

What is Filter Transformation and How to use it?

Filter Transformation in Informatica is an active transformation, which is used to filter (or) removing the unwanted data on condition that we created using Ports, Operator and operand elements.

Filter Transformation in Informatica

Filter Transformation returns '**True**' or '**False**'. **True** indicates that an Input record meets the given condition and the record is delivered for '**loading**'. **False** indicates, that an input records does not meet the condition and record is delivered for '**Reject**'.

Filter Transformation with Example

In this filter transformation example, we are going to create Filter Employees who's Salary greater than 2000. Bases on the source data, we can filter the data. If source is a relational, we can filter the rows using source qualifier filer. If source is a flat file we use filer transformation.

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Creating Filter Transformation Mapping

To create Mapping for any transformation, source and target must be selected. Here our source is **EMP** and Target is **T_EMP**.

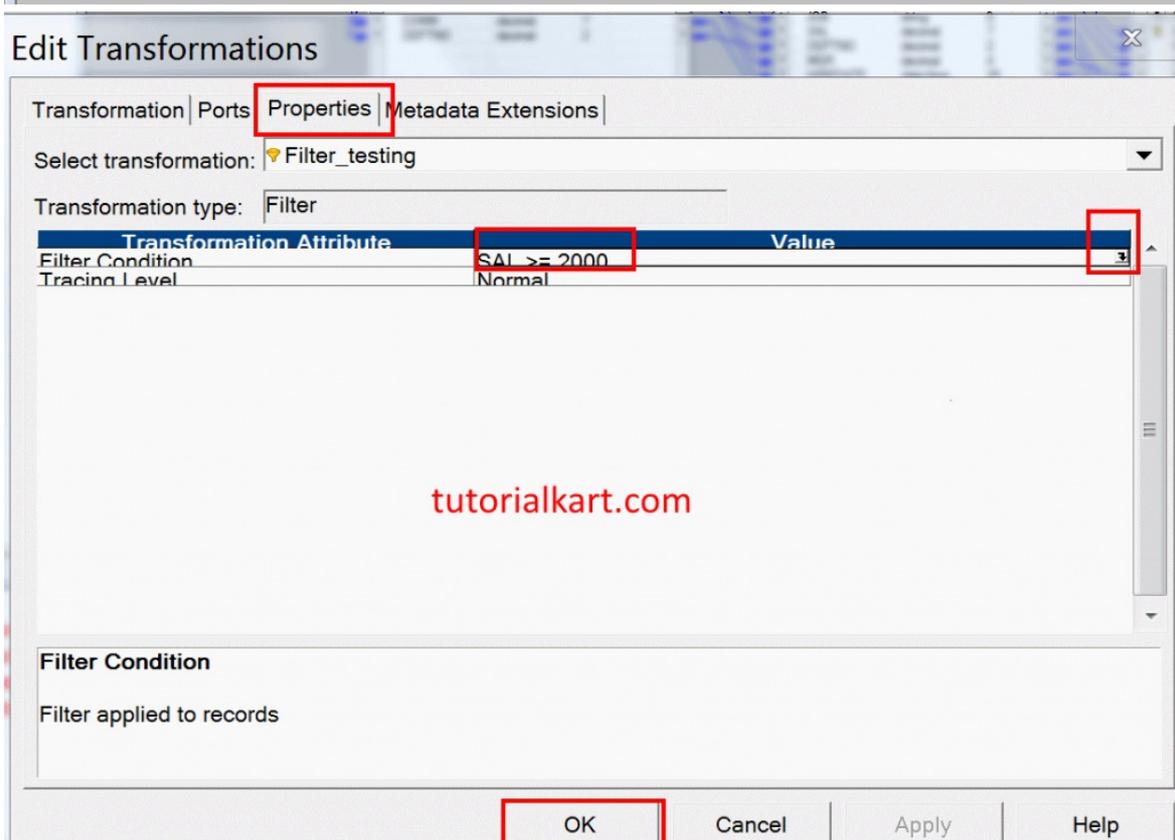
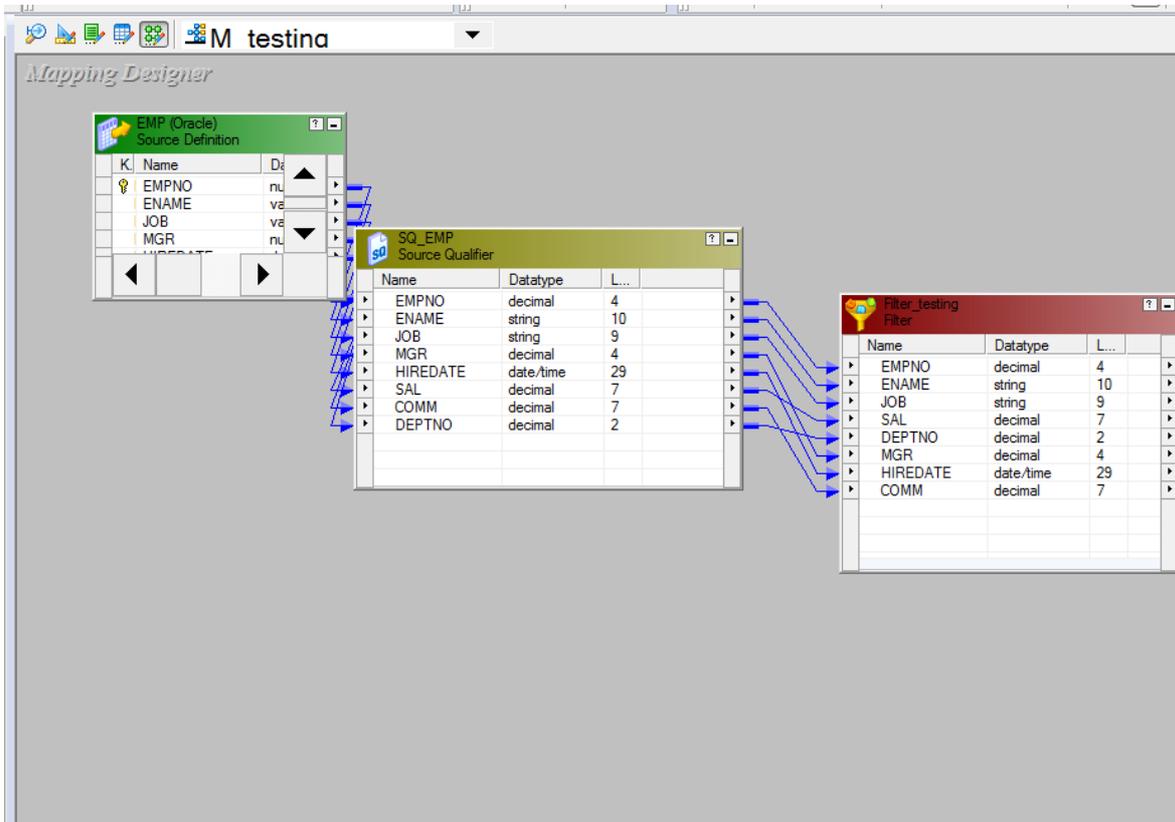
Drag and drop source table and target table from repository navigator window to workspace window. When a source table is inserted in the workspace, automatically **SQ_EMP** is inserted. SQ means source qualifier.

