

Weekly Assignment: Informatica Retail Store Data Processing

Kruthik Ballari

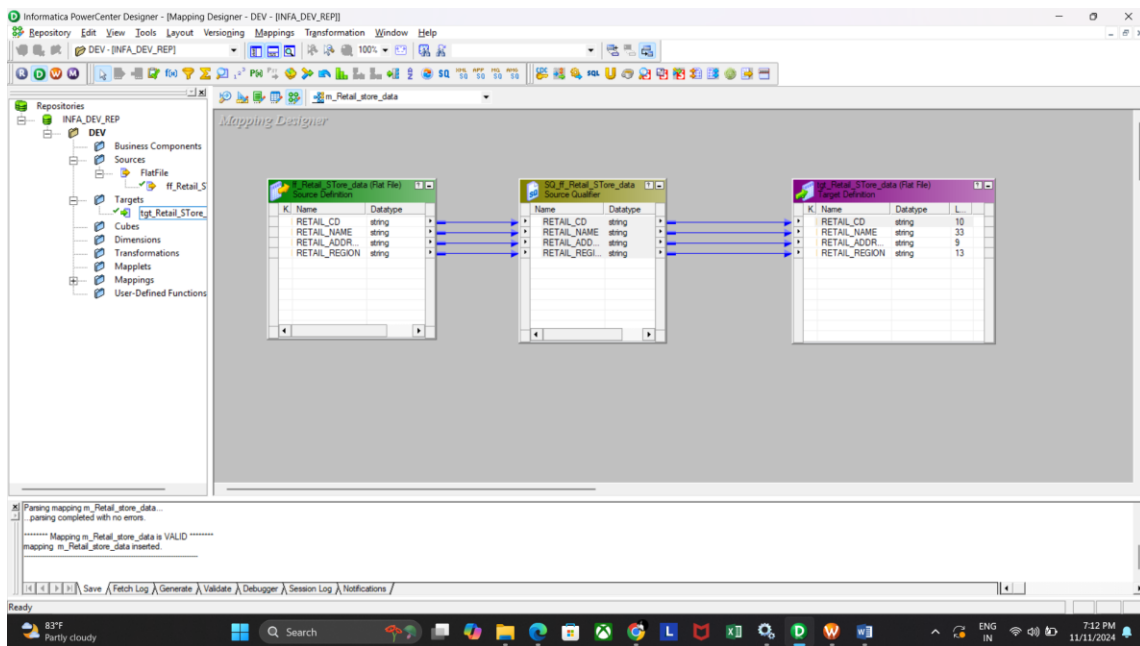
Assignment:

Question 1

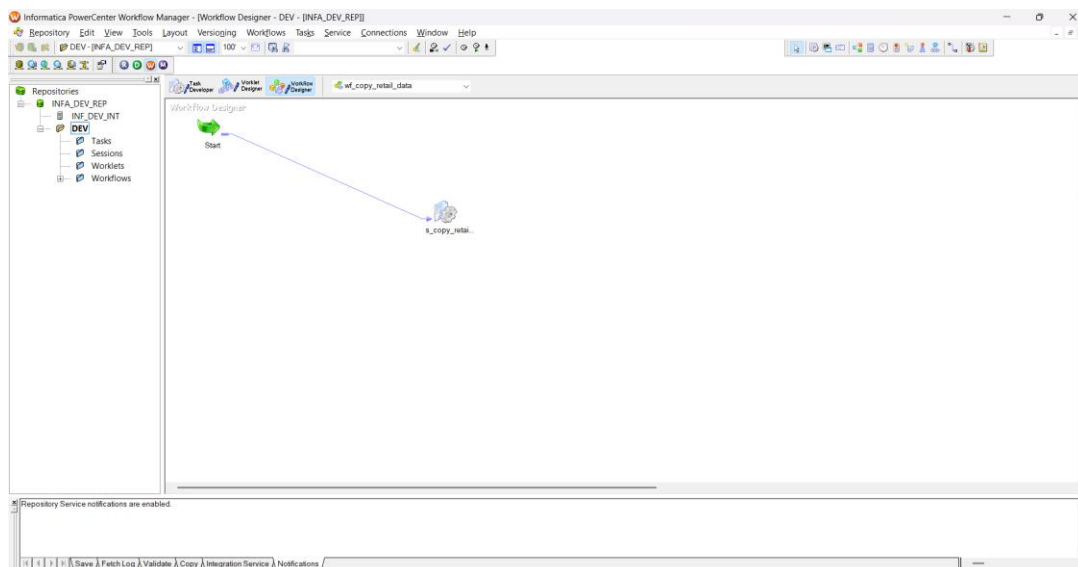
1. Retail_store file load into another file

- Load the provided Retail_store dataset file into a new output file.
- This task is focused on practicing file-to-file ETL transformations in Informatica

Mapping Created:



