

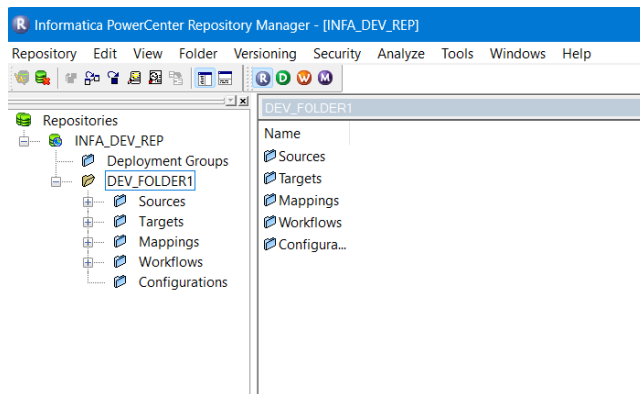
Weekly Assignment: Informatica Retail Store Data Processing

- Ishwarya D

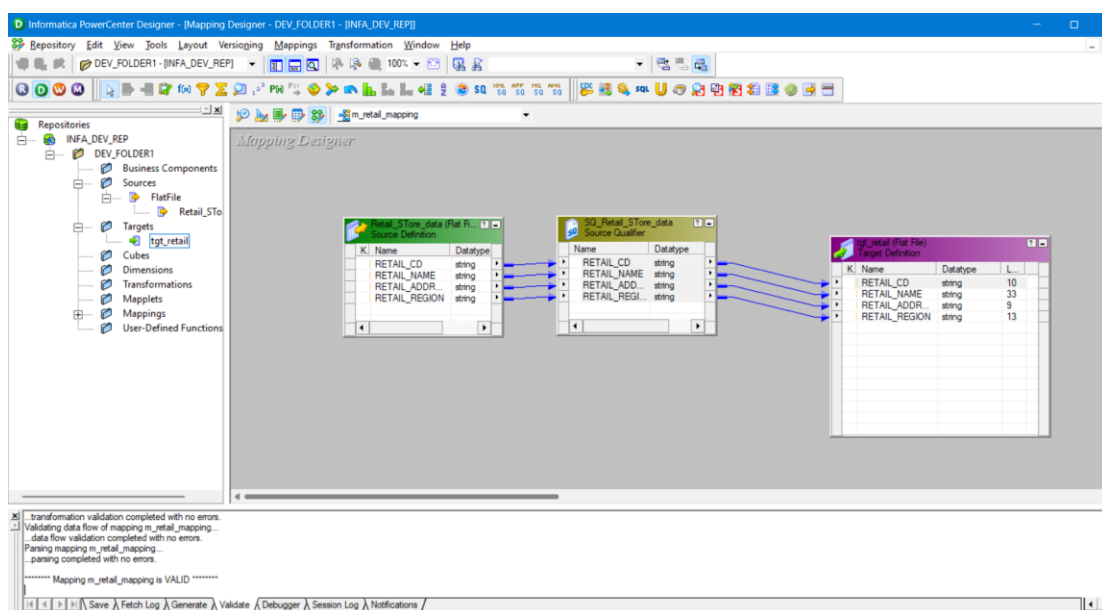
1. Retail_store file load into another file

- 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

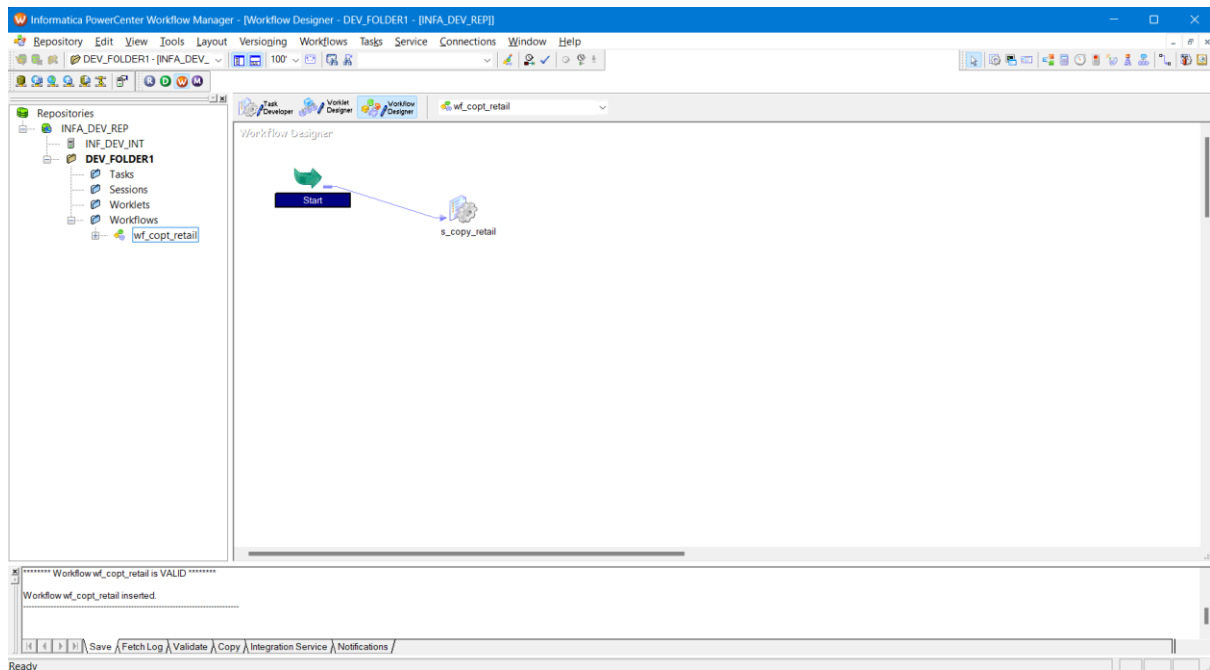
Step 1: created the folder in Repository manager



