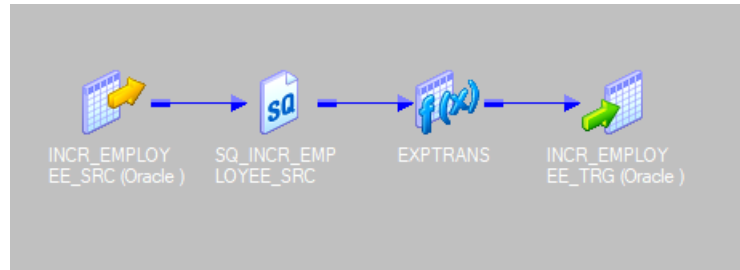


## Designer Window

### Design Mapping

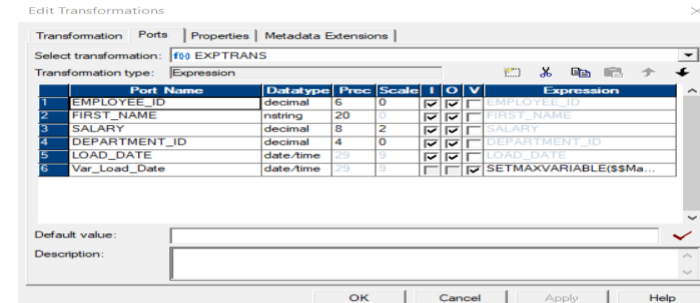


### SQL Overwrite

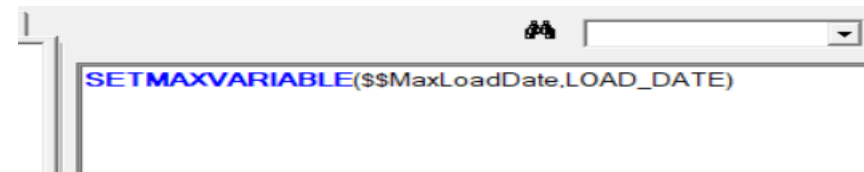
```

SQL:
SELECT INCR_EMPLOYEE_SRC.EMPLOYEE_ID,
INCR_EMPLOYEE_SRC.FIRST_NAME,
INCR_EMPLOYEE_SRC.SALARY,
INCR_EMPLOYEE_SRC.DEPARTMENT_ID,
INCR_EMPLOYEE_SRC.LOAD_DATE
FROM
INCR_EMPLOYEE_SRC
where
INCR_EMPLOYEE_SRC.LOAD_DATE > '$$MaxLoadDate'
  
```

### Create Transformation



### Set Max Variable Function

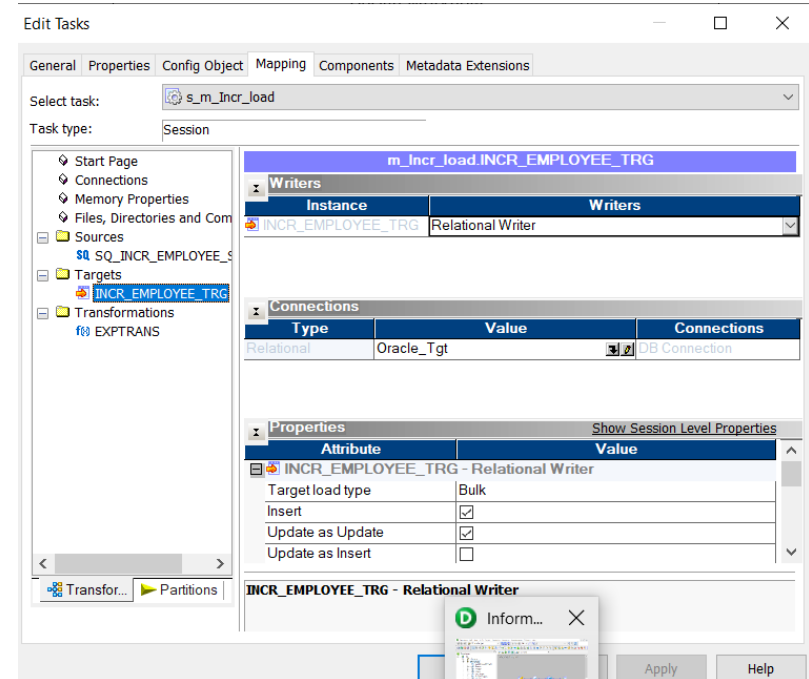


## Workflow Manager

### Design Workflow



### Configure connection



## Workflow Monitor

### Run Properties

Workflow Monitor interface showing a Gantt Chart and Task View for the task **s\_m\_incr\_load** [29-02-2024 12:11:24].

