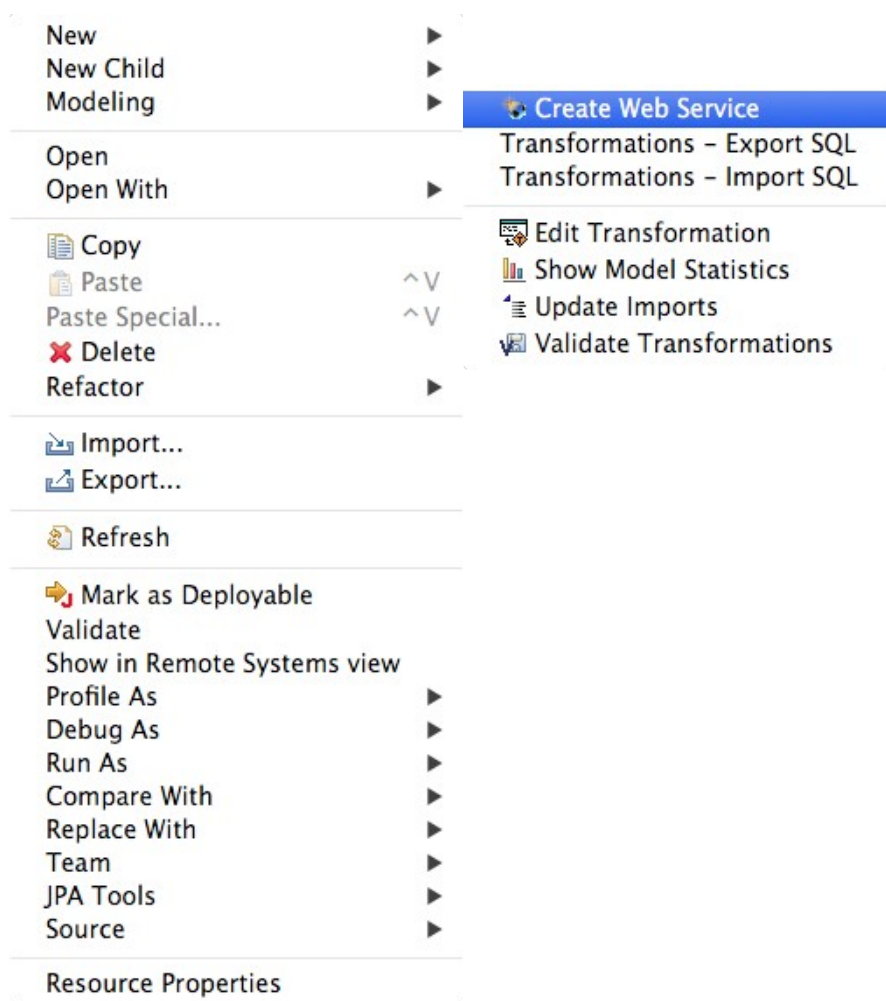


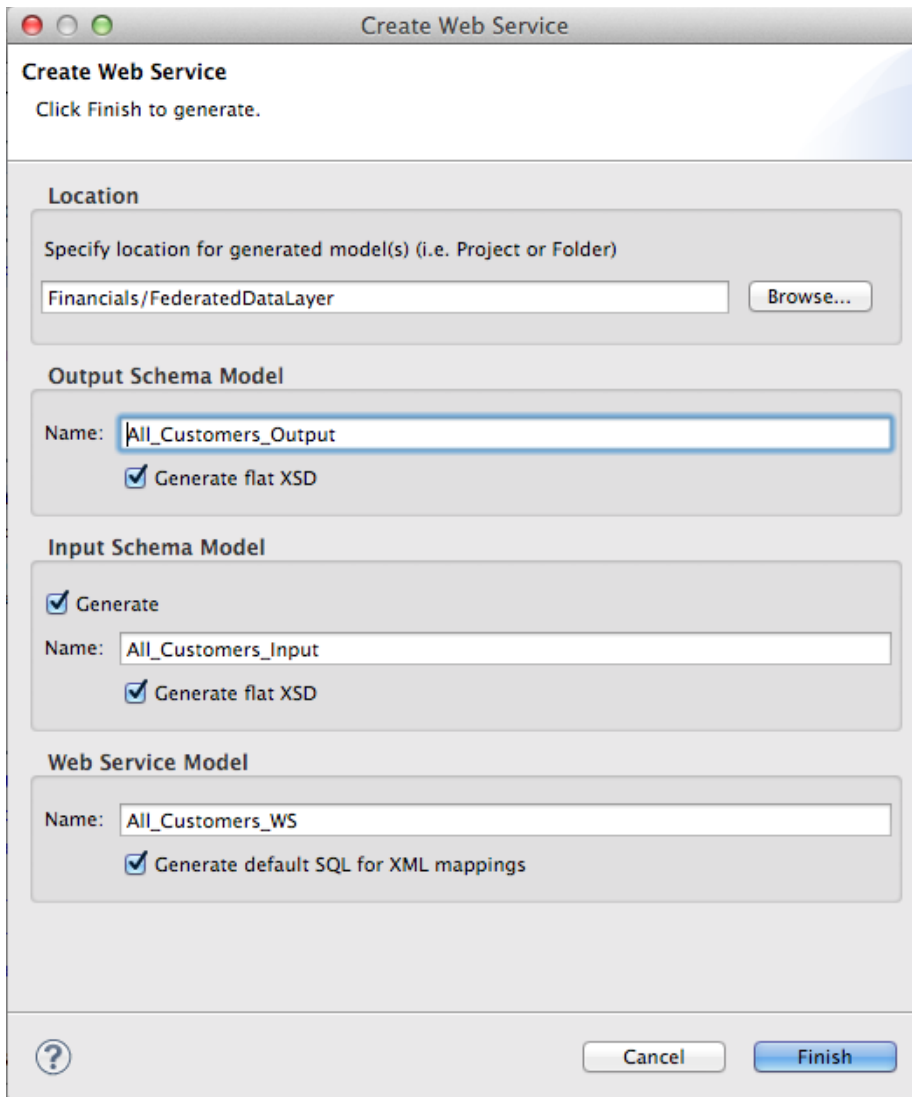
Lab 7. Create a Web Service

In this lab, you will be utilizing the Teiid Designer and JBDS to create a Web Service. It should be noted that this lab is not a guide on Web Services or how or when to use them. Rather, this is an instructional approach for some of the advanced capabilities of Teiid Designer.

To begin, right-click on the All_Customers.xmi model in the FederatedDataLayer folder. This is indicated in the illustration below.



Choose Modeling → Create Web Service. This will bring up the following wizard.



The "Create Web Service" wizard dialog box is shown. It has a title bar with standard window controls and the text "Create Web Service". Below the title bar, it says "Click Finish to generate." The dialog is divided into four sections: "Location", "Output Schema Model", "Input Schema Model", and "Web Service Model". In the "Location" section, the text "Specify location for generated model(s) (i.e. Project or Folder)" is above a text field containing "Financials/FederatedDataLayer" and a "Browse..." button. The "Output Schema Model" section has a "Name:" label, a text field with "All_Customers_Output", and a checked checkbox for "Generate flat XSD". The "Input Schema Model" section has a checked checkbox for "Generate", a "Name:" label, a text field with "All_Customers_Input", and a checked checkbox for "Generate flat XSD". The "Web Service Model" section has a "Name:" label, a text field with "All_Customers_WS", and a checked checkbox for "Generate default SQL for XML mappings". At the bottom, there is a question mark icon, a "Cancel" button, and a "Finish" button.

Create Web Service
Click Finish to generate.