Step 2: Imported source and target data into designers and mapped them. Validated the mapping



Step 3: Ran the workflow

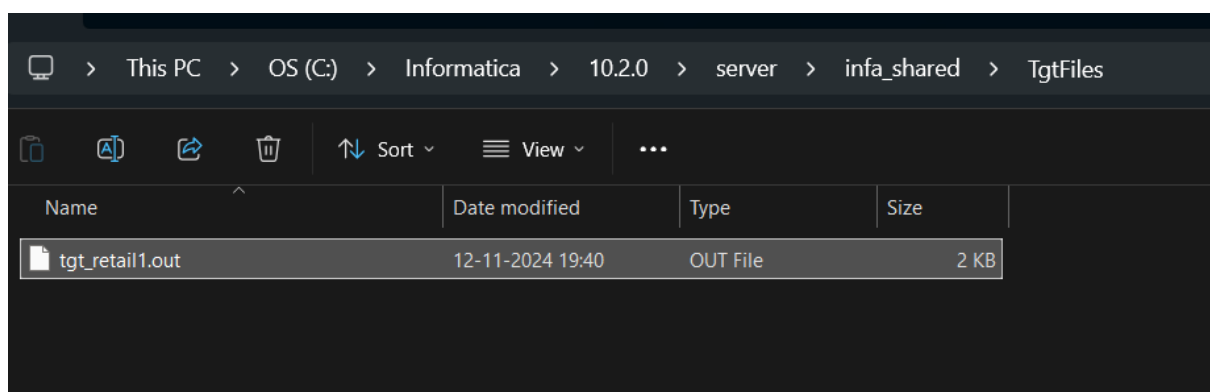


Step 4: Checked whether the workflow executed successfully via the workflow monitor

The screenshot shows the Informatica PowerCenter Workflow Monitor interface. The left pane displays the repository structure with 'wfc_copt_retail' selected under 'DEV_FOLDER1'. The main pane shows a table with the workflow execution status. The table has columns for Name, Duration, Status, and a timeline from 7:00pm to 5:00pm. The workflow 'wfc_copt_retail' is shown as 'Succeeded'.

Name	Duration	Status	7:00pm	8:00pm	9:00pm	10:00pm	11:00pm	12:00am	1:00am	2:00am	3:00am	4:00am	5:00am	6:00am	7:00am	8:00am	9:00am	10:00am	11:00am	12:00pm	1:00pm	2:00pm	3:00pm	4:00pm	5:00pm
INFA_DEV_REP	02:55:53	Connected																							
DEV_FOLDER1	00:00:19	Succeeded																							
wfc_copt_retail	00:00:03	Succeeded																							

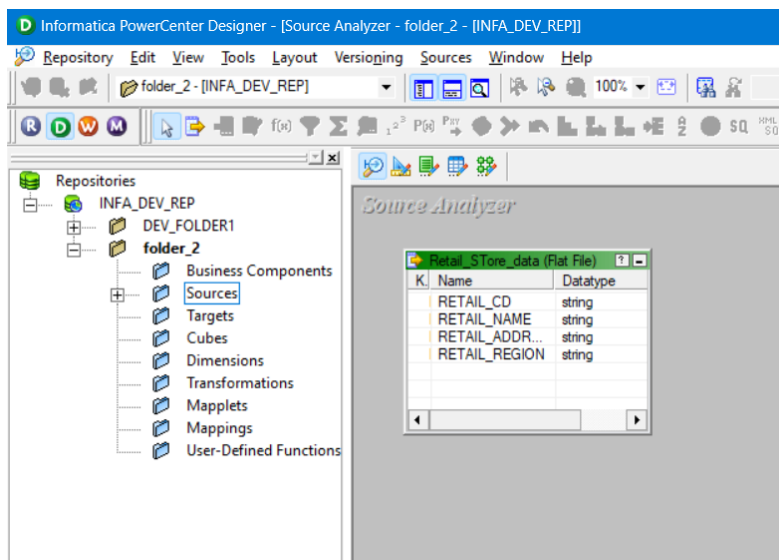
Output file is generated



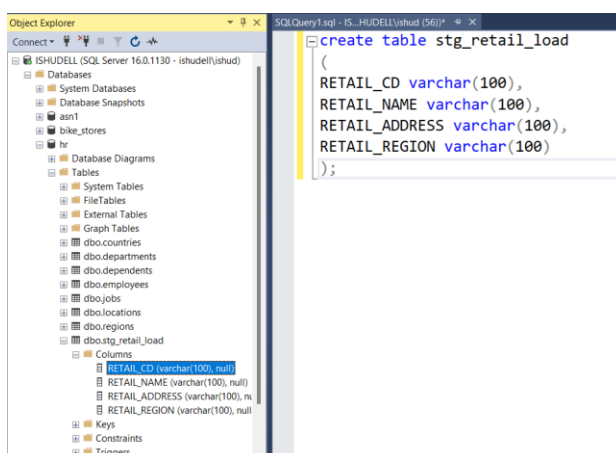
2. Retail_store file load into table stg_retail