Creating Filter Transformation

Navigate to transformation tab to create filter transformation. A new window will be opened with two options, select transformation type as Filter and enter the name for transformation.

Adding filter condition.

In this example, our main purpose is to filter employees whose **salary >= 2000**. Select the required fields from **SQ_EMP** and drop those fields into Filter transformation.

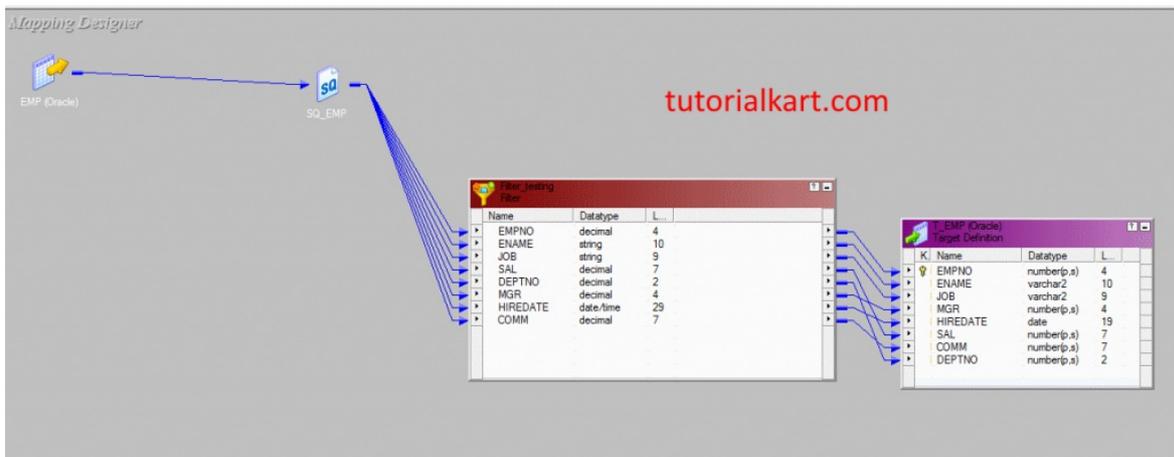


Now Double click on the filter transformation header and click on properties tab to add filter condition using expression editor. In this expression editor, select ports tabs, double click on SAL and enter condition as **SAL <= 2000** as shown below.

- Click on validate to check the condition is valid or not and finally apply the condition.

Adding Port from Filter Transformation to Target Table

Already we have added target table from navigator to workspace window, select required ports from the filter transformation and drop the ports into target table (**T_EMP**) as shown below.



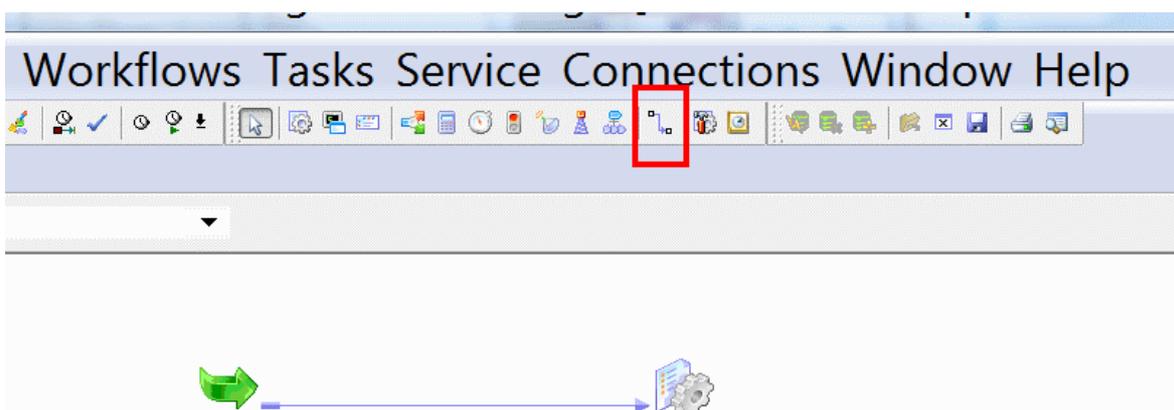
- Go to repository menu to Save.

Creating Workflow and Session for Filter Transformation

Now we are going to create filter workflow for our transformation. To create workflow in Informatica PowerCenter, open Informatica PowerCenter Workflow manager.

- Navigate to **tools | Workflow designer | Create** and enter the name for workflow.

Now our main step is to create a session for our transformation. Session in Informatica is a set of instruction which defines how and when to move the data from Source definition to target definition. To create a session, go to **tasks | click on create**.

