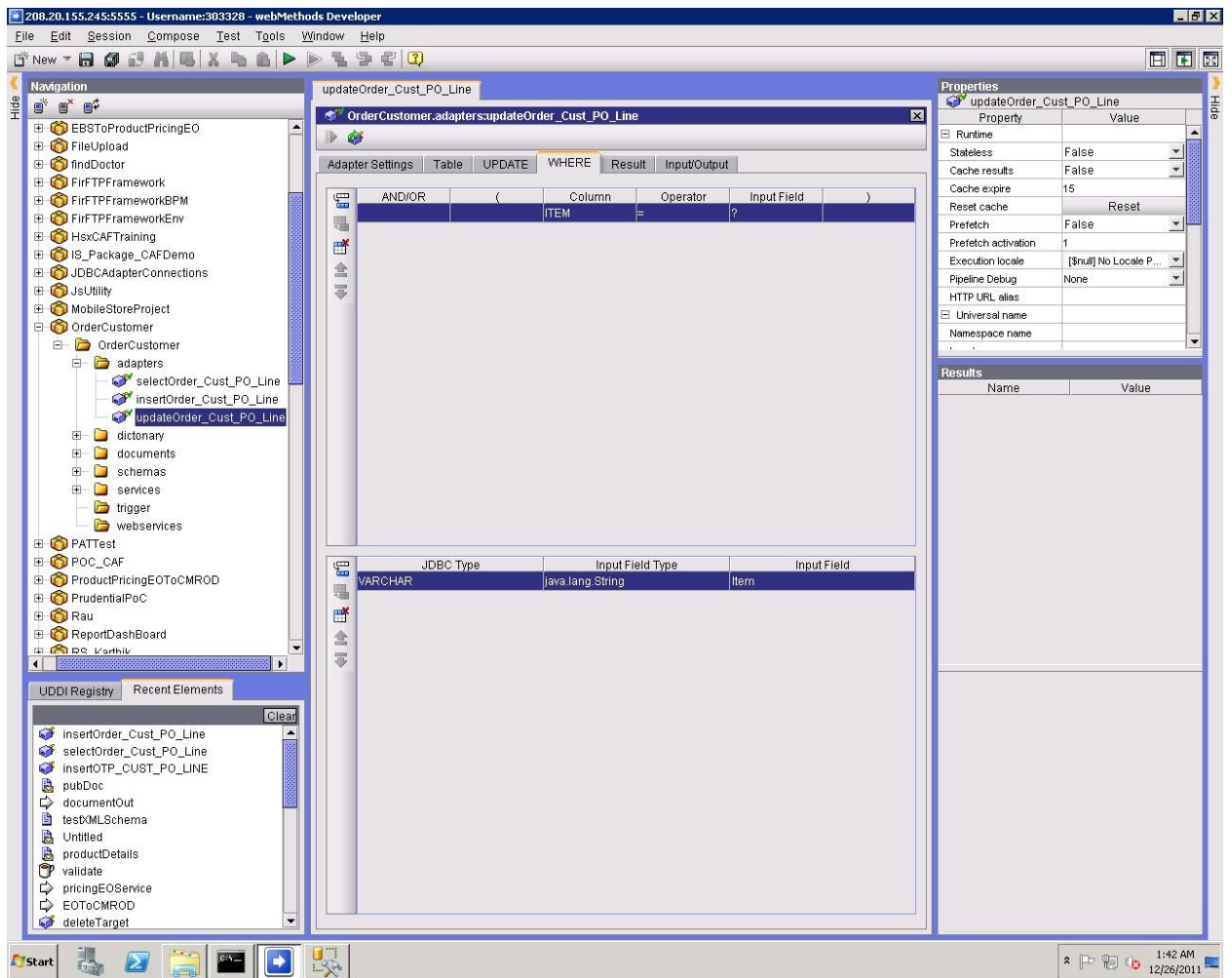7) Select the **Table** tab to configure the database table to be updated.
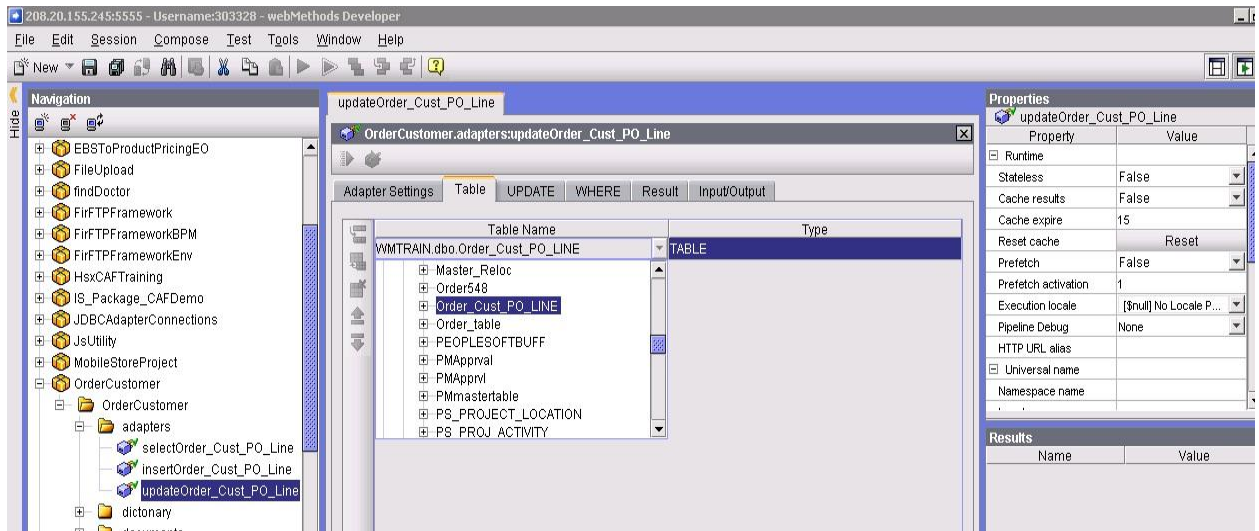
8) Select the **UPDATE** tab and use the **Column**, **Column