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

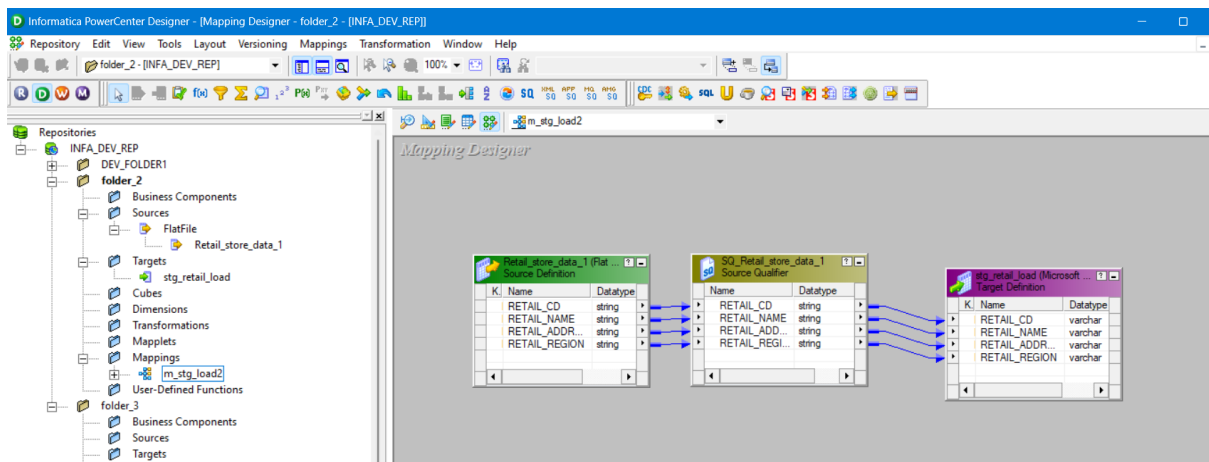
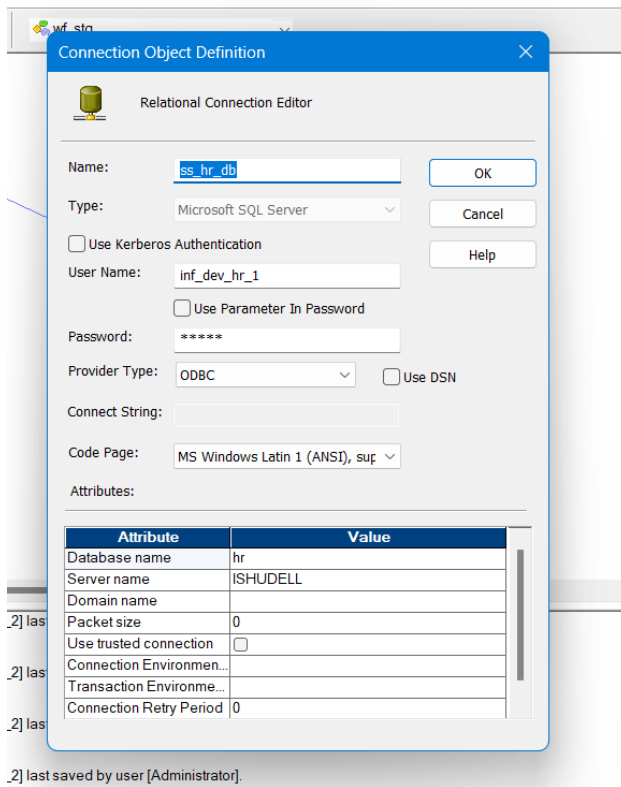
Step 1: Load source data



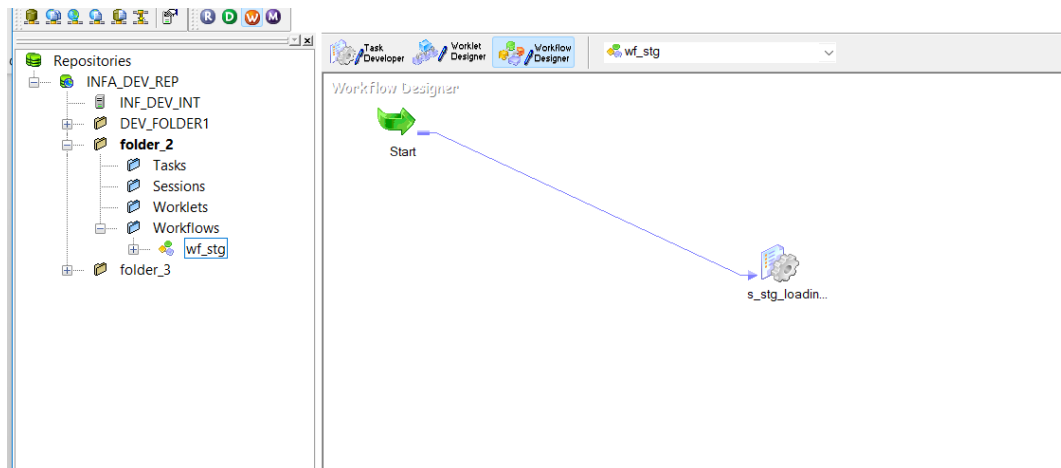
Step 2: create ddl for target data source