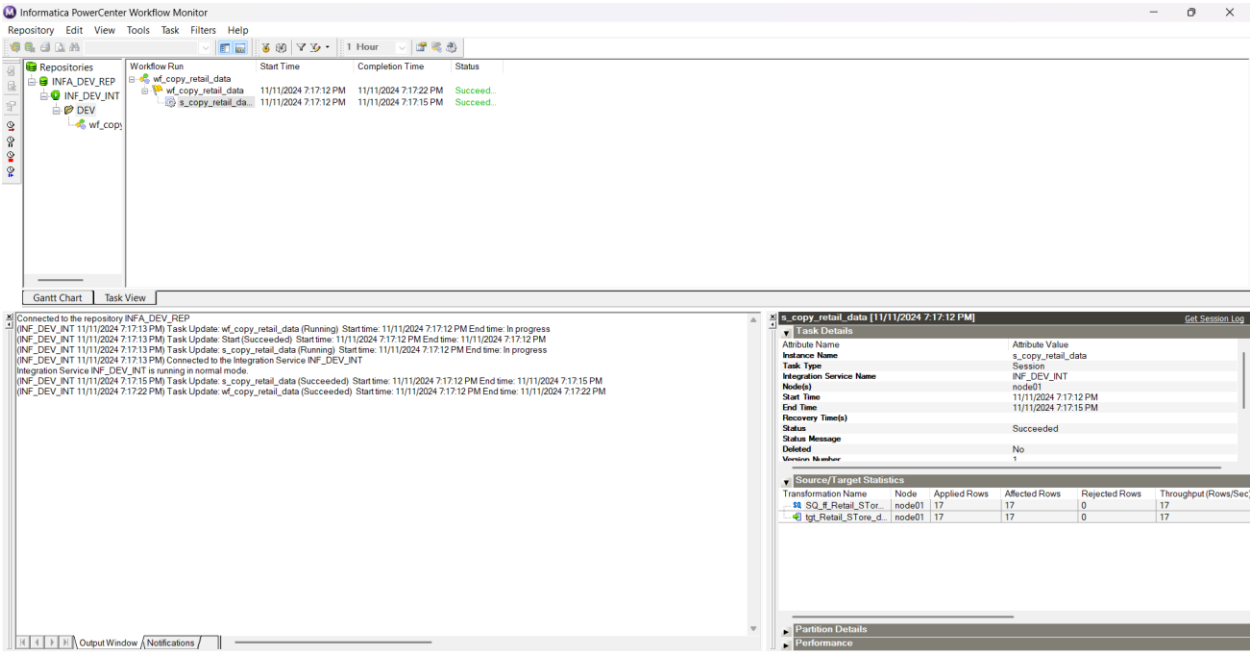
Workflow Created:



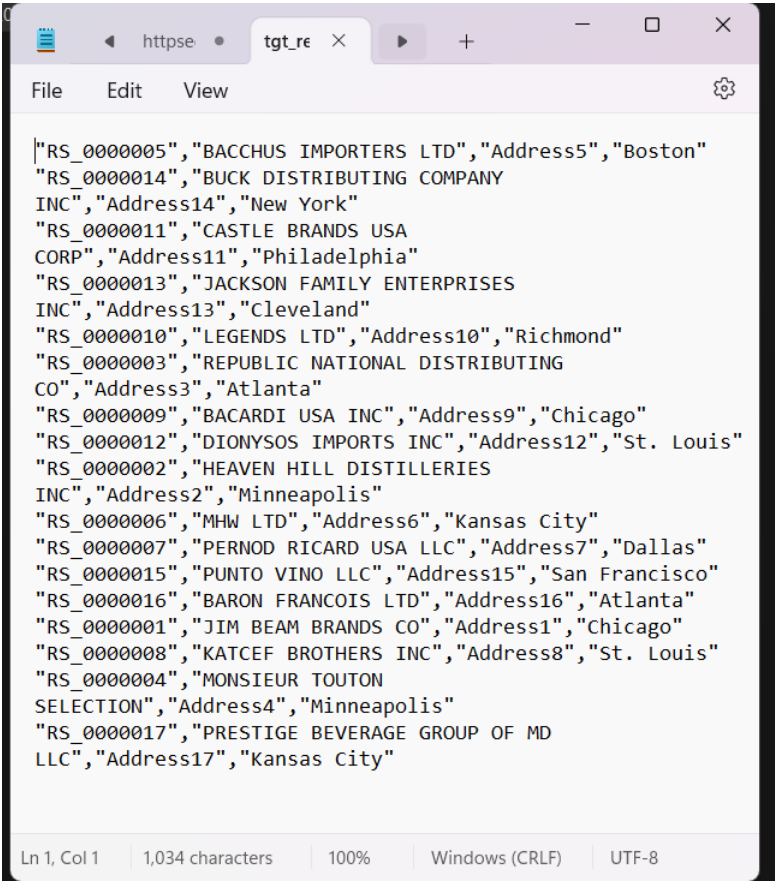
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Workflow Monitor:



Output File:



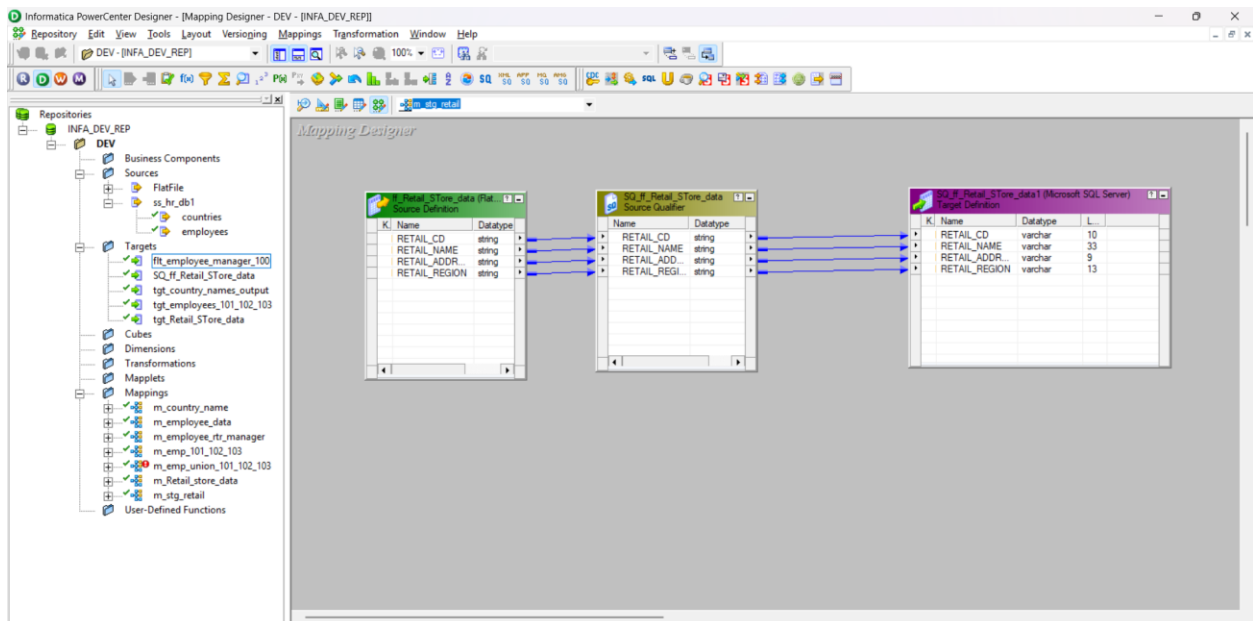
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2. Retail_store file load into table stg_retail .