Location
Specify location for generated model(s) (i.e. Project or Folder)
Financials/FederatedDataLayer

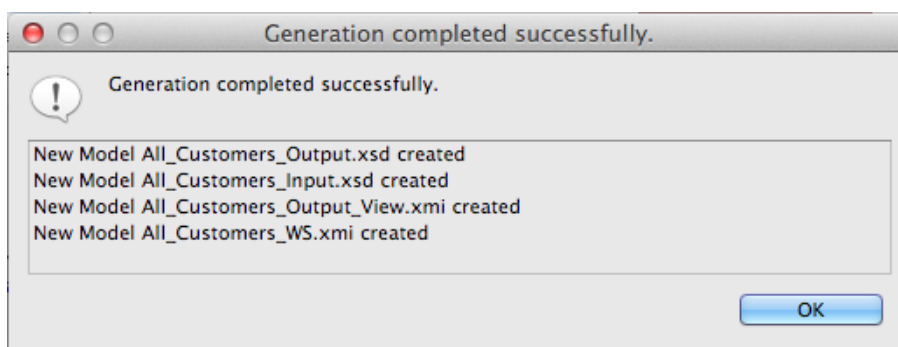
Output Schema Model
Name: All_Customers_Output
☒ Generate flat XSD

Input Schema Model
☒ Generate
Name: All_Customers_Input
☒ Generate flat XSD

Web Service Model
Name: All_Customers_WS
☒ Generate default SQL for XML mappings

? Cancel Finish

In order to keep things organized, be sure to select “Browse” and select the WebServices folder we created in an earlier lab. This will drop all web service artifacts within this folder. Then, click “Finish”. If the generation was successful, the following result will occur.



The "Generation completed successfully" dialog box is shown. It has a title bar with standard window controls and the text "Generation completed successfully.". Below the title bar, there is a list box containing four items: "New Model All_Customers_Output.xsd created", "New Model All_Customers_Input.xsd created", "New Model All_Customers_Output_View.xmi created", and "New Model All_Customers_WS.xmi created". At the bottom right, there is an "OK" button.

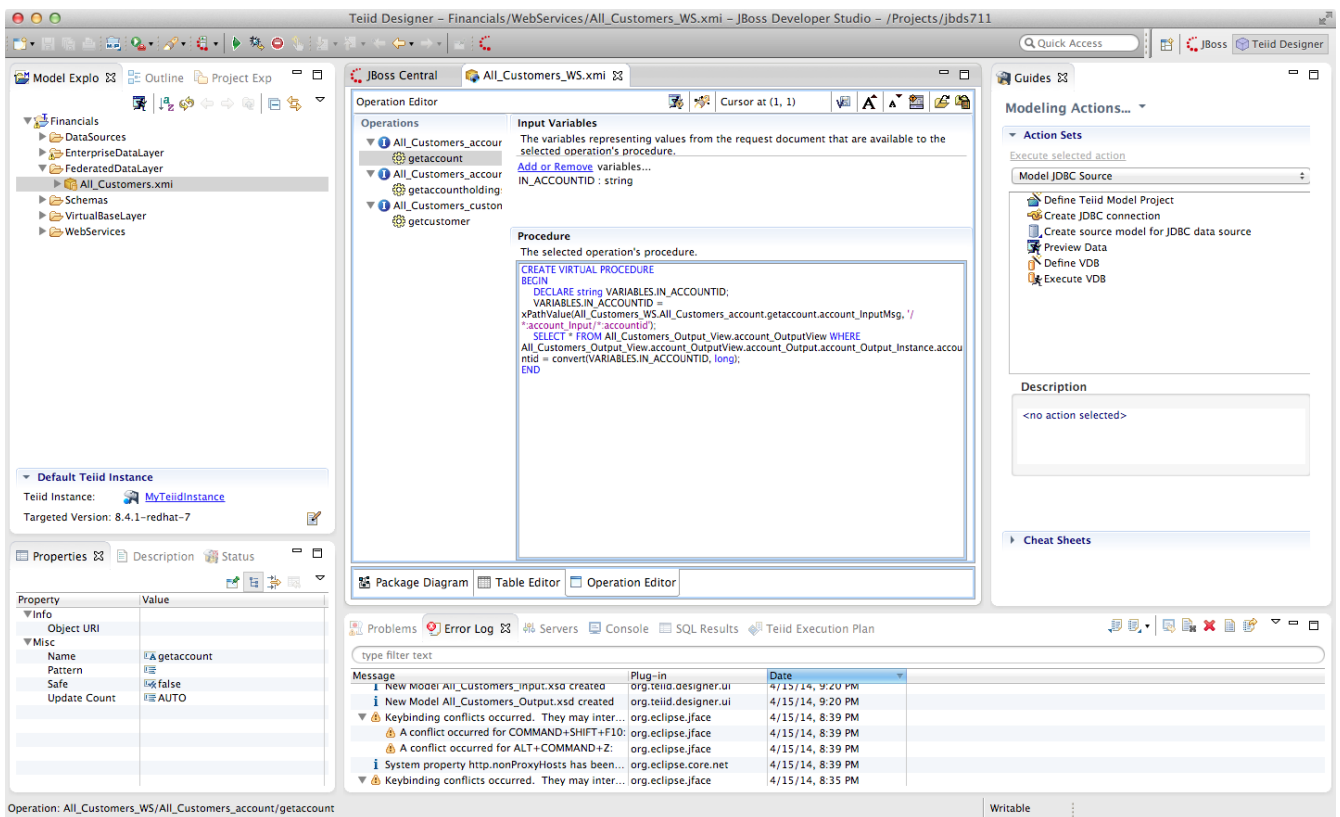
Generation completed successfully.

