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# Exchanger XML Editor - Data Import

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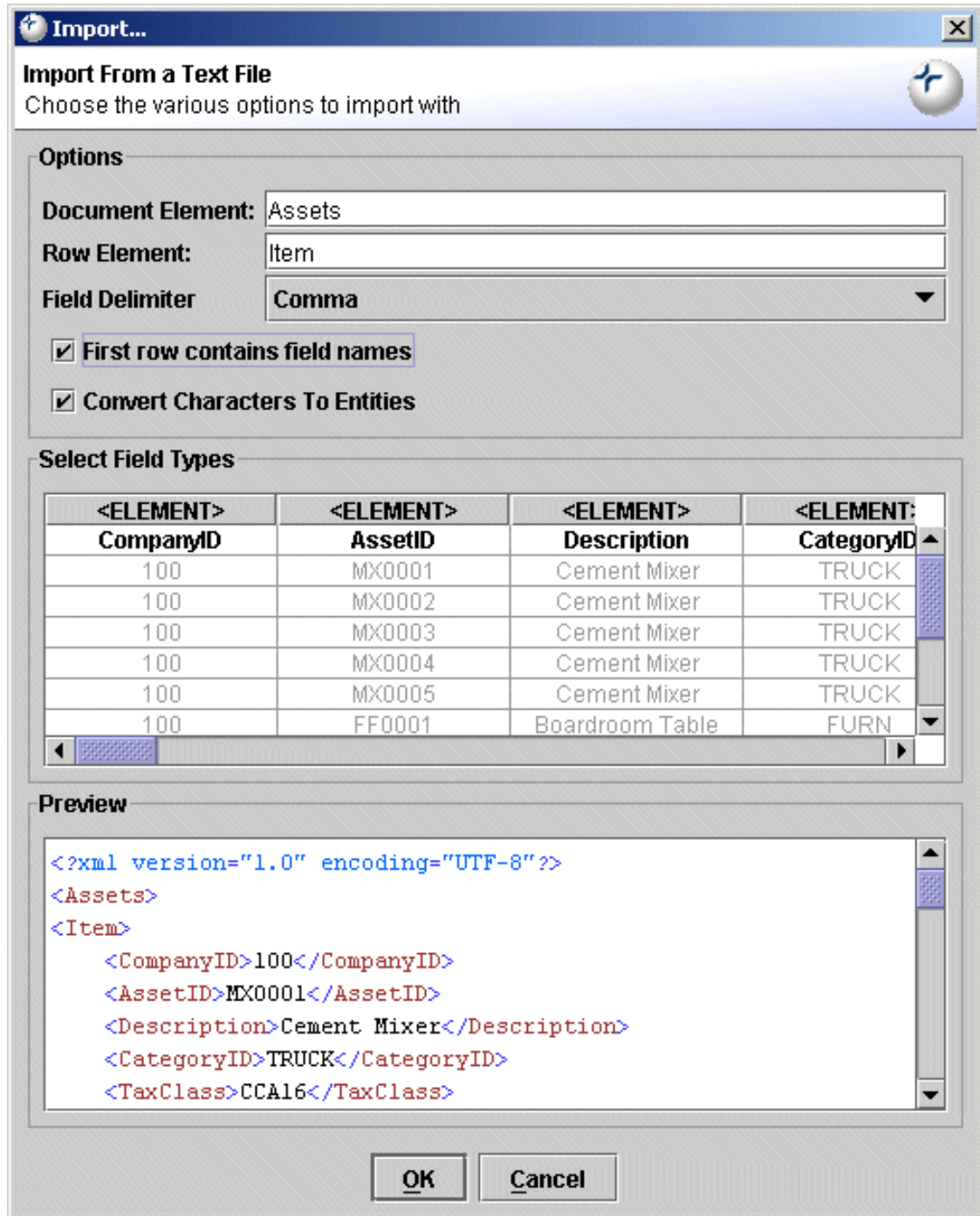
Exchanger XML Editor - Data Import

## Data Import

Exchanger XML provides a number of ways to import from various external data sources including structured text files, Excel spreadsheets and database tables.