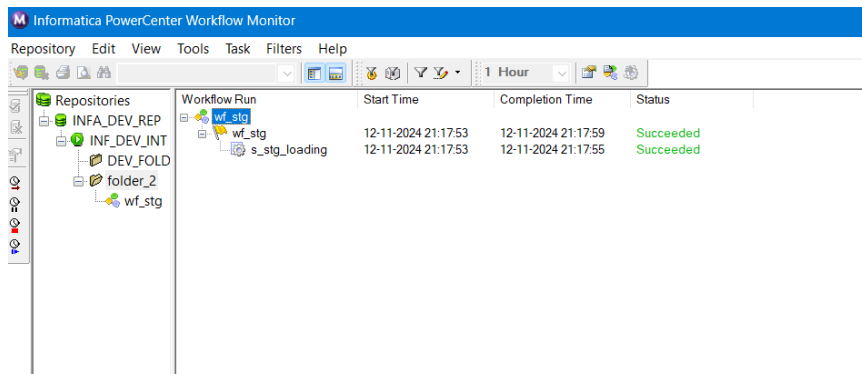
Step 3: create connections and mapping



Step 4: create the workflow

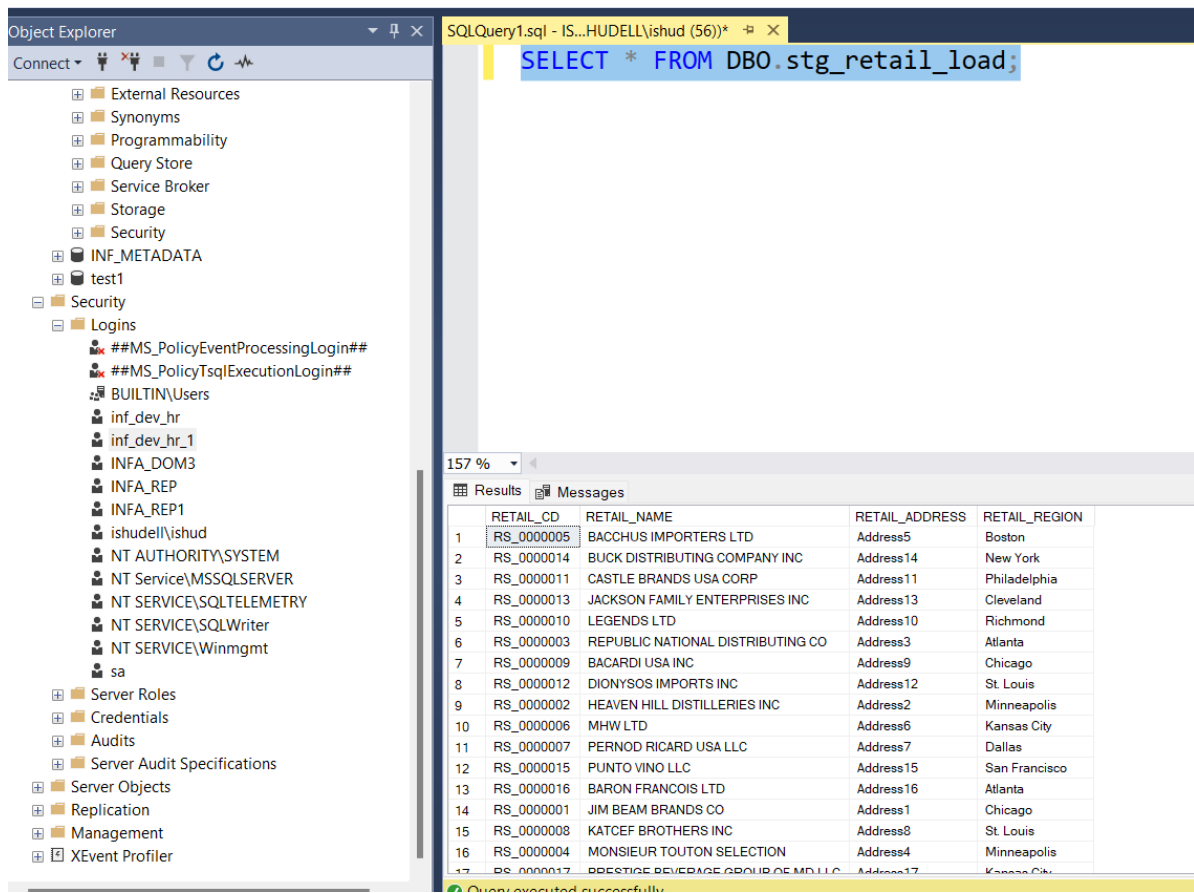


Step 5: run the workflow



The screenshot shows the Informatica PowerCenter Workflow Monitor interface. The top menu bar includes Repository, Edit, View, Tools, Task, Filters, and Help. Below the menu is a toolbar with various icons. The main area is divided into two panes. The left pane, titled 'Repositories', shows a tree structure with folders: INFA_DEV_REP, INF_DEV_INT, DEV_FOLD, and folder_2. Under folder_2, there is a folder named wf_stg. The right pane, titled 'Workflow Run', displays a table of workflow runs. The table has columns for Start Time, Completion Time, and Status. Two runs are listed, both with a status of 'Succeeded'.

Workflow Run	Start Time	Completion Time	Status
wf_stg	12-11-2024 21:17:53	12-11-2024 21:17:59	Succeeded
s_stg_loading	12-11-2024 21:17:53	12-11-2024 21:17:55	Succeeded



The screenshot shows the SQL Developer interface. The left pane, titled 'Object Explorer', displays a tree structure of database objects. The right pane shows a SQL query window with the following query:

```
SELECT * FROM DBO.stg_retail_load;
```

Below the query window, the 'Results' pane displays a table with 17 rows and 4 columns: RETAIL_CD, RETAIL_NAME, RETAIL_ADDRESS, and RETAIL_REGION. The first row is highlighted.