1. Load the Retail_store data into the staging table stg_retail in the database.
2. Ensure accurate data mapping and loading with no errors. This step represents loading raw data into a staging environment.

Mapping Created:



Workflow Monitor:

The screenshot shows the Informatica PowerCenter Workflow Monitor interface. The 'Workflow Run' table displays the following data:

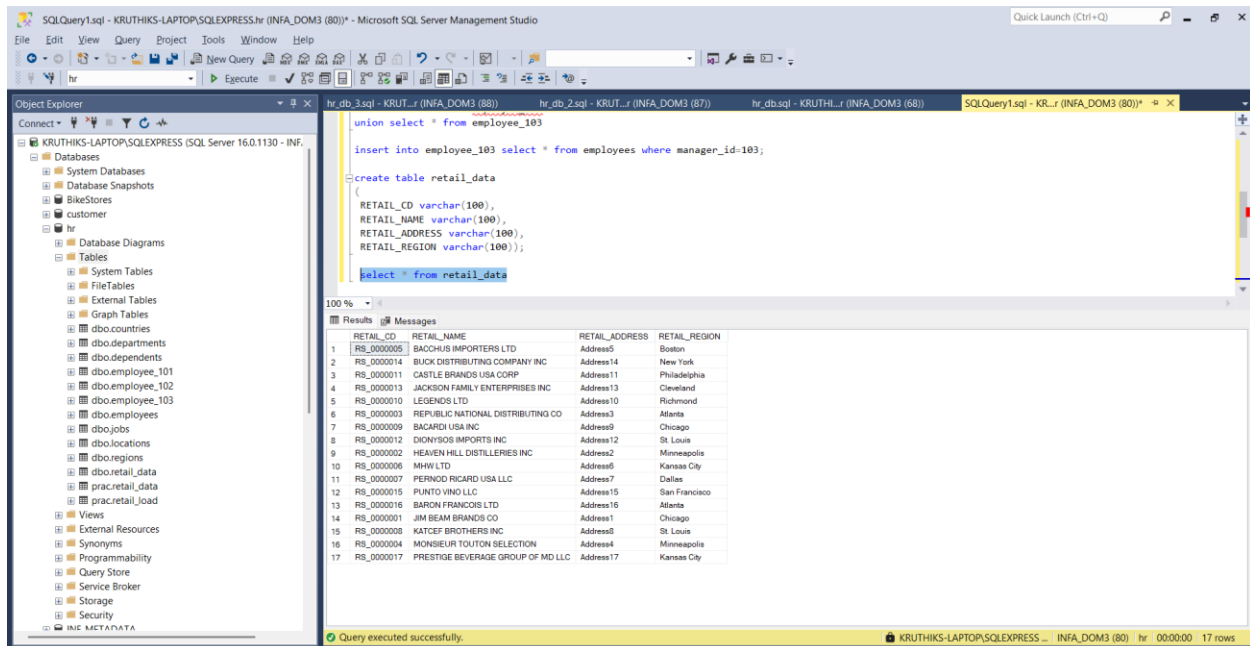
Workflow Run	Start Time	Completion Time	Status
INF_DEV_INT 11/12/2024 9:35:51 PM Task Update: wf_stg_retail	11/12/2024 9:35:50 PM	11/12/2024 9:36:00 PM	Succeeded
INF_DEV_INT 11/12/2024 9:35:51 PM Task Update: s_m_retail_data (Running)	11/12/2024 9:35:50 PM	11/12/2024 9:35:52 PM	Succeeded

The 'Task View' pane shows the details for the 's_m_retail_data' task. The task is running in normal mode. The 'Status Message' is 'Succeeded'. The 'Recovery Time(s)' is 'No'. The 'Version Number' is '1'. The 'Mapping Name' is 'm_stg_retail'. The 'Source Success Flows' is '17'. The 'Source Failed Flows' is '0'. The 'Target Success Flows' is '17'. The 'Target Failed Flows' is '0'. The 'Total Transformation Errors' is '0'.

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Output:



```
union select * from employee_103

insert into employee_103 select * from employees where manager_id=103;

create table retail_data
(
    RETAIL_CD varchar(100),
    RETAIL_NAME varchar(100),
    RETAIL_ADDRESS varchar(100),
    RETAIL_REGION varchar(100));

select * from retail_data
```

RETAIL_CD	RETAIL_NAME	RETAIL_ADDRESS	RETAIL_REGION
RS_000005	BACCHUS IMPORTERS LTD	Address5	Bottom
RS_000014	BUCK DISTRIBUTING COMPANY INC	Address14	New York
RS_000011	CASTLE BRANDS USA CORP	Address11	Philadelphia
RS_000013	JACKSON FAMILY ENTERPRISES INC	Address13	Cleveland
RS_000010	LEGENDS LTD	Address10	Richmond
RS_000003	REPUBLIC NATIONAL DISTRIBUTING CO	Address3	Atlanta
RS_000009	BACARDI USA INC	Address9	Chicago
RS_000012	DIONYSOS IMPORTS INC	Address12	St. Louis
RS_000002	HEAVEN HILL DISTILLERIES INC	Address2	Minneapolis
RS_000006	MHW LTD	Address6	Kansas City
RS_000007	PERNOD RICARD USA LLC	Address7	Dallas
RS_000015	PUNTO VINO LLC	Address15	San Francisco
RS_000016	BARON FRANCOIS LTD	Address16	Atlanta
RS_000001	JIM BEAM BRANDS CO	Address1	Chicago
RS_000008	KATCEP BROTHERS INC	Address8	St. Louis
RS_000004	MONSIEUR YOUTON SELECTION	Address4	Minneapolis
RS_000017	PRESTIGE BEVERAGE GROUP OF MD LLC	Address17	Kansas City