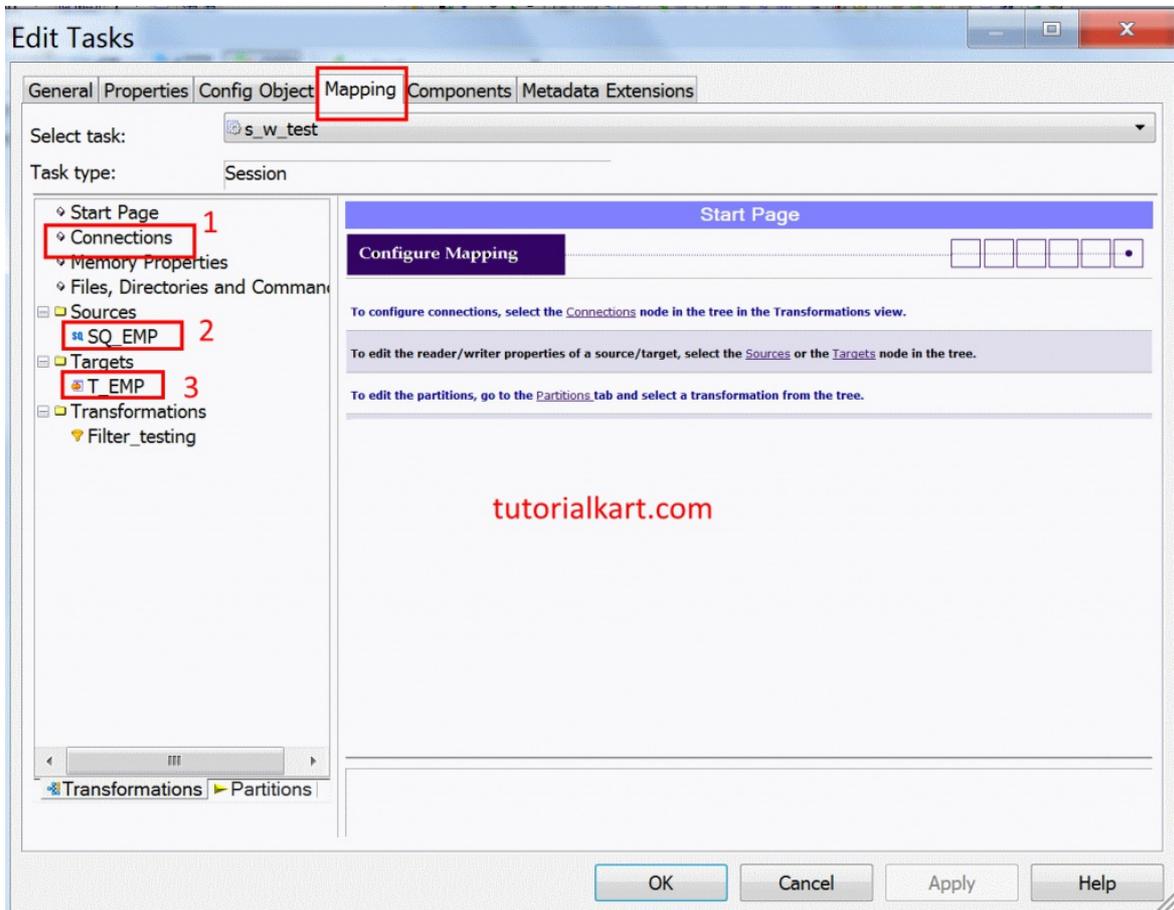


Start

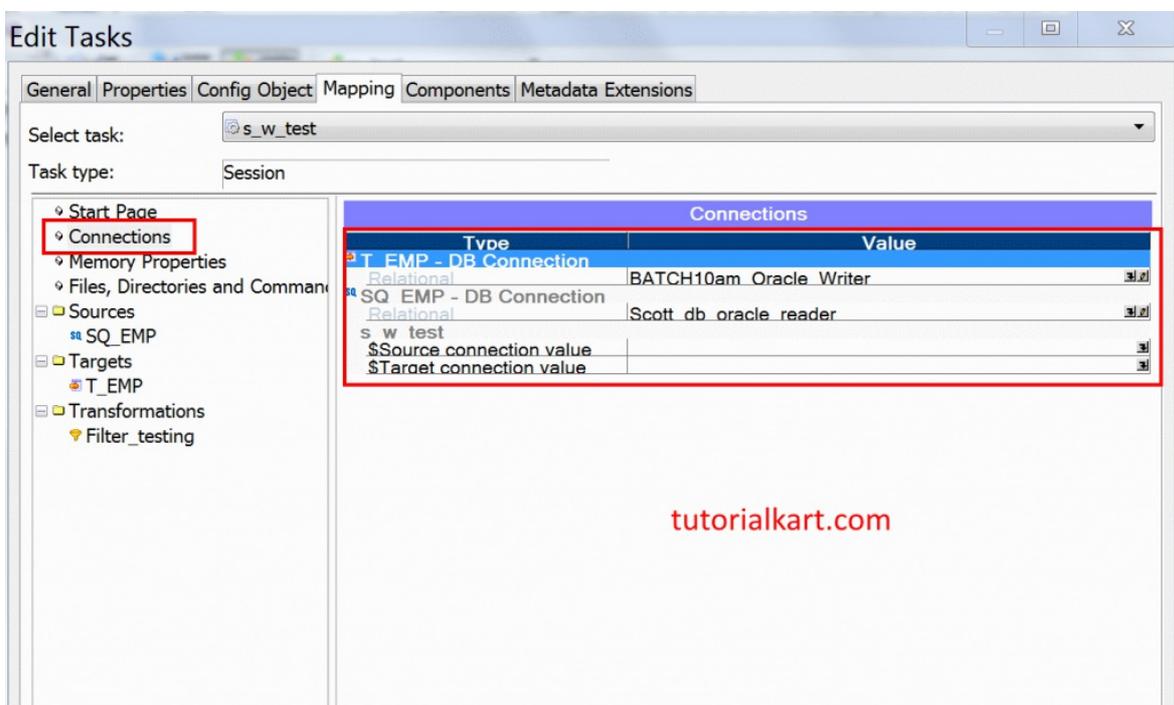
s_w_tes...