! Generation completed successfully.

New Model All_Customers_Output.xsd created
New Model All_Customers_Input.xsd created
New Model All_Customers_Output_View.xmi created
New Model All_Customers_WS.xmi created

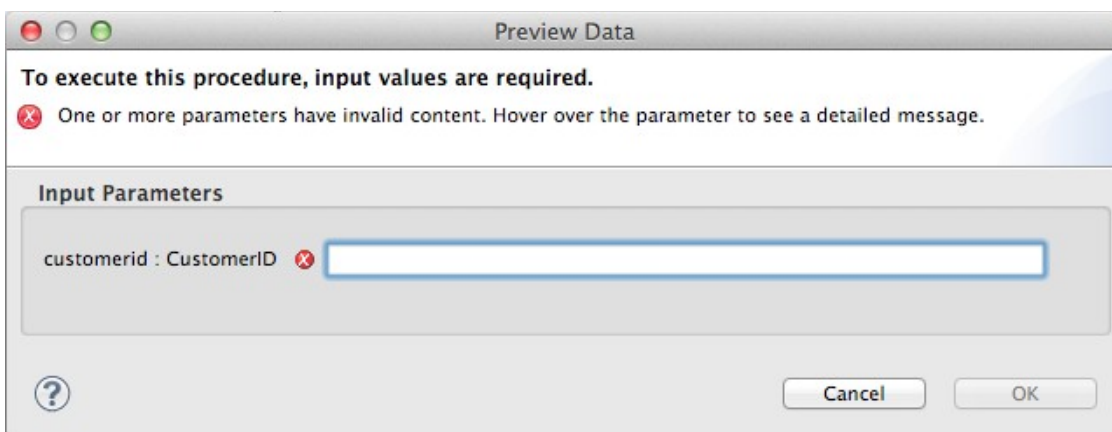
OK

The generated Web Service will open after clicking “OK”. Your Teiid Designer view should resemble that below.



If not selected, be sure to click on the “getcustomer” operation as indicated below.

With the getcustomer operation highlighted, click the “Running man icon with a diamond T”. This icon is located across the top of the All_Customers_WS.xmi view and to the right of the Operation Editor. Click this icon to bring up the following window.



When initially opened, the customerid : CustomerID field will be blank. Enter in the value CST01033. Then, click OK.

Upon inspection of the Result1 tab reveals the XML output of the Web Service invocation as indicated below.

```
<?xml version="1.0" encoding="UTF-8"?>
<account_Output:customer_Output
  xmlns:account_Output="http://www.metamatrix.com/account_Output"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <customer_Output_Instance>
    <customerid>CST01033</customerid>
    <firstname>Alexander</firstname>
    <lastname>Franken</lastname>
    <middlename>Horst</middlename>
    <streetaddress>Berliner Platz 85</streetaddress>
    <streetaddress2 xsi:nil="true"/>
    <city>Munich</city>
    <stateprovince xsi:nil="true"/>
    <postalcode>80806</postalcode>
    <country>Germany</country>
    <phonenumber>0890877435</phonenumber>
  </customer_Output_Instance>
</account_Output:customer_Output>
```

Congratulations, you have completed Lab #7.