**Filter Transformation**

The Filter transformation allows you to filter rows in a mapping. You pass all the rows from a source transformation through the Filter transformation, and then enter a filter condition for the transformation. All ports in a Filter transformation are input/output and only rows that meet the condition pass through the Filter transformation.

As an active transformation, the Filter transformation may change the number of rows passed through it. A filter condition returns TRUE or FALSE for each row that passes through the transformation, depending on whether a row meets the specified condition. Only rows that return TRUE pass through this transformation. Discarded rows do not appear in the session log or reject files.

You cannot concatenate ports from more than one transformation into the Filter transformation. The input ports for the filter must come from a single transformation. The Filter transformation does not allow setting output default values.

**Creating a Filter Transformation**

Step 1) Go to Start menu\All Programms\Informatica Power Center\ Informatica Power Center Client\Repository Manager

Connect to the repository, it will prompt “Connect to Repository” dialogue box.
Enter username and password and then click connect.

Go to Folder menu and choose create then it will prompt for “Creation Folder” window.
And give a name to folder and click ok.
When you click on ok button it will display a message box with the folder has been created. then you will minimize the Repository Manager.

Step2)
Go to Start menu\All Programms\Informatica Power Center\ Informatica Power Center Client\Designer

Connect to the repository then it will prompt for username and password, enter the user name and password in the “Connect to Repository” dialogue box and then click connect.

Then the Designer window will be appear as follows with the folder “Filter Transformation”

2.1 ➔ Select Tools Menu and then click Source Analyzer

2.2 ➔ Select Sources Menu and then click Import from Database …
Then it will display “Import Tables” dialogue box.
Choose ODBC data source as “odbc1 (Microsoft ODBC for Oracle)”
Enter Username and Password click connect then it will display list of tables in the specified user as follows, select any one of the table and then click ok as shown in the following figure. (in our experiment we select SALGRADE table)

![Import Tables Dialogue Box](image)

Then it will display the SALGRADE table in the Designer area as shown in the following figure.
2.3 Select Tools Menu and click Warehouse Designer

2.4 Select Targets Menu and click Import from Database

Then it will display “Import Tables” dialogue box. Choose ODBC data source as “odbc 2 (Microsoft ODBC for Oracle)” Enter Username and Password click connect then it will display list of tables in the specified user as follows, select any one of the table and then click ok as shown in the following figure.(in our experiment we select SALGRADE table)

Then it will display the SALGRADE table in the Designer area as shown in the following figure.
Select Targets Menu and click Generate/Execute SQL … then it will display “Database Object Generation” dialogue box.

In that dialogue box check on the “create table” in the “Generation Options” and click connect button then it will prompt a dialogue box “connect to ODBC data Source, Select ODBC data source, and enter Username and Password and then click connect, after that click on Generate and execute button then click close.

2.5 ➔ Select Tools Menu and click Mapping Designer

Select Mappings Tool and click Create then it will prompt for Mapping Name, there you have to enter a name and click ok.

Select the SALGRADE table from the sources\odbc1 in the left pane of the Designer window and dragged into the Mapping Designer area.

Select Transformation Menu and then click create … then it will display Create Transformation dialogue box as shown below and give a name for this transformation and select filter transformation from the list and then click create and done. Then it will display the filter transformation table into the Mapping Designer area.

Drag the fields which we required to the filter transformation table, If you want to add more fields then right click on it and click edit then it will display the Edit Transformation dialogue box as shown in the following figure.
In this dialogue box if you choose ports tab then we have modify, add or delete the existing rows.

Choose the Properties tab and click at filter condition to give the condition then it will display the following dialogue box
Give the condition there and click validate. If the given condition is valid then it will display a message box as expression parses successfully after that click ok.

And then click ok and apply then click ok.

Now drag the SALGRADE table from the targets into Mapping Designer area.

Select Layout tool and click on Auto Link then it will display the Auto Link dialogue box and select the “from transformation “, “to transformation” and then click ok as shown in the following figure.
Then the links will created in the following manner.

Select Repository tool and click save.

Step 3) Go to Start menu\All Programms\Informatica Power Center\ Informatica Power Center Client\Workflow Manager

Connect to the repository then it will prompt for username and password, enter the user name and password in the “Connect to Repository” dialogue box and then click connect.

3.1 → Select Tools menu and click Workflow Designer

Select Workflows Menu and click Create then it will prompt new workflow name. Give a name and click ok

3.2 → Select Tasks menu and click Create then it will display the Create task dialogue box give a name and then click create and click ok and done.

3.3 → Select Tasks Menu and click Link Task, link workflow to task. as shown in the following figure.
3.4 → Tasks menu and click edit then it display a window, choose Mapping tab, in the mapping tab select Targets\SALGRADE1 then the connection relations will displayed at the right side of the window. There we have to change the connections as oracle1, and in the properties choose normal( if it shown as bulk) and then click Apply and click ok.

Select Repository Menu and click save.

3.5 → Select Server menu and click Assign Server then it will display the Assign Server window.

Choose server and assign the folder and then click ok.

3.6 → Right click on the task and click on the Start Workflow from task then it will display the Workflow Monitor window and there we have to observe that workflow has been succeeded as shown in the following figure.
Go to SQL… and connect to user1. and execute the following queries.

SQL> select * from tab;

<table>
<thead>
<tr>
<th>TNAME</th>
<th>TABTYPE</th>
<th>CLUSTERID</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMP</td>
<td>TABLE</td>
<td></td>
</tr>
<tr>
<td>SALGRADE</td>
<td>TABLE</td>
<td></td>
</tr>
</tbody>
</table>

SQL> select * from salgrade;

<table>
<thead>
<tr>
<th>GRADE</th>
<th>LOSAL</th>
<th>HISAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>700</td>
<td>1200</td>
</tr>
<tr>
<td>2</td>
<td>1201</td>
<td>1400</td>
</tr>
</tbody>
</table>