### Import From Text File

Select **File->Import->From Text File ...** and set the Location URL to `projects/Import Text/input/assets.txt` In the Options section of the **Import...** dialog, set the **Document Element** to be **Assets** and the **Row Element** to **Item**. The Field Delimiter defaults to Comma, but can be set explicitly in the drop down if required. If the data contains characters such as `<` or `&`, then ensure that these special characters are escaped with entities by checking the appropriate tick box. The input data is displayed in the Dialog in tabular form above a Preview containing an example of what the generated XML will look like.



**Figure 1. Import From Text File**

The first row of this particular input file contains field names and these will be used as tokens in the created XML file. However, the field names (along with all other values) can be edited directly in the tabular preview by double-clicking on the desired item and entering the required value.

By default, all data items in the input will be converted to element content, but this can be over-riden

by clicking on the individual column headers. Clicking once on a column header will cause the data from this column to be used as attribute values on the row elements, rather than as separate child elements. Clicking a second time will cause the column's data to be ignored when generating the XML file. Repeatedly clicking on the column header will cycle through the 3 different options. For the **CompanyID** and **AssetID** columns, set the field type to **"ATTRIBUTE"** and for some other columns, set the type to **<!--SKIP-->** and the Preview should adjust accordingly. Now, click **OK** and the complete XML file corresponding to the input data will open in the editor.

## Import From Excel File

Select **File->Import->From Excel File...** and set the Location URL to `projects/Import Excel/input/sample.xls` In the Worksheet section of the **Import...** dialog, choose **Sheet 1** in the drop down menu, and set **Import Formulas** to **No**. Set the **Document Element** to **Contacts** and the **Row Element** to **Person**. The input data is displayed in the Dialog in tabular form above a Preview containing an example of what the generated XML will look like.