**Task Details**

**Source/Target Statistics**

Transformation Name	Node	Applied Rows	Affected Rows	Rejected Rows	Throughput (Rows/Sec)	Throughput (Bytes/Sec)	Byte
INCR_EMPLOYEE...	node01	2	2	0	2	122	122
sq_incr_emplo...	node01	2	2	0	2	122	122

### Session Logs

SESSION LOAD SUMMARY

INFO 29-02-2024 12:11:26 node01 DIRECTOR TM\_6252 Source Load Summary.

INFO 29-02-2024 12:11:26 node01 DIRECTOR CMN\_1740 Table [SQ\_INCR\_EMPLOYEE\_SRC] (Instance Name: [SQ\_INCR\_EMPLOYEE\_SRC])  
Output Rows [2]. Affected Rows [2]. Rejected Rows [0]

INFO 29-02-2024 12:11:26 node01 DIRECTOR TM\_6253 Target Load Summary.

INFO 29-02-2024 12:11:26 node01 DIRECTOR CMN\_1740 Table [INCR\_EMPLOYEE\_TRG] (Instance Name: [INCR\_EMPLOYEE\_TRG])  
Output Rows [2]. Affected Rows [2]. Applied Rows [2]. Rejected Rows [0]

INFO 29-02-2024 12:11:26 node01 DIRECTOR TM\_6023

INFO 29-02-2024 12:11:26 node01 DIRECTOR TM\_6020 Session [s\_m\_incr\_load] completed at [Thu Feb 29 12:11:26 2024].

## Source Vs Target

### Source

SQL Script:

```
5 Update incr_employee_src
6 set Load_date = '02-Nov-2020',
7 salary = 10000
8 where employee_id = 4
```

Script Output x Query Result x

SQL | All Rows Fetched: 5 in 0.003 seconds

EMPLOYEE_ID	FIRST_NAME	SALARY	DEPARTMENT_ID	LOAD_DATE
1	thomas	15000	10	01-11-20
2	dany	15000	10	01-11-20
3	Scot	15000	10	01-11-20
4	Ruby	10000	10	02-11-20
5	Dolly	5000	20	02-11-20

Worksheet Query Builder

```
1 select * from incr_employee_src
2 where load_date = '02-Nov-2020';
```

Script Output x Query Result x

SQL | All Rows Fetched: 2 in 0.006 seconds

EMPLOYEE_ID	FIRST_NAME	SALARY	DEPARTMENT_ID	LOAD_DATE
1	4 Ruby	10000	10	02-11-20
2	5 Dolly	5000	20	02-11-20

### Target

Worksheet Query Builder

```
1 select * from incr_employee_trg;
```

Query Result x

SQL | All Rows Fetched: 6 in 0.005 seconds

EMPLOYEE_ID	FIRST_NAME	SALARY	DEPARTMENT_ID	LOAD_DATE
1	thomas	15000	10	01-11-20
2	dany	15000	10	01-11-20
3	Scot	15000	10	01-11-20
4	Ruby	15000	10	01-11-20
5	4 Ruby	10000	10	02-11-20
6	5 Dolly	5000	20	02-11-20

Worksheet Query Builder

```
1 select * from incr_employee_trg
2 where load_date = '02-Nov-2020';
```

Query Result x

SQL | All Rows Fetched: 2 in 0.004 seconds

EMPLOYEE_ID	FIRST_NAME	SALARY	DEPARTMENT_ID	LOAD_DATE
1	4 Ruby	10000	10	02-11-20
2	5 Dolly	5000	20	02-11-20

## Design & Development

- Import source and target details to the Designer
- Design Mapping from source to target with necessary transformation
- For Incremental loading of Data, we need to use Mapping Variable.
- The control variable can be timestamp or unique Id's of a column
- With the help of setmaxvariable function, assign a value to the mapping variable
- In SQ, specify condition to load data if and only if load date is greater than the mapping variable (SQL overwrite)

## Data Validation

- Check Run properties and session logs for the detailed report
- Validate source and target with Load date in the filter condition
- If source or target is Flat file, then validate the count or records with the help of grep command