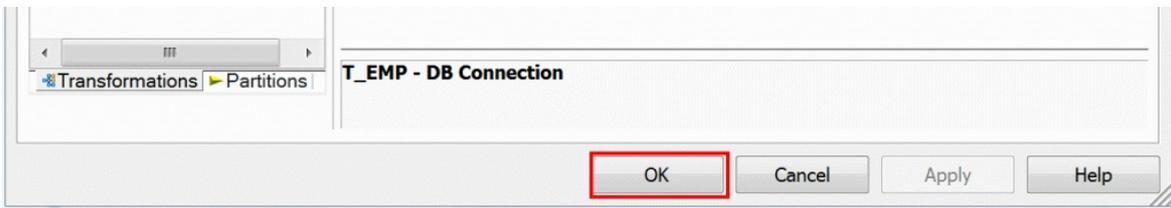
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Enter a name for your session and connect with workflow using link task as shown below. Now we are going to configure mapping for our session by editing session. Double click on session and navigate to Mappings tab.

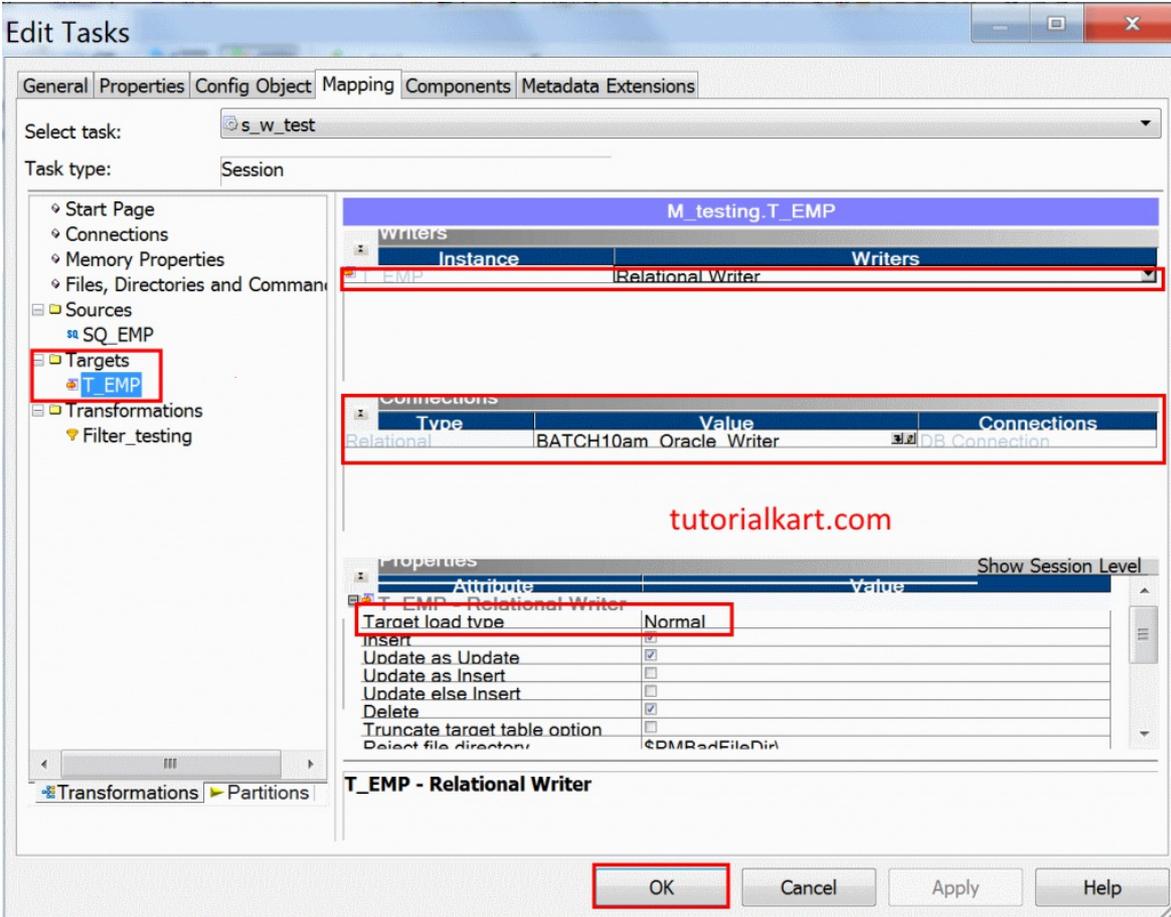


- Click on Connection and select the value as shown below.





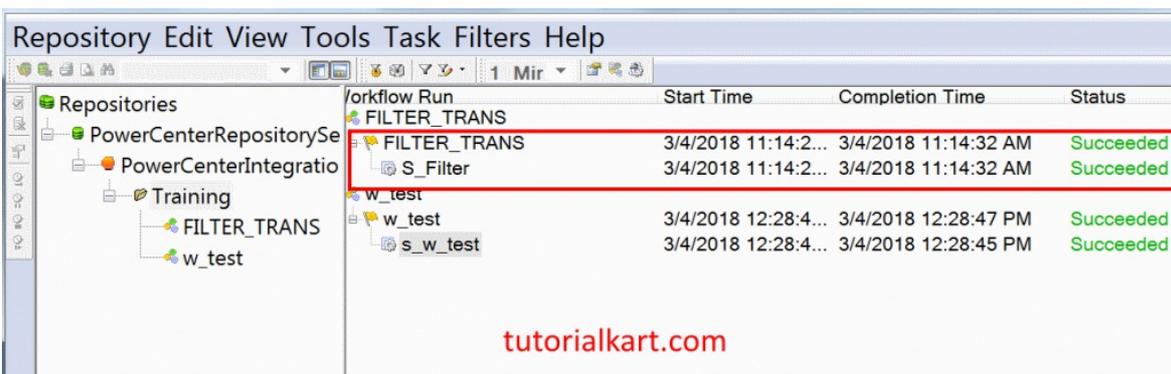
- Now select database connection for source and targets. In target, change target load type from build to normal and finally click on Ok button.



- Go to workflow and click on validate to check our session is valid or not.
- Save the workflow settings.

Run Filter Transformation Workflow

To run a workflow in Informatica PowerCenter, navigate to Workflow and click on start workflow. Now our workflow will be executed and the status will be monitored in Workflow monitor. Open Informatica PowerCenter Workflow monitor to check workflow is executed successfully or not.