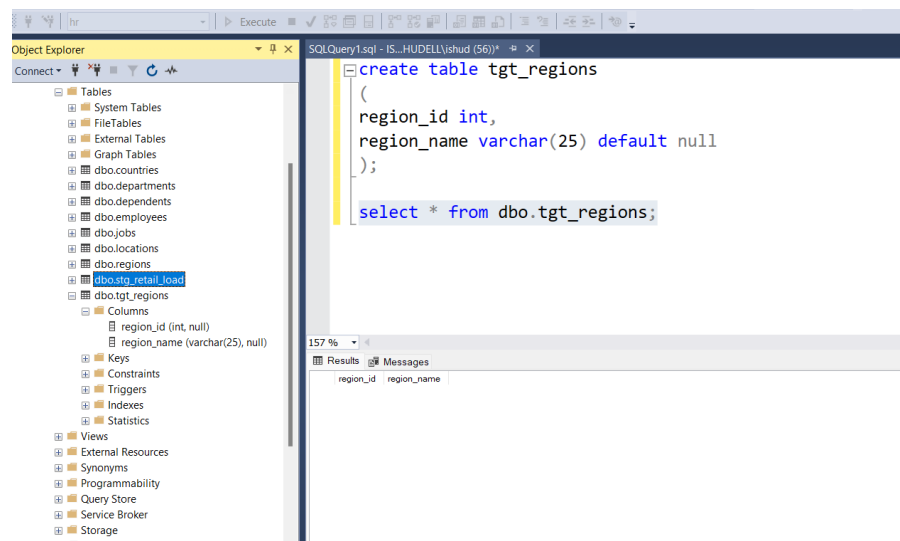
RETAIL_CD	RETAIL_NAME	RETAIL_ADDRESS	RETAIL_REGION
RS_0000005	BACCHUS IMPORTERS LTD	Address5	Boston
RS_0000014	BUCK DISTRIBUTING COMPANY INC	Address14	New York
RS_0000011	CASTLE BRANDS USA CORP	Address11	Philadelphia
RS_0000013	JACKSON FAMILY ENTERPRISES INC	Address13	Cleveland
RS_0000010	LEGENDS LTD	Address10	Richmond
RS_0000003	REPUBLIC NATIONAL DISTRIBUTING CO	Address3	Atlanta
RS_0000009	BACARDI USA INC	Address9	Chicago
RS_0000012	DIONYSOS IMPORTS INC	Address12	St. Louis
RS_0000002	HEAVEN HILL DISTILLERIES INC	Address2	Minneapolis
RS_0000006	MHW LTD	Address6	Kansas City
RS_0000007	PERNOD RICARD USA LLC	Address7	Dallas
RS_0000015	PUNTO VINO LLC	Address15	San Francisco
RS_0000016	BARON FRANCOIS LTD	Address16	Atlanta
RS_0000001	JIM BEAM BRANDS CO	Address1	Chicago
RS_0000008	KATCEF BROTHERS INC	Address8	St. Louis
RS_0000004	MONSIEUR TOUTON SELECTION	Address4	Minneapolis
RS_0000017	PRESTIGE BEVERAGE GROUP OF MD LLC	Address17	Kansas City

3. Create a file of countrynames using country table

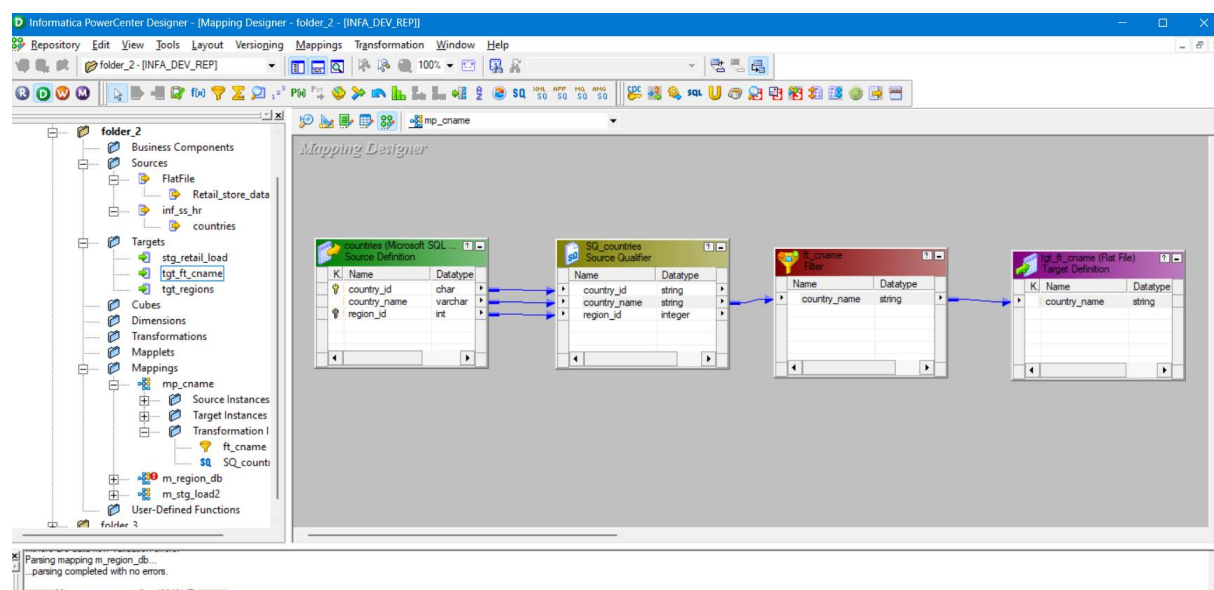
- Extract data from the country table to create a file containing only country names.
- This exercise will help you practice extracting specific columns from a table.