Type, JDBC Type** and **Expression** fields on the top row of the tab to define the columns and fields.
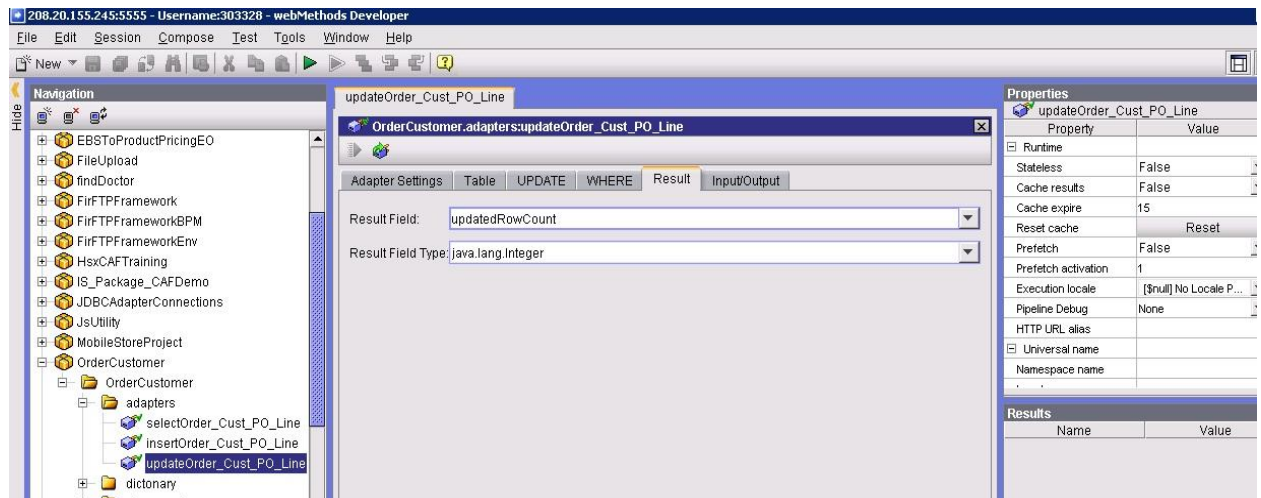
9) Use the **WHERE** tab to specify the conditions for selecting information.

