



# Session Logs

					SESSION LOAD SUMMARY
INF0	21-02-2024 18:58:06	node01	DIRECTOR	TM_6252	Source Load Summary.
INF0	21-02-2024 18:58:06	node01	DIRECTOR	CMN_1740	Table: [SQ_Departments_FF] (Instance Name: [SQ_Departments_FF]) Output Rows [27], Affected Rows [27], Applied Rows [27], Rejected Rows [0]
INFO	21-02-2024 18:58:06	node01	DIRECTOR	CMN_1740	Table: [SQ_Employees_FF] (Instance Name: [SQ_Employees_FF]) Output Rows [109]. Affected Rows [109]. Applied Rows [109]. Rejected Rows [0]
INFO	21-02-2024 18:58:06	node01	DIRECTOR	TM_6253	Target Load Summary.
INF0	21-02-2024 18:58:06	node01	DIRECTOR	CMN_1740	Table: [Trg_Emp] (Instance Name: [Trg_Emp]) Output Rows [107], Affected Rows [107], Applied Rows [107], Rejected Rows [0]
INF0	21-02-2024 18:58:06	node01	DIRECTOR	TM_6023	
INFO	21-02-2024 18:58:06	node01	DIRECTOR	TM_6020	Session [s_F2F] completed at [Wed Feb 21 18:58:06 2024].

## **Source Vs Target**

## Source Employees Flat File

```
F:\VARMA\IT_Transition\ETL\F2F>bash
varma@DESKTOP-0E3HS0A:/mnt/f/VARMA/IT_Transition/ETL/F2F$ cat Employees.csv
EMPLOYEE_ID,FULL_NAME,DEPARTMENT_ID
198,DonaldOConnell,50
199,DouglasGrant,50
200,JenniferWhalen,10
201,MichaelHartstein,20
202,PatFay,20
203,SusanMavris,40
204,HermannBaer,70
```

## Departments Flat File

```
varma@DESKTOP-0E3HS0A:/mnt/f/VARMA/IT_Transition/ETL/F2F$ cat Departments.csv
"DEPARTMENT_ID", "DEPARTMENT_NAME"
10, "Administration"
20, "Marketing"
30, "Purchasing"
40, "Human Resources"
50, "Shipping"
60, "IT"
70, "Public Relations"
80, "Sales"
90, "Executive"
100 "Finance"
```

#### Target

### Trg\_Emp Flat File

```
varma@DESKTOP-0E3HS0A:/mnt/f/VARMA/IT_Transition/ETL/F2F$ cat Trg_Emp.csv
#EMPLOYEE_ID,FULL_NAME,DEPARTMENT_ID,DEPARTMENT_NAME
100,"StevenKing",90,"Executive"
101,"NeenaKochhar",90,"Executive"
102,"LexDe Haan",90,"Executive"
103,"AlexanderHunold",60,"IT"
104,"BruceErnst",60,"IT"
105,"DavidAustin",60,"IT"
106,"ValliPataballa",60,"IT"
107,"DianaLorentz",60,"IT"
108,"NancyGreenberg",100,"Finance"
109,"DanielFaviet",100,"Finance"
```

#### **Positive Scenarios**

#### Count of Records in Source vs Target

varma@DESKTOP-UE3HSUA: /mnt/f/VAKMA/TI\_Transition/ETL/F2F

```
varma@DESKTOP-0E3HS0A:/mnt/f/VARMA/IT_Transition/ETL/F2F$ cat Employees.csv | wc -l
110
varma@DESKTOP-0E3HS0A:/mnt/f/VARMA/IT_Transition/ETL/F2F$ cat Departments.csv | wc -l
28
varma@DESKTOP-0E3HS0A:/mnt/f/VARMA/IT_Transition/ETL/F2F$ cat Trg_Emp.csv | wc -l
108
varma@DESKTOP-0E3HS0A:/mnt/f/VARMA/IT_Transition/ETL/F2F$
```

#### <u>Duplicates In Source vs Target</u>

```
varma@DESKTOP-0E3HS0A:/mnt/f/VARMA/IT_Transition/ETL/F2F$ cat Employees.csv | sort | uniq -d
151,DavidBernstein,80
152,PeterHall,80
varma@DESKTOP-0E3HS0A:/mnt/f/VARMA/IT_Transition/ETL/F2F$ cat Trg_Emp.csv | sort | uniq -d
varma@DESKTOP-0E3HS0A:/mnt/f/VARMA/IT_Transition/ETL/F2F$
```