Step 1:

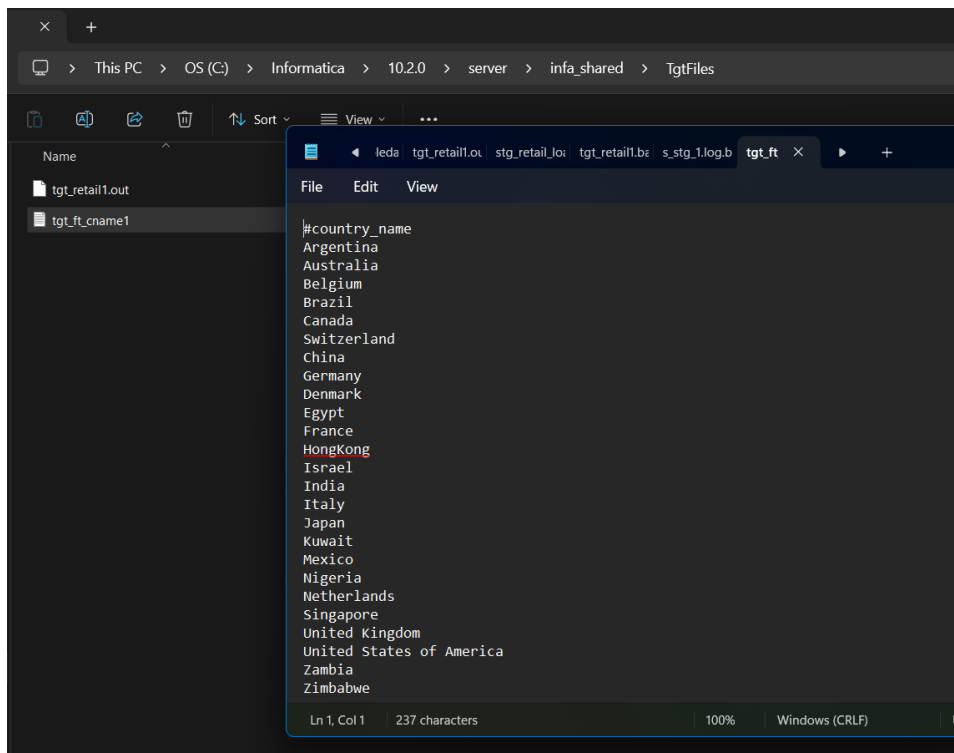
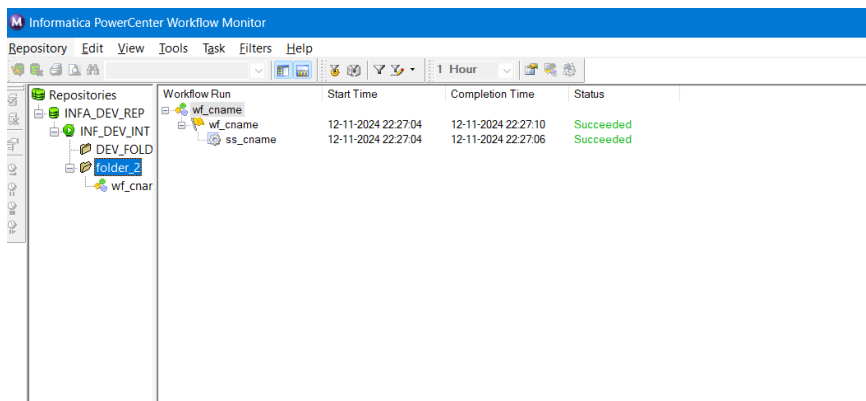
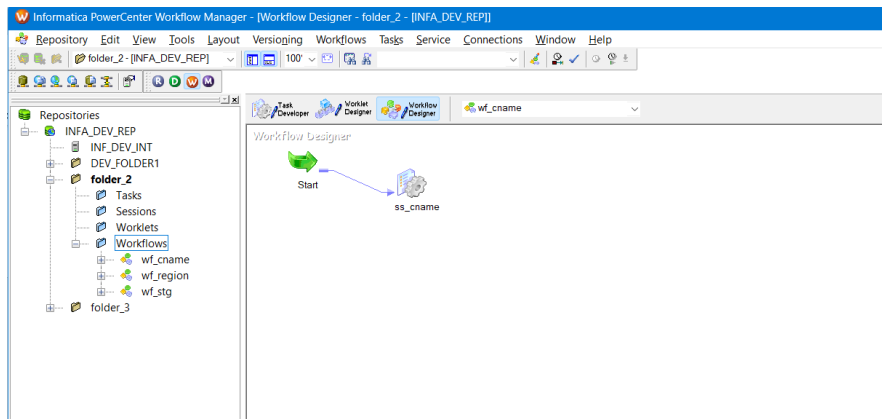
Create table “tgt_regions”