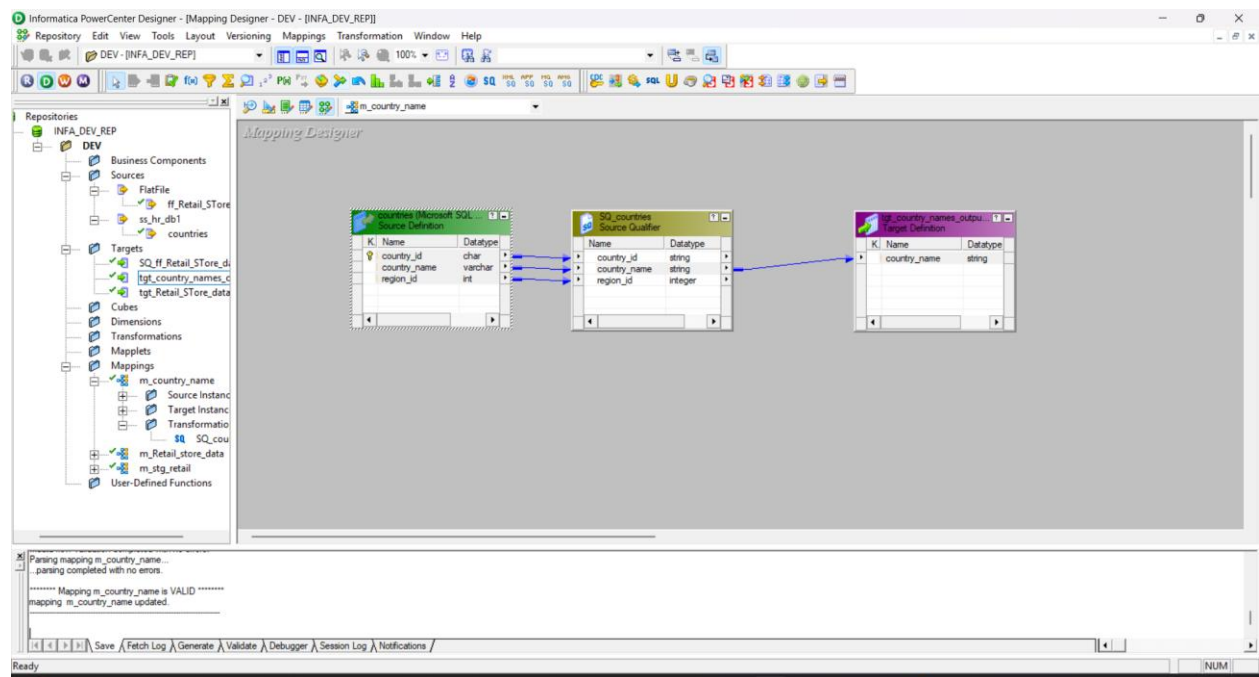
3. Create a file of country names using country table

- Extract data from the country table to create a file containing only country names.
- This exercise will help you practice extracting specific columns from a table.

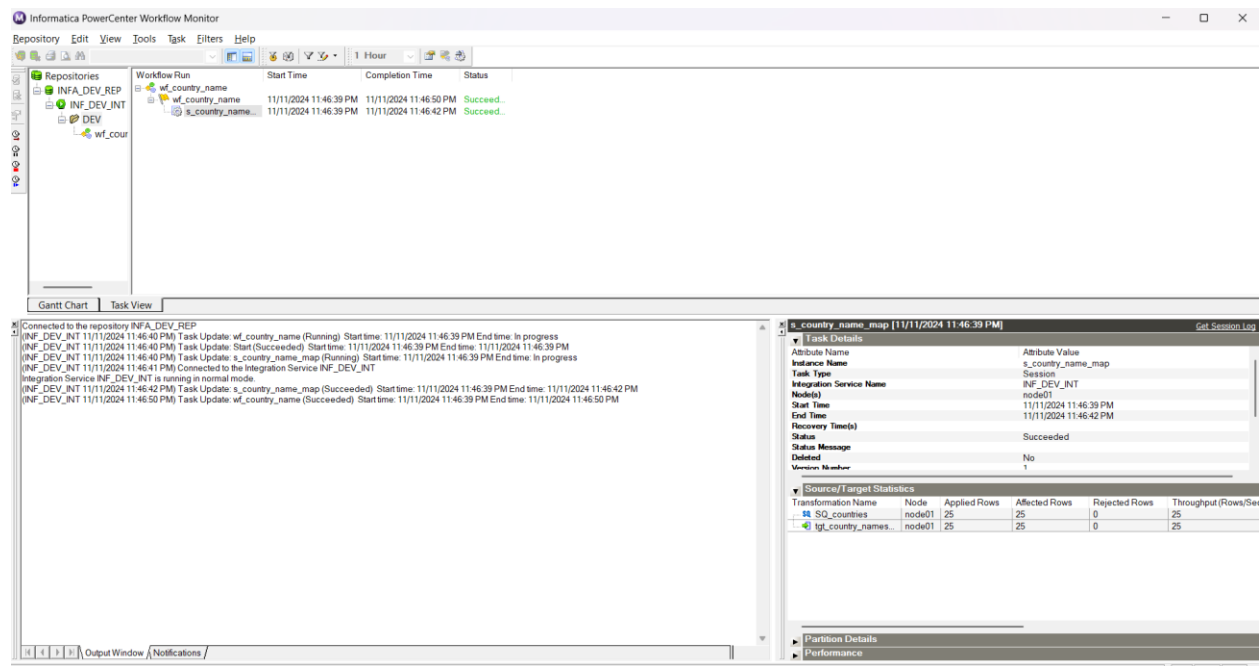
Mapping Created:

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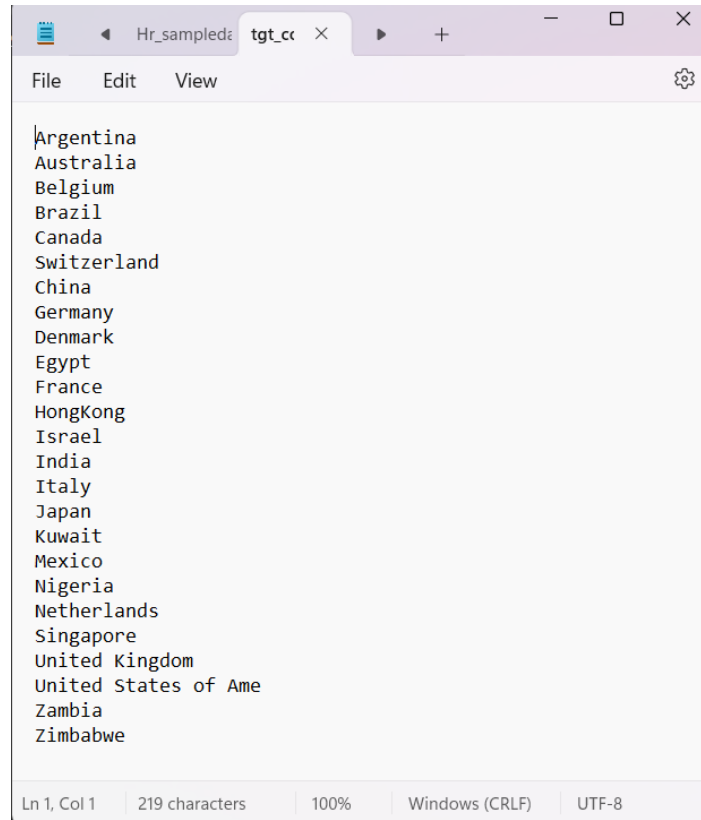
Workflow Monitor:



Output Target file:

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The screenshot shows a text editor window with a single tab titled 'tgt.cc'. The editor contains a list of 25 countries, each on a new line. The status bar at the bottom indicates the cursor is at line 1, column 1, the file is 219 characters long, the zoom is at 100%, the line endings are Windows (CRLF), and the encoding is UTF-8.

```
Argentina
Australia
Belgium
Brazil
Canada
Switzerland
China
Germany
Denmark
Egypt
France
HongKong
Israel
India
Italy
Japan
Kuwait
Mexico
Nigeria
Netherlands
Singapore
United Kingdom
United States of Ame
Zambia
Zimbabwe
```

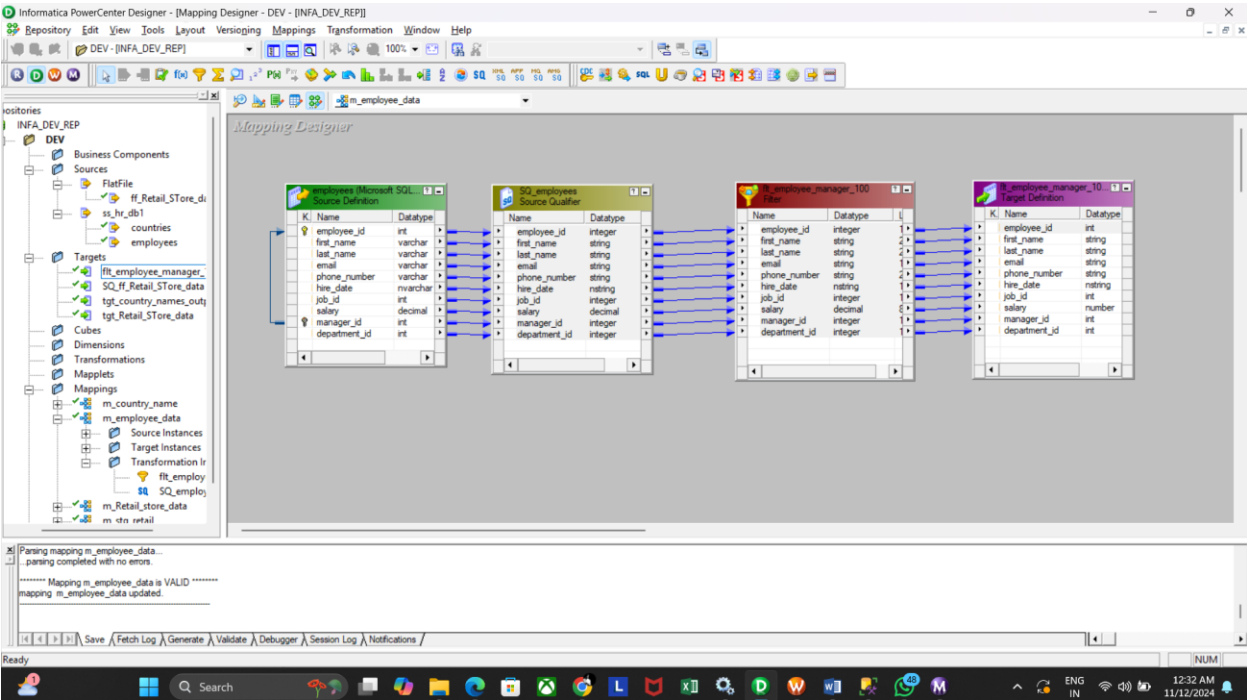
4. Create a file for manager_id = 100 using employee table .