#### Sorter & Joiner Transformation in Target Files

Employee Details in Ascending Order
Department Name in Target (Joined from Departments File)

```
varma@DESKTOP-0E3HS0A:/mnt/f/VARMA/IT_Transition/ETL/F2F$ cat Trg_Emp.csv | head
#EMPLOYEE_ID,FULL_NAME,DEPARTMENT_ID,DEPARTMENT_NAME
100,"StevenKing",90,"Executive"
101,"NeenaKochhar",90,"Executive"
102,"LexDe Haan",90,"Executive"
103,"AlexanderHunold",60,"IT"
104,"BruceErnst",60,"IT"
105,"DavidAustin",60,"IT"
106,"ValliPataballa",60,"IT"
107,"DianaLorentz",60,"IT"
108,"NancyGreenberg",100,"Finance"
```

## **Negetive Scenarios**

## <u>Invalid Datatype</u> <u>Delimiter Missing</u>

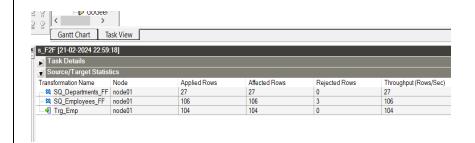
EMPLOYEE\_ID,FULL\_NAME,DEPARTMENT\_ID
198 DonaldOConnell,50
199a,DouglasGrant,50
VAR,JenniferWhalen,10

F:\VARMA\IT\_Transition\ETL\F2F>bash
varma@DESKTOP-0E3HS0A:/mnt/f/VARMA/IT\_Transition/ETL/F2F\$ cat Employees.csv |wc -1
110
varma@DESKTOP-0E3HS0A:/mnt/f/VARMA/IT\_Transition/ETL/F2F\$ cat Trg\_Emp.csv | wc -1
105
varma@DESKTOP-0E3HS0A:/mnt/f/VARMA/IT\_Transition/ETL/F2F\$

Lesser Rows in Target in comparison to source

- 1. Delimiter Not specified in a row
- 2. Alpha numeric entry for Employee ID, which has to be numeric
- 3. String instead of Numeric for Employee  $\ensuremath{\mathsf{ID}}$

## **Rejected Rows**



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					SESSION LOAD SUMMARY
INFO	21-02-2024 22:59:21	node01	DIRECTOR	TM_6252	Source Load Summary.
INF0	21-02-2024 22:59:21	node01	DIRECTOR	CMN_1740	Table: [SQ_Employees_FF] (Instance Name: [SQ_Employees_FF]) Output Rows [106]. Affected Rows [106]. Applied Rows [106]. Rejected Rows [3]
INF0	21-02-2024 22:59:21	node01	DIRECTOR	CMN_1740	Table: [SQ_Departments_FF] (Instance Name: [SQ_Departments_FF]) Output Rows [27], Affected Rows [27], Applied Rows [27], Rejected Rows [0]
INFO	21-02-2024 22:59:21	node01	DIRECTOR	TM_6253	Target Load Summary.
INF0	21-02-2024 22:59:21	node01	DIRECTOR	CMN_1740	Table: [Trg_Emp] (Instance Name: [Trg_Emp]) Output Rows [104], Affected Rows [104], Applied Rows [104], Rejected Rows [0]
INFO	21-02-2024 22:59:21	node01	DIRECTOR	TM_6023	

Flat file: Simple data sources, where data is stored in text format.

Types of Flat files:

1. Delimited flat File: Data is separated with delimiter (ex: CSV)

2. Fixed width Flat File: Where fields are defined on fixed width

### Design & Development

Import source and target details to the Designer (Both are Flat files)

Design Mapping from source to target with necessary transformation

Joiner Transformation used to get data from Multiple sources

Sorter transformation is used to sort the data and distinct properties defined to get unique records in the target.

Data Validation

Check Run properties and session logs for the detailed report

Validate source and target with Unix Commands

**Positive Scenarios:** 

- 1. Check Record counts in Source and Target
- 2. Check for Duplicates in Target
- 3. Check Transformation logic applied in Target
- 4. Use Diff Command to check for truncation of Data

## **Negative Scenarios**

1. Check for Different Delimiter than specified in SQ

- 2. Change Datatype in the column entries
- 3. Error Handling Mechanism (Ex: if the file is absent)
- 4. Process with zero byte files (File having No data)