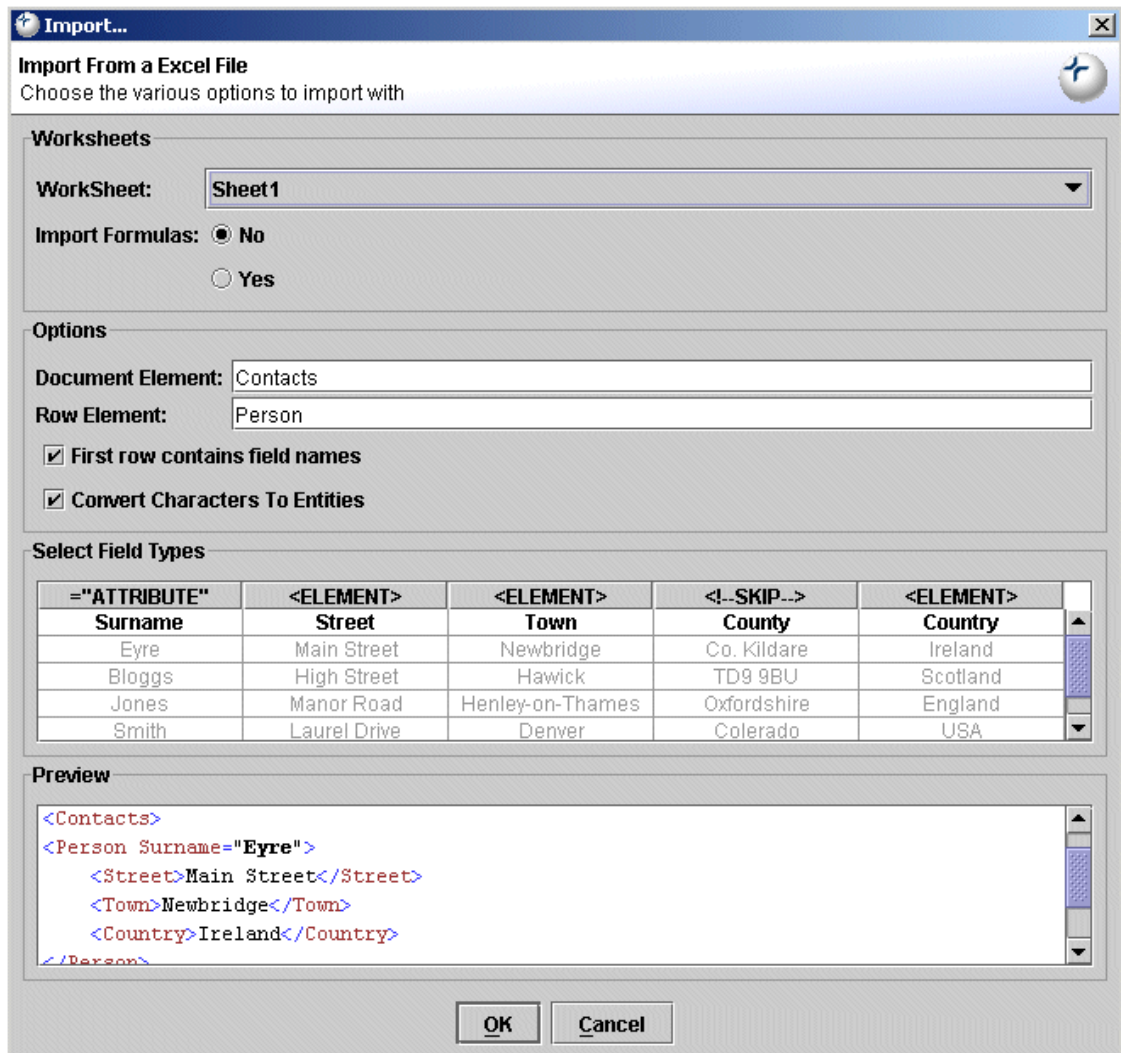


Figure 2. Import From Excel File

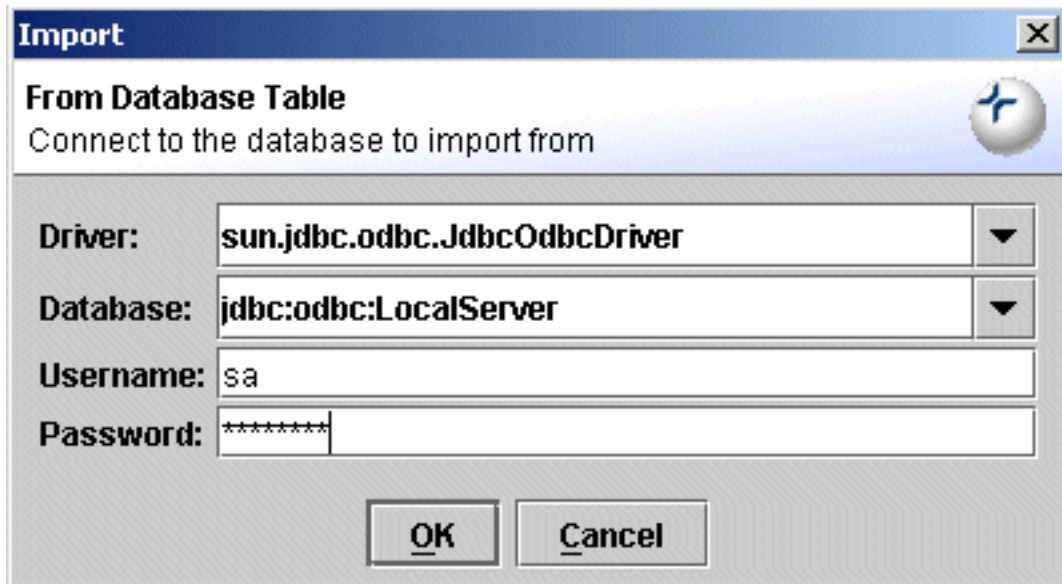
The first row of this particular input file contains field names and these will be used as tokens in the generated XML file. However, the field names (along with all other values) can be edited directly in the tabular preview by double-clicking on the desired item and entering the required value.

By default, all data items in the input will be converted to element content, but this can be over-ridden by clicking on the individual column headers. Clicking once on a column header will cause the data from this column to be used as attribute values on the row elements, rather than as separate child elements. Clicking a second time will cause the column's data to be ignored when generating the XML file. Repeatedly clicking on the column header will cycle through the 3 different options. For the **Surname** column, set the field type to ="ATTRIBUTE" and for the **County** column, set the type to <!--SKIP--> and the Preview should adjust accordingly. Now, click **OK** and the complete XML document corresponding to the input Excel spreadsheet will open in the editor.