Transformation	Node	Applied	Affected	Rejected	Throughput (Rows)	Throughput (Bytes)	Bytes	Last Error
SQ_EMP	node01	14	14	0	14	1078	1078	0
T_EMP	node01	6	6	0	6	462	462	0

As shown above, in source table we 14 rows, after applying filter transformation with condition **SAL >= 2000**, 6 rows has been loaded successfully into target table and no row is rejected.

Check Filter Transformation Output in SQL Developer

Open SQL developer in your local machine and open target table as shown below.

Oracle SQL Developer : Table BATCH10AM.T_EMP@TUTORIALKART

File Edit View Navigate Run Team Tools Window Help

Columns Data Model Constraints Grants Statistics Triggers Flashback De

Sort Filter

EMP...	ENA...	JOB	MGR	HIR...	SAL	COMM	DEP...
1	7782 CLARK	MANAGER	7839 09-JUN-81	2450	(null)	10	
2	7698 BLAKE	MANAGER	7839 01-MAY-81	2850	(null)	30	
3	7566 JONES	MANAGER	7839 02-APR-81	2975	(null)	20	
4	7902 FORD	ANALYST	7566 03-DEC-81	3000	(null)	20	
5	7788 SCOTT	ANALYST	7566 19-APR-87	3000	(null)	20	
6	7839 KING	PRESIDENT	(null) 17-NOV-81	5000	(null)	10	

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