10) Use the **Result** tab's **Result Field** and **Result Field Type** to specify the output field name and corresponding field types for the resulting number of rows that have been updated.
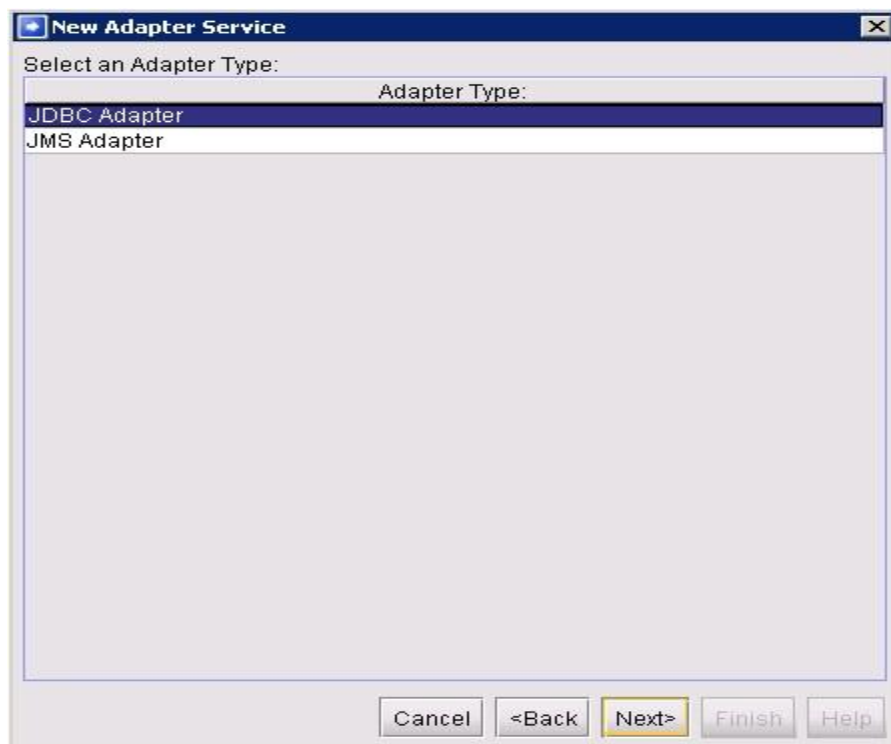