- a) Use the employee table to generate a file with records where manager_id equals 100.**
- b) This task focuses on conditional data extraction.**

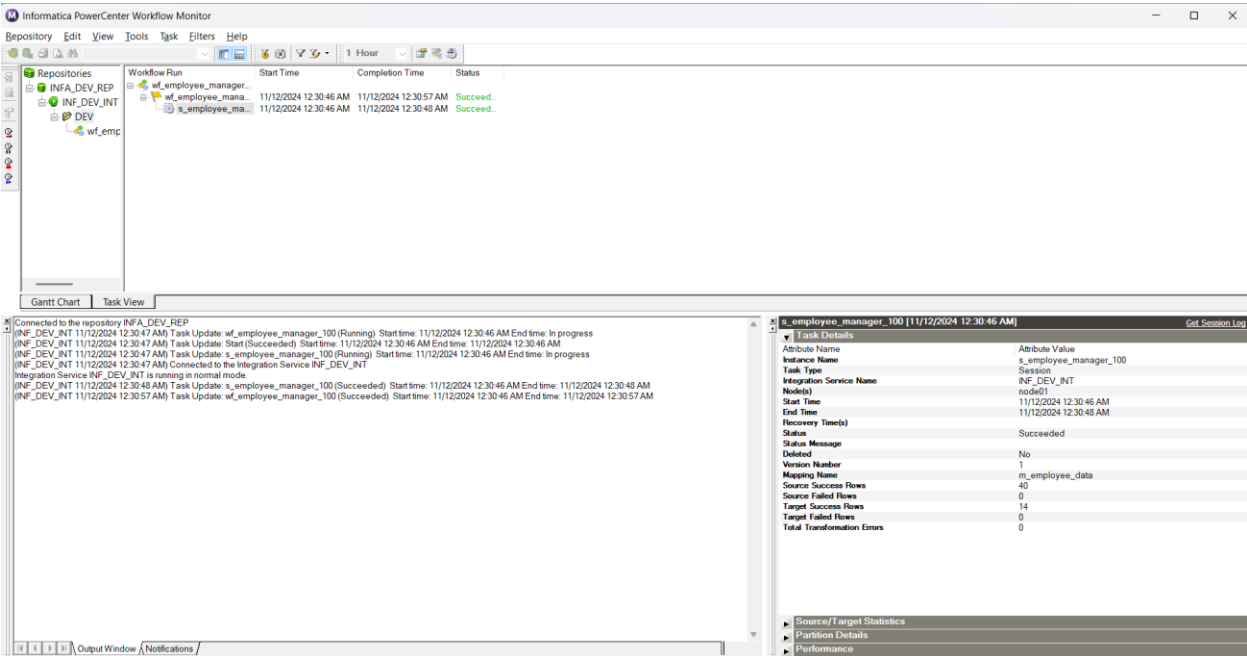
Mapping Created:

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Workflow Monitor:



Output:

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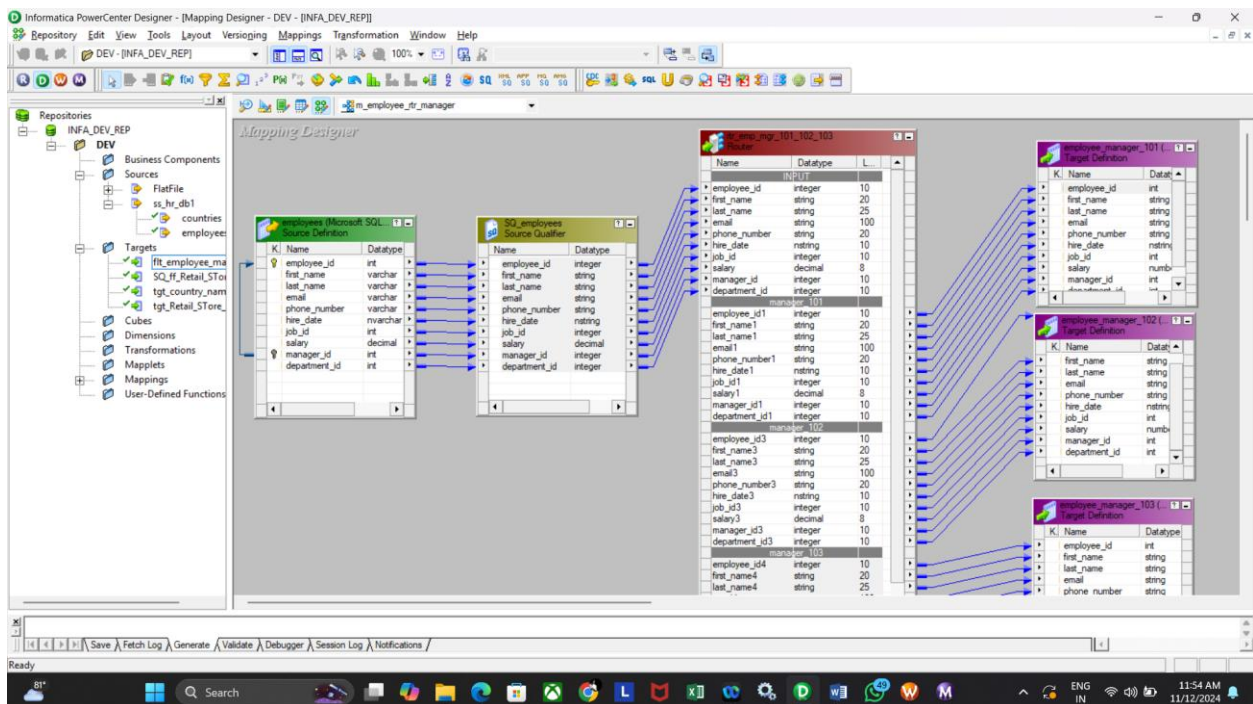
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```
tgt_country_  flt_en  x  +  -  x
File Edit View
101,Neena,Kochhar,neena.kochhar@sqltutorial.org,515.123.45
68,1989-09-21,5,17000.00,100,9
102,Lex,De Haan,lex.de
haan@sqltutorial.org,515.123.4569,1993-01-13,5,17000.00,10
0,9
114,Den,Raphaely,den.raphaely@sqltutorial.org,515.127.4561
,1994-12-07,14,11000.00,100,3
120,Matthew,Weiss,matthew.weiss@sqltutorial.org,650.123.12
34,1996-07-18,19,8000.00,100,5
121,Adam,Fripp,adam.fripp@sqltutorial.org,650.123.2234,199
7-04-10,19,8200.00,100,5
122,Payam,Kaufling,payam.kaufling@sqltutorial.org,650.123.
3234,1995-05-01,19,7900.00,100,5
123,Shanta,Vollman,shanta.vollman@sqltutorial.org,650.123.
4234,1997-10-10,19,6500.00,100,5
145,John,Russell,john.russell@sqltutorial.org,,1996-10-01,
15,14000.00,100,8
146,Karen,Partners,karen.partners@sqltutorial.org,,1997-01
-05,15,13500.00,100,8
176,Jonathon,Taylor,jonathon.taylor@sqltutorial.org,,1998-
03-24,16,8600.00,100,8
177,Jack,Livingston,jack.livingston@sqltutorial.org,,1998-
04-23,16,8400.00,100,8
178,Kimberely,Grant,kimberely.grant@sqltutorial.org,,1999-
05-24,16,7000.00,100,8
179,Charles,Johnson,charles.johnson@sqltutorial.org,,2000-
- - -
Ln 1, Col 1 1,194 characters 100% Windows (CRLF) UTF-8
```

5. Create 3 files for manager_id = 101, 102, 103 using employee table.

1. Create separate files from the employee table for each manager_id (101, 102, and 103).
2. This step reinforces skills in conditional extraction for specific IDs.

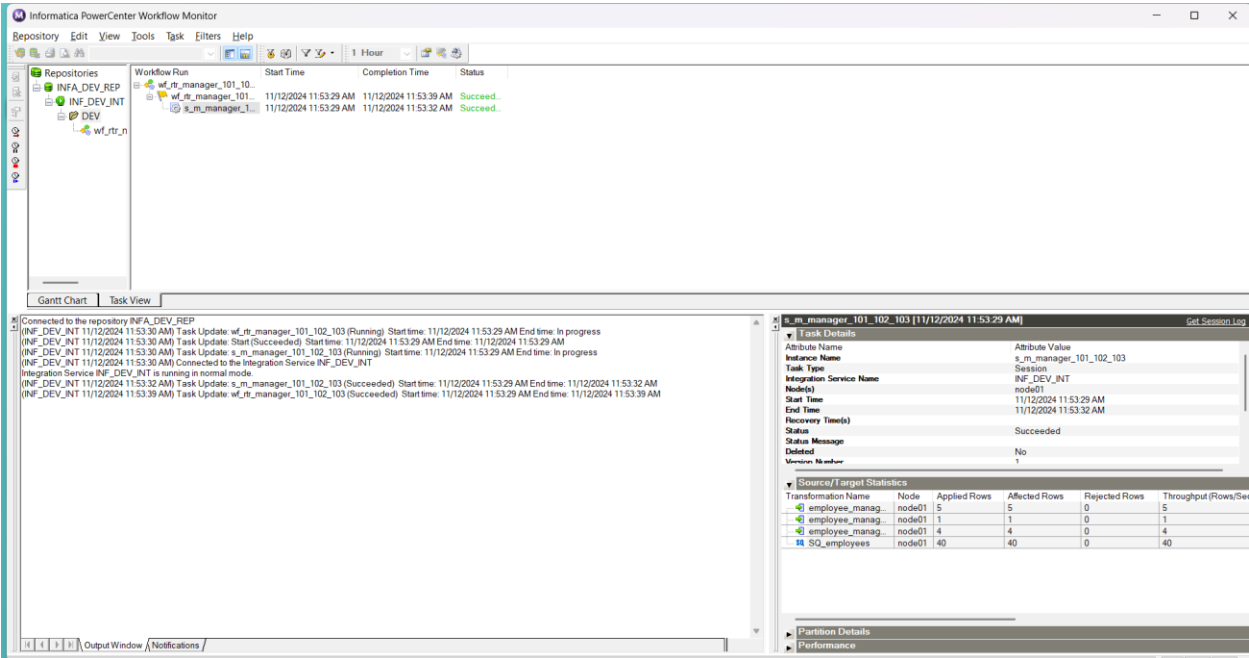
Mappig Created:



Workflow Monitor:

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Output Files:

```
#employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id
106,Nancy,Greenberg,nancy.greenberg@sqltutorial.org,515.124.4569,1994-08-17,7,12000.00,101,10
200,Jennifer,Whalen,jennifer.whelen@sqltutorial.org,515.123.4444,1987-09-17,3,4400.00,101,1
203,Susan,Mavris,susan.mavris@sqltutorial.org,515.123.7777,1994-06-07,8,6500.00,101,4
204,Hermann,Baer,hermann.baer@sqltutorial.org,515.123.8888,1994-06-07,12,10000.00,101,7
205,Shelley,Higgins,shelley.higgins@sqltutorial.org,515.123.8080,1994-06-07,2,12000.00,101,11
```