Step 2: import countries table and create mappings



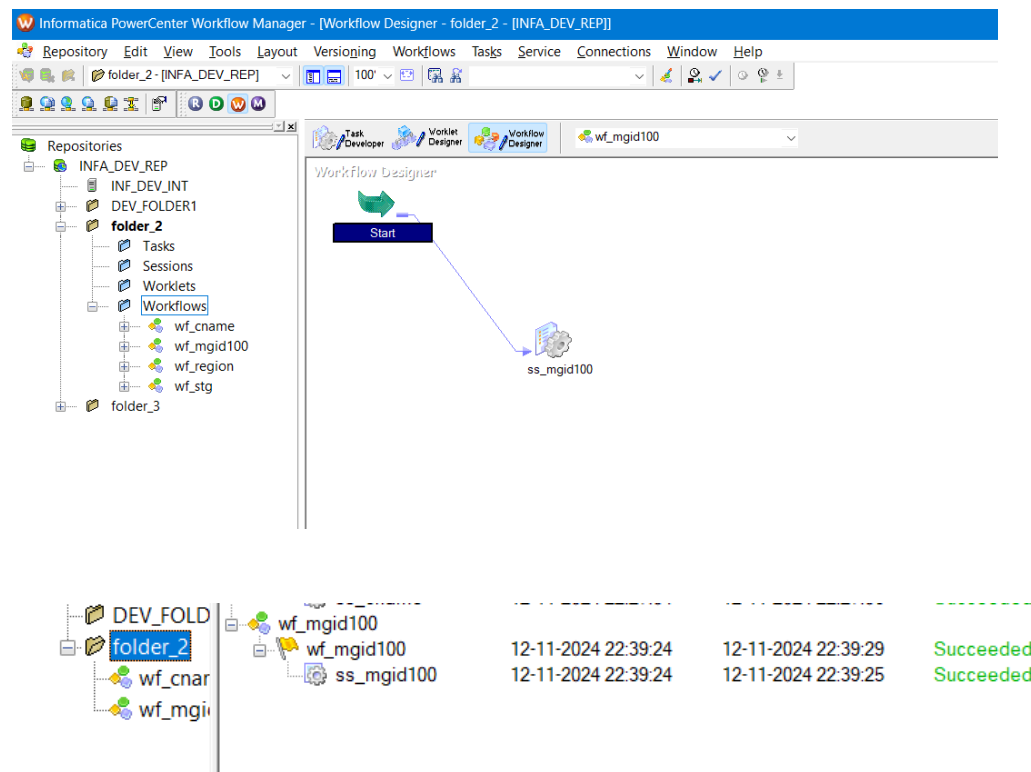
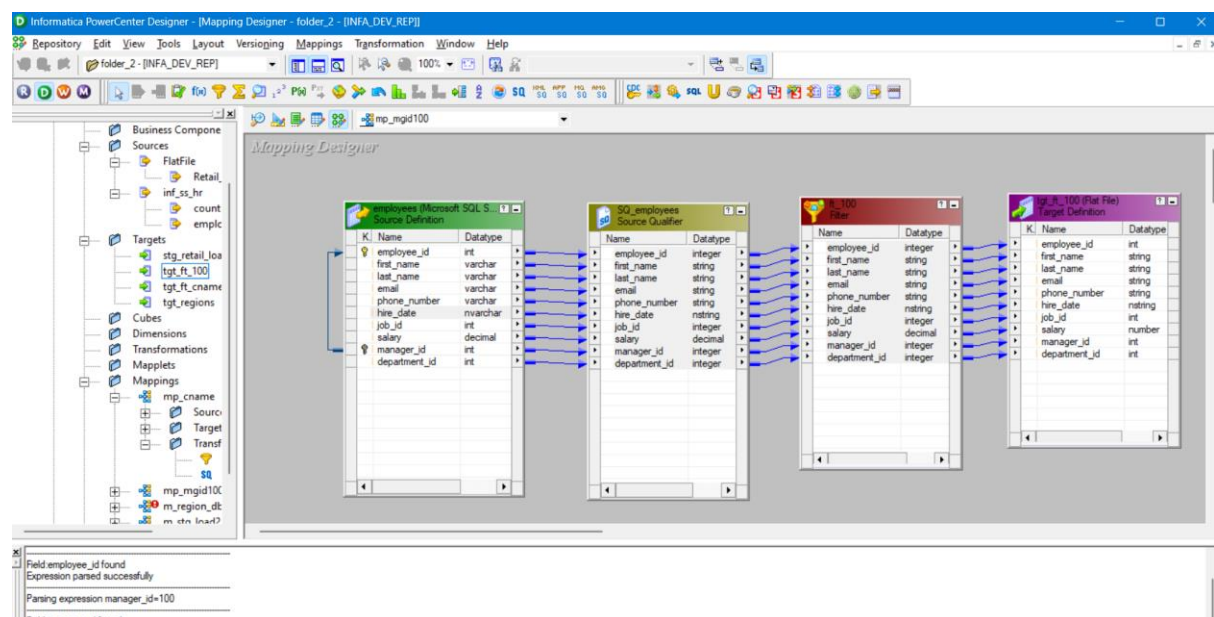
Step 3: Create and run the workflow