## Import From Database Table

When importing data from database tables, the appropriate JDBC drivers must be made available to the application using the System tab in the **File->Preferences** dialog. The JDBC-ODBC bridge is automatically included by default and can be used to easily access SQL Server databases, among others. See the Preferences section of this documentation for more details on adding Jar/Zip files for other drivers to the application. Select **File->Import->From Database Table...** and enter the connection details.

Using the JDBC-ODBC bridge, the **Driver** field is `sun.jdbc.odbc.JdbcOdbcDriver` while the **Database** field will be similar to `jdbc:odbc:LocalServer`.



**Figure 3. Import From Database Using ODBC**

Using the Microsoft Type 4 Driver, the corresponding fields would be something like `com.microsoft.jdbc.sqlserver.SQLServerDriver` and `jdbc:microsoft:sqlserver://localhost:1433;DatabaseName=Northwind;`

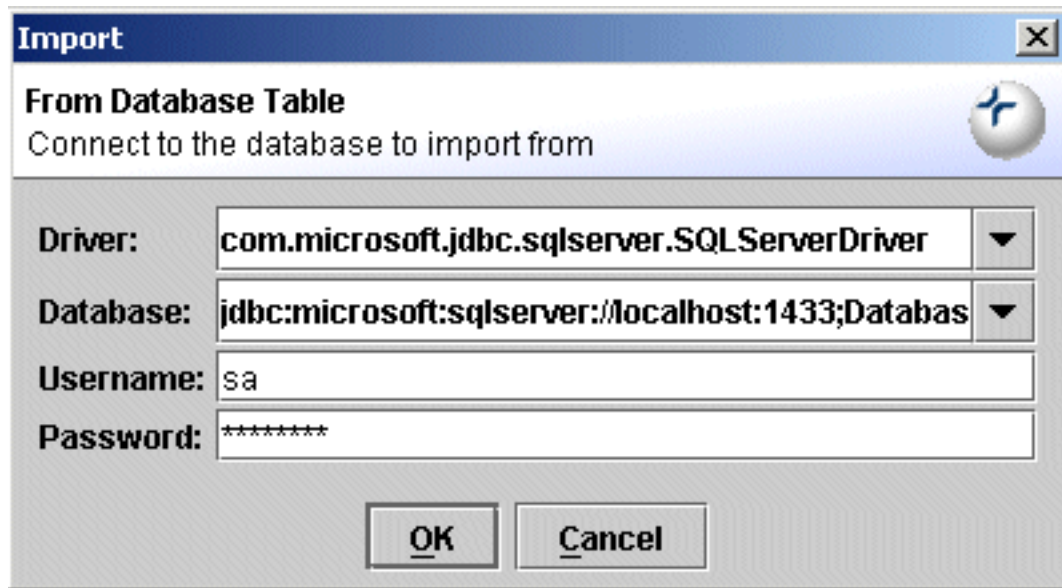


Figure 4. Import From SQL Server Database

Using the LGPL version of the MySQL driver that is bundled with Exchanger XML, the **Driver** field is `org.gjt.mm.mysql.Driver` while the **Database** field will be similar to `jdbc:mysql://localhost:3306/testdb`.