```
#employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id
103,Alexander,Hunold,alexander.hunold@sqltutorial.org,590.423.4567,1990-01-03,9,9000.00,102,6
```

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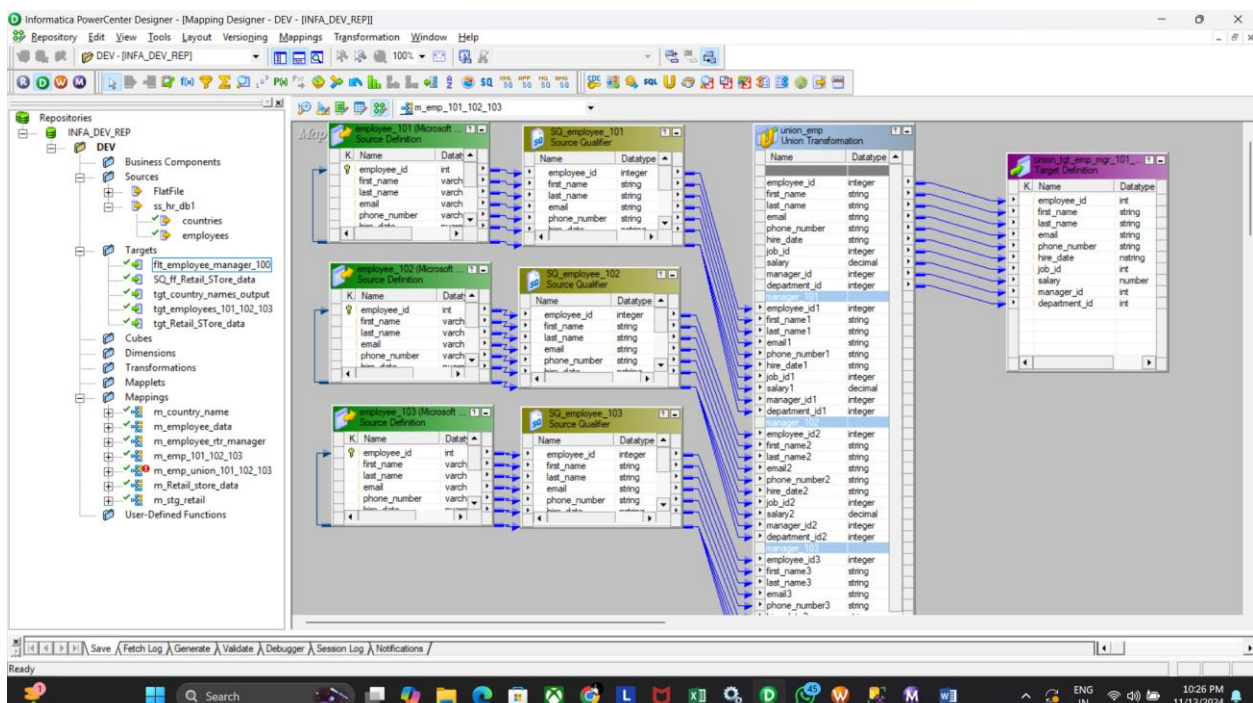
```
tgt_employee

#employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id
104,Bruce,Ernst,bruce.ernst@sqltutorial.org,590.423.4568,1991-05-21,9,6000.00,103,6
105,David,Austin,david.austin@sqltutorial.org,590.423.4569,1997-06-25,9,4800.00,103,6
106,Valli,Pataballa,valli.pataballa@sqltutorial.org,590.423.4560,1998-02-05,9,4800.00,103,6
107,Diana,Lorentz,diana.lorentz@sqltutorial.org,590.423.5567,1999-02-07,9,4200.00,103,6
```

6. Union the files created in Assignment 5 and create a single output file

1. Combine the three files created for manager_id 101, 102, and 103 into a single output file using a union operation.
2. This task will test your ability to use union transformations effectively in Informatica.

Mapping Created:



Workflow Monitor:

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The screenshot displays the Informatica PowerCenter Workflow Monitor interface. The top section shows a list of workflow runs with columns for Start Time, Completion Time, and Status. The 's_m_emp_union' workflow is highlighted as 'Running'. The bottom section provides a detailed view of the 's_m_emp_union' workflow instance, including task details, source/target statistics, and performance metrics.

Workflow Run	Start Time	Completion Time	Status
wf_union_emp_mgr_101...	11/12/2024 10:34:49 PM	In progress	Running
s_m_emp_union	11/12/2024 10:34:49 PM	11/12/2024 10:34:51 PM	Succeeded

Task Details	Attribute Value
Instance Name	s_m_emp_union
Task Type	Session
Integration Service Name	INF_DEV_INT
Node(s)	node01
Start Time	11/12/2024 10:34:49 PM
End Time	11/12/2024 10:34:51 PM
Recovery Time(s)	Succeeded
Status	Succeeded
Status Message	
Deleted	No
Version Number	1
Mapping Name	m_emp_101_102_103
Source Success Rows	10
Source Failed Rows	0
Target Success Rows	10
Target Failed Rows	0
Total Transformation Errors	0

Output:

```
#employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id
103,Alexander,Hunold,alexander.hunold@sqltutorial.org,590.423.4567,1990-01-03,9,9000.00,102,6
104,Bruce,Ernst,bruce.ernst@sqltutorial.org,590.423.4568,1991-05-21,9,6000.00,103,6
105,David,Austin,david.austin@sqltutorial.org,590.423.4569,1997-06-25,9,4800.00,103,6
106,Valli,Pataballa,valli.pataballa@sqltutorial.org,590.423.4560,1998-02-05,9,4800.00,103,6
107,Diana,Lorentz,diana.lorentz@sqltutorial.org,590.423.5567,1999-02-07,9,4200.00,103,6
108,Nancy,Greenberg,nancy.greenberg@sqltutorial.org,515.124.4569,1994-08-17,7,12000.00,101,10
200,Jennifer,Whalen,jennifer.whelen@sqltutorial.org,515.123.4444,1987-09-17,3,4400.00,101,1
203,Susan,Mavris,susan.mavris@sqltutorial.org,515.123.7777,1994-06-07,8,6500.00,101,4
204,Hermann,Baer,hermann.baer@sqltutorial.org,515.123.8888,1994-06-07,12,10000.00,101,7
205,Shelley,Higgins,shelley.higgins@sqltutorial.org,515.123.8080,1994-06-07,2,12000.00,101,11
```