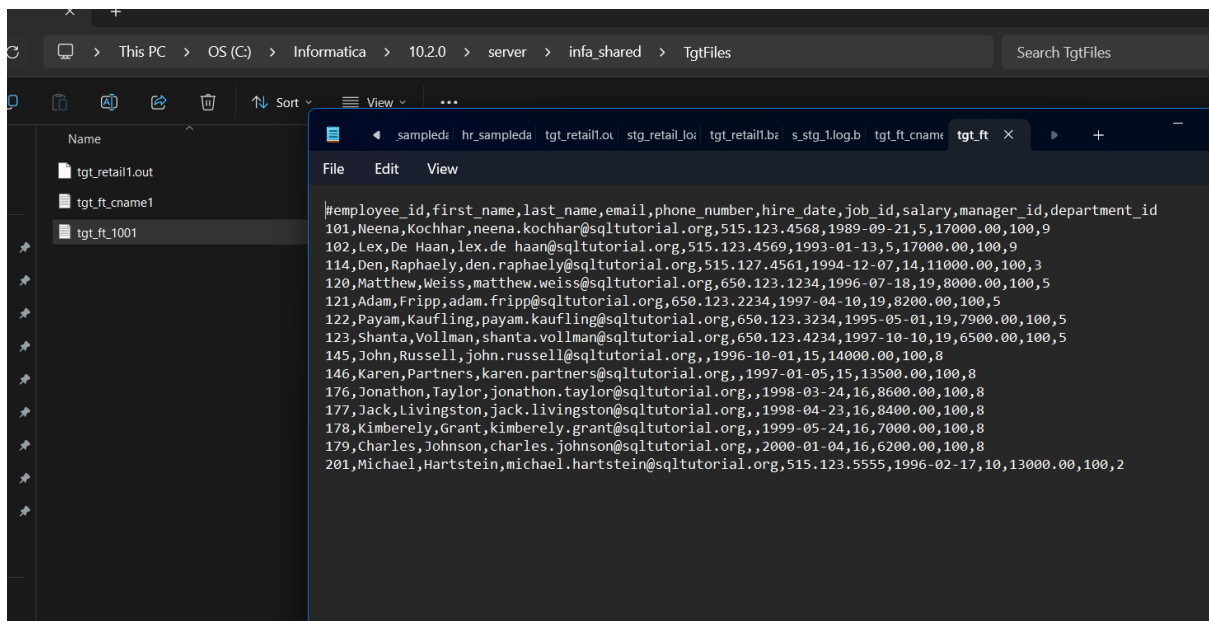
4. Create a file for manager_id = 100 using employee table

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

Design:

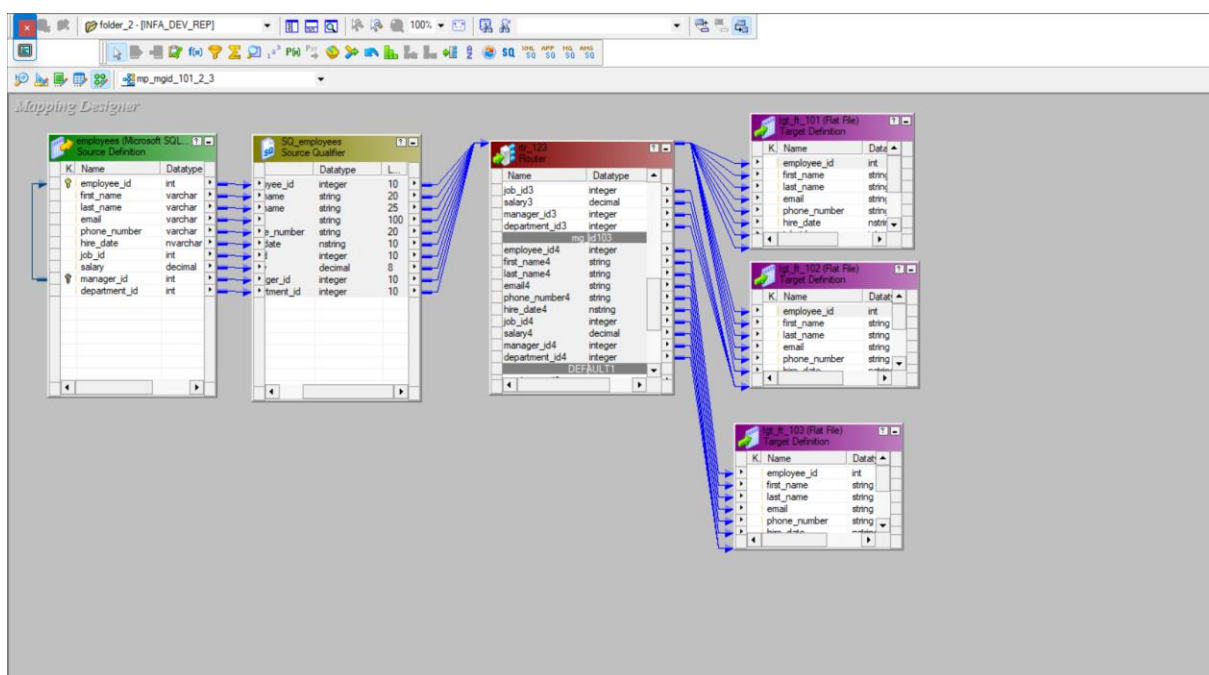


DEV_FOLD	wf_mgid100	12-11-2024 22:39:24	12-11-2024 22:39:29	Succeeded
folder_2	wf_mgid100	12-11-2024 22:39:24	12-11-2024 22:39:25	Succeeded
wf_cnar	ss_mgid100			
wf_mgi				



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

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



Edit Transformations

Transformation | Ports | Properties | Groups | Metadata Extensions