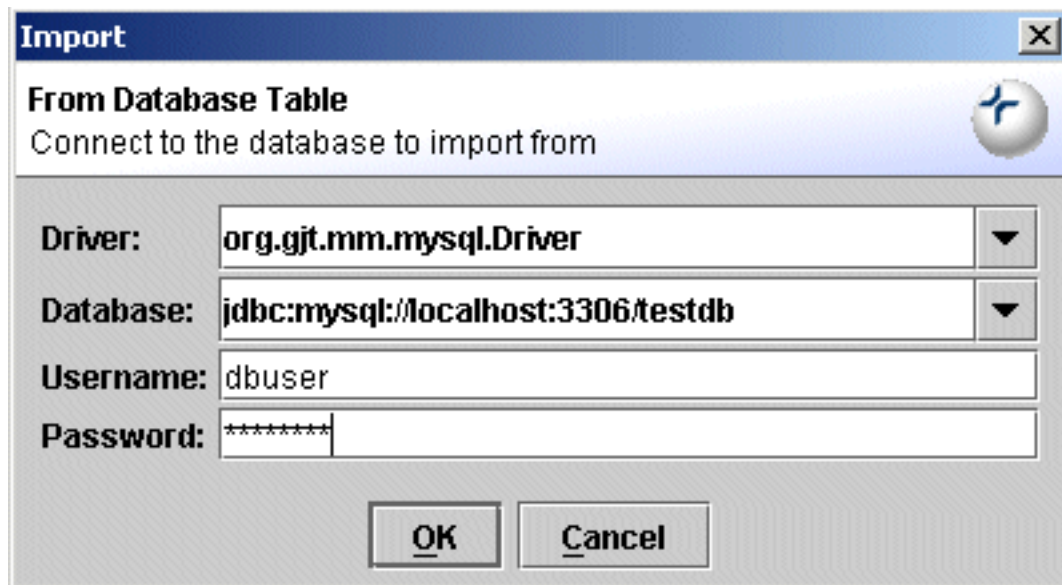


Figure 5. Import From MySQL Database

Enter the appropriate Username and Password, and click **OK**. In the Import... dialog, choose the appropriate Table and set the Document Element and Row Element as required. If the data contains characters such as `<` or `&`, then ensure that these special characters are escaped with entities by checking the appropriate tick box. (If the database contains Blobs of valid XML, then there is no need to perform

this escaping). Select the field types as described in the preceding sections and enter criteria for the **Where**, **Order By**, and **Group By** clauses at the bottom of the dialog, as necessary. Now, click **OK** and the complete XML document corresponding to the database table will open in the editor.

**Import...** X

**Import From a database table** +

Choose the various options to import with

**Tables**

Tables:  ▼

**Options**

Document Element:

Row Element:

First row contains field names

Convert Characters To Entities

**Select Field Types**

= "ATTRIBUTE"	<ELEMENT>	<ELEMENT>	<ELEMENT>
EmployeeID	LastName	FirstName	Title
1	Davolio	Nancy	Sales Representat
2	Fuller	Andrew	Vice President, Sa
3	Leverling	Janet	Sales Representat
4	Peacock	Margaret	Sales Representat
5	Buchanan	Steven	Sales Manager

**Preview**

```
<?xml version="1.0" encoding="UTF-8" ?>
<Employees>
  <Employee EmployeeID="1">
    <LastName>Davolio</LastName>
    <FirstName>Nancy</FirstName>
    <Title>Sales Representative</Title>
  </Employee>
  <Employee EmployeeID="2">
    <LastName>Fuller</LastName>
    <FirstName>Andrew</FirstName>
    <Title>Vice President, Sales Representative</Title>
  </Employee>
  <Employee EmployeeID="3">
    <LastName>Leverling</LastName>
    <FirstName>Janet</FirstName>
    <Title>Sales Representative</Title>
  </Employee>
  <Employee EmployeeID="4">
    <LastName>Peacock</LastName>
    <FirstName>Margaret</FirstName>
    <Title>Sales Representative</Title>
  </Employee>
  <Employee EmployeeID="5">
    <LastName>Buchanan</LastName>
    <FirstName>Steven</FirstName>
    <Title>Sales Manager</Title>
  </Employee>
</Employees>
```

**Criteria**

Where Clause:

Order By Clause:

Group By Clause:



**Figure 6. Import From Database Table**

## Import From SQL/XML Query

A number of databases, including IBM DB2 and Oracle, support a standard mechanism for automatically generating XML output from SQL-like queries. Ensure that the correct JDBC drivers have been added to the application and then select **File->Import->From SQL/XML Query.....** Enter the appropriate Driver, Database, Username and Password in the connection dialog, and click **OK**.