# SELECT ADAPTER CREATION

## Steps to create SELECT Adapter Service:

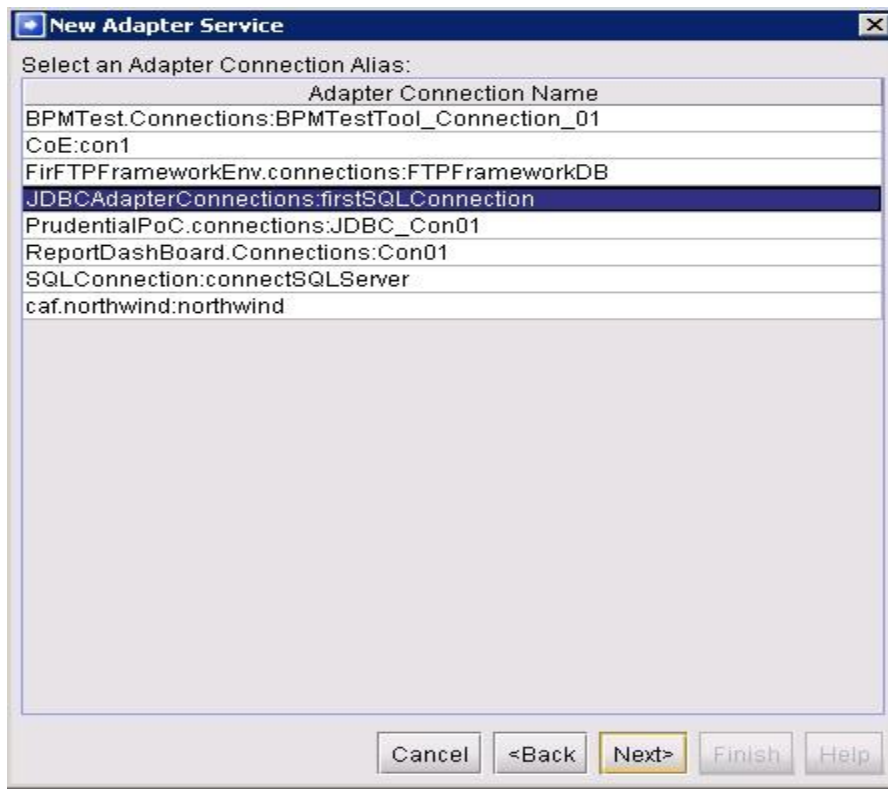1) Right click on adapter folder select **New** -> **All Choices**. Developer opens the **New** wizard.

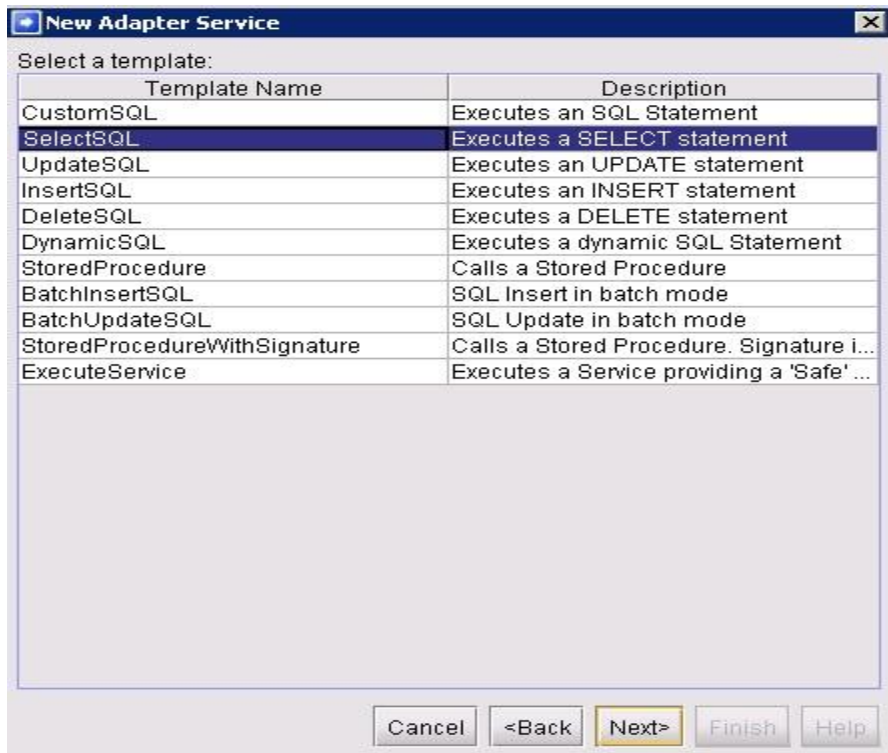2) Select **Adapter Service** from the list of elements and click **Next**.
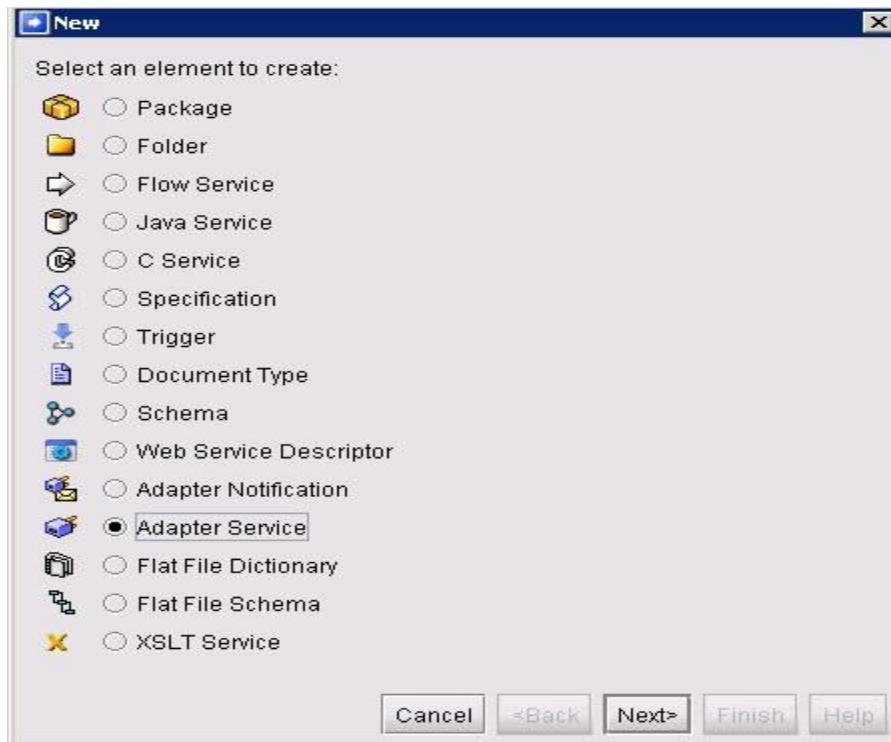
3) Select **JDBC Adapter** as the adapter type and click **Next**.
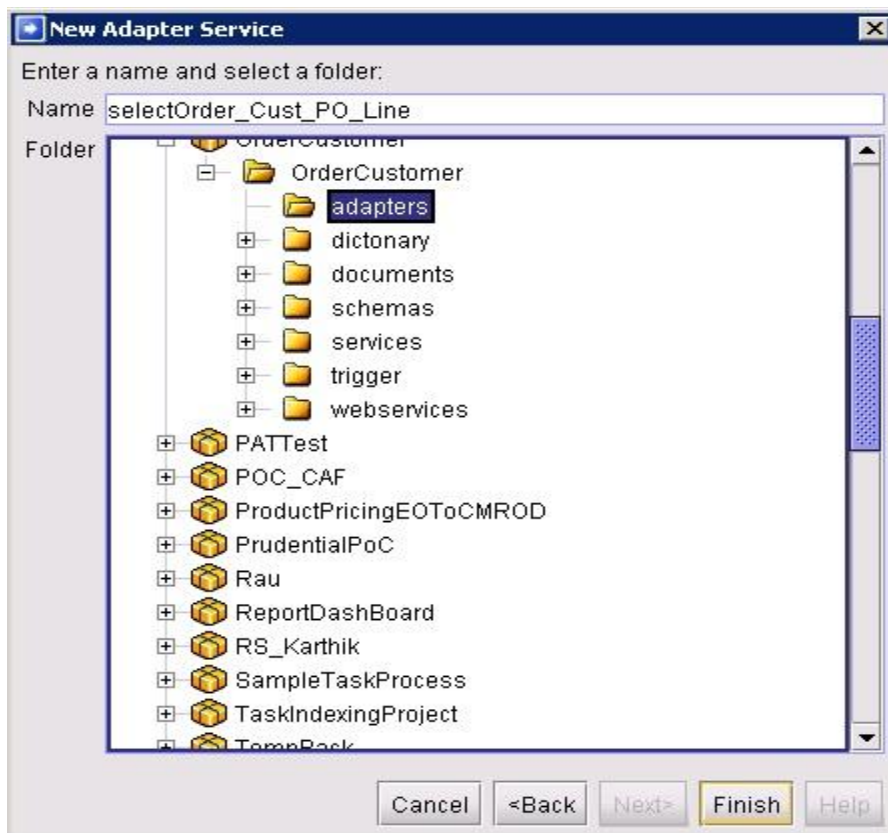
4) Select the appropriate **Adapter Connection Name** and click **Next**.