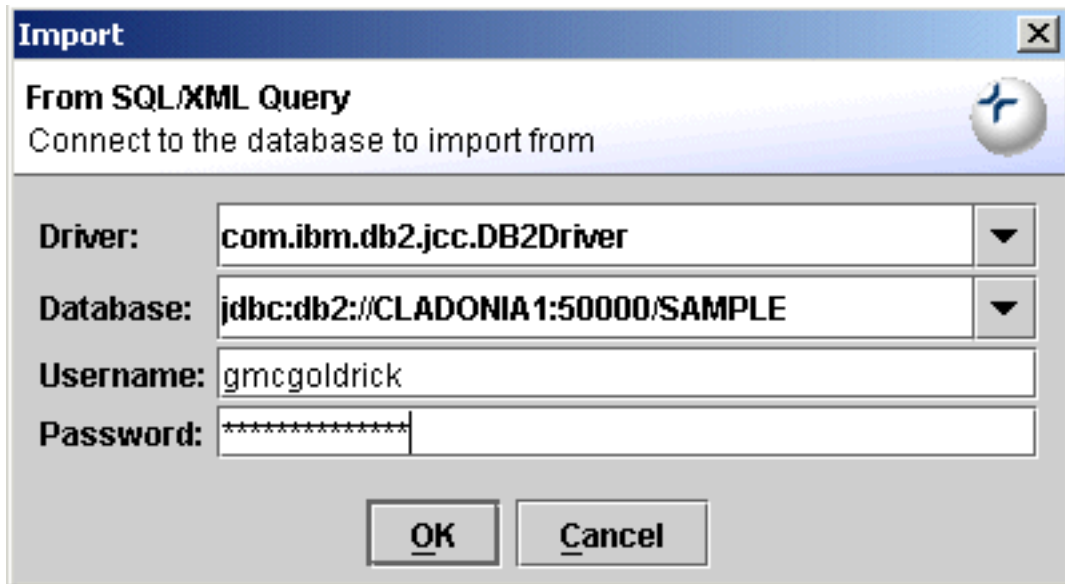


Figure 7. Import From SQL/XML Query

For the IBM DB2 Universal Driver, the **Driver** field is **com.ibm.db2.jcc.DB2Driver** while the **Database** field will be similar to **jdbc:db2://localhost:50000/SAMPLE**. In the popup window, either manually type in a query or use the **Import Script** button and select the file `sample.sqx` from the `Import SQL/XML` project.

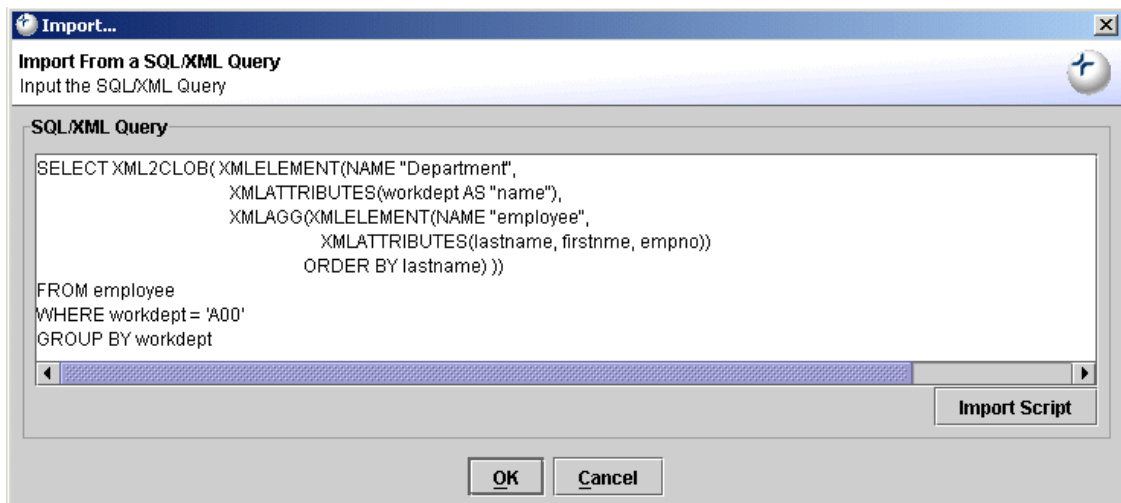


Figure 8. Import SQL/XML Script

Press **OK** and the query results will be displayed in the Editor. Note that SQL/XML will not always return valid XML - often, the returned elements will need to be surrounded by a root element.