5) Select the **SelectSQL** template and click **Next**.

6) Type a unique name for the service and select the appropriate folder. Click **Finish**.

The adapter service editor for the adapter service appears. You can select the **Adapter Settings** tab at any time to confirm adapter service properties such as the **Adapter Name**, **Adapter Connection Name**, and **Adapter Service Template**, as necessary.
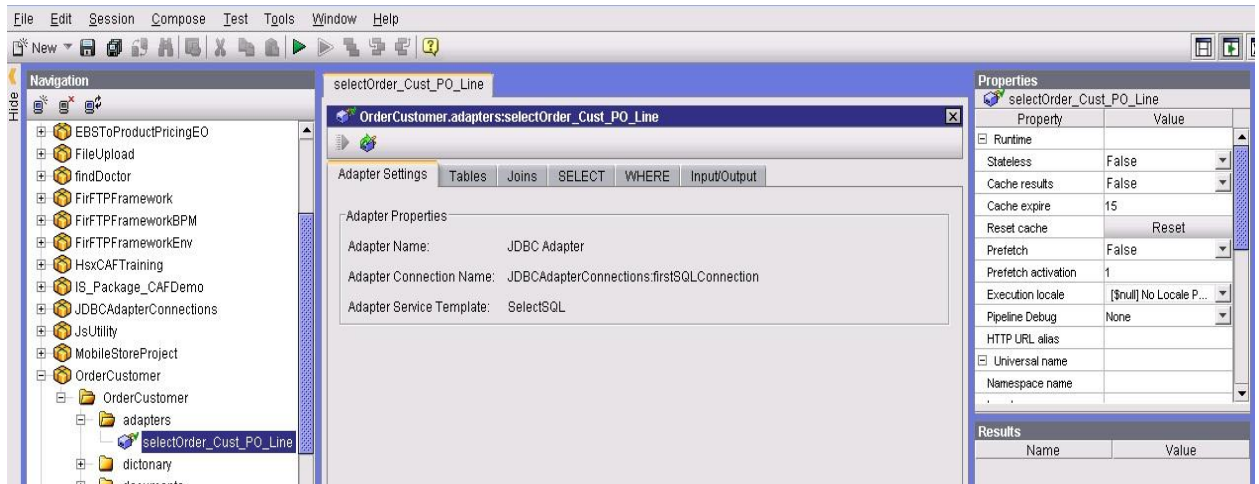


7) Select the **Tables** tab to configure the database table (or tables).
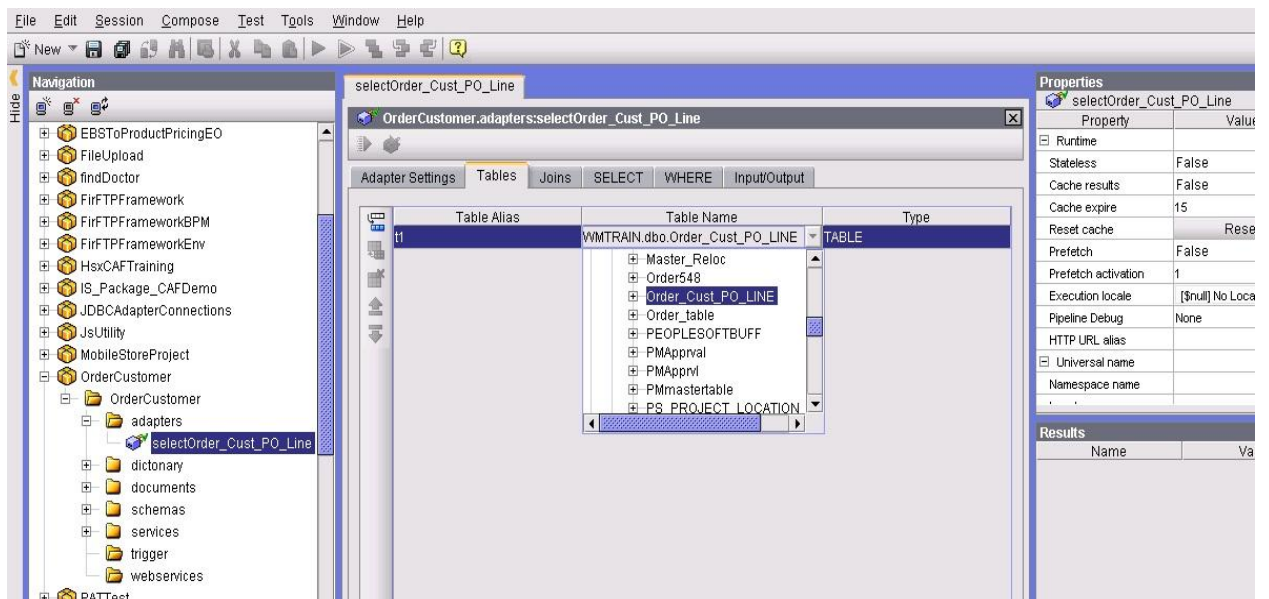
8) Use the **SELECT** tab to define the columns and fields to be selected. Under this tab use **Maximum Row**, **Query Time Out**, **Result Field** and **Result Field Type** to control output and for the resulting number of rows that have been selected.
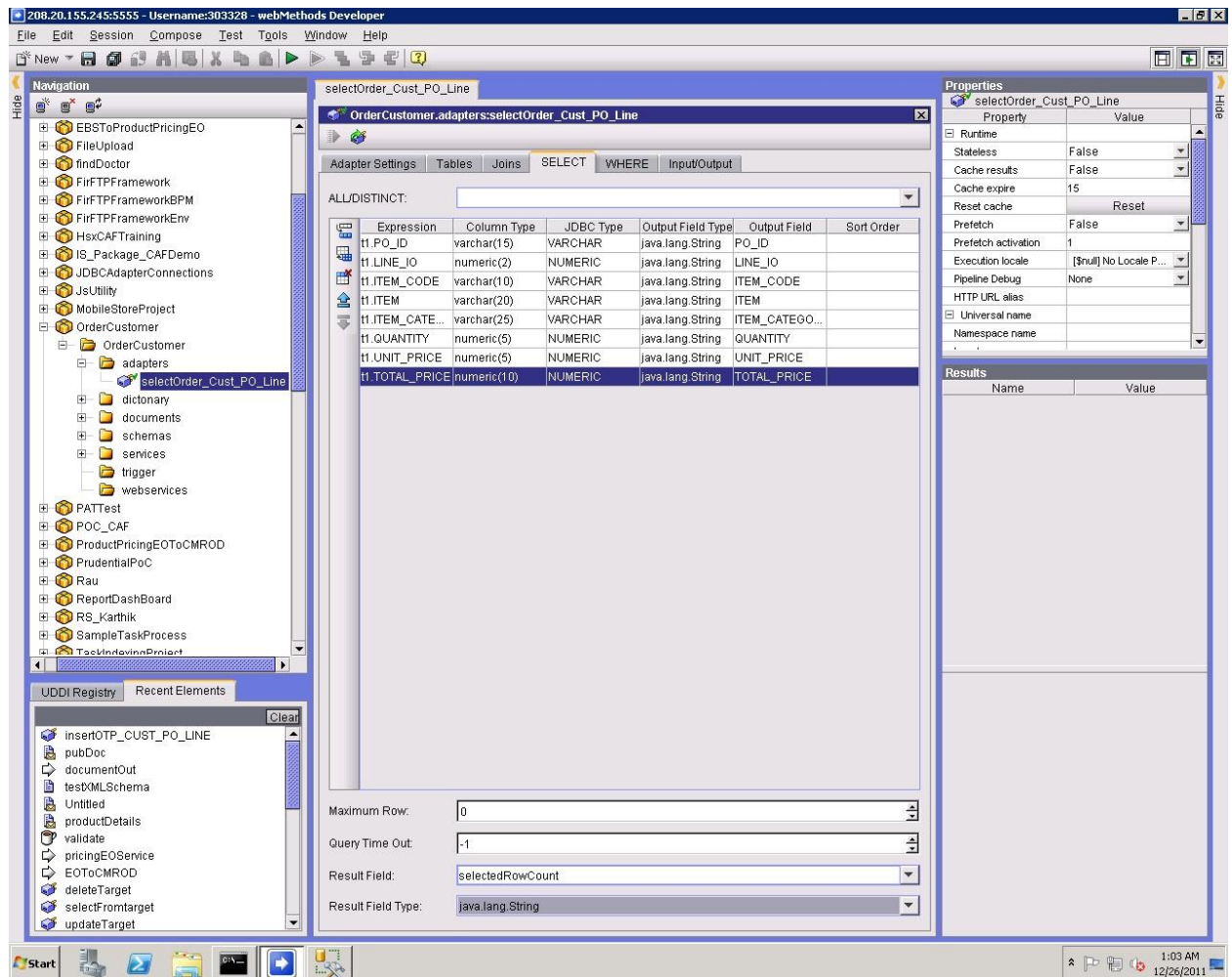
## Adapter Notification

Simulate the following actions for Adapter Notifications

- Create an adapter notification for the table employees.

- Check the buffer table & publishable documents which got automatically created.

- Write a handler service for the notifier with publishable document as input.

- Create a trigger using the publishable document and the handler service

- Schedule the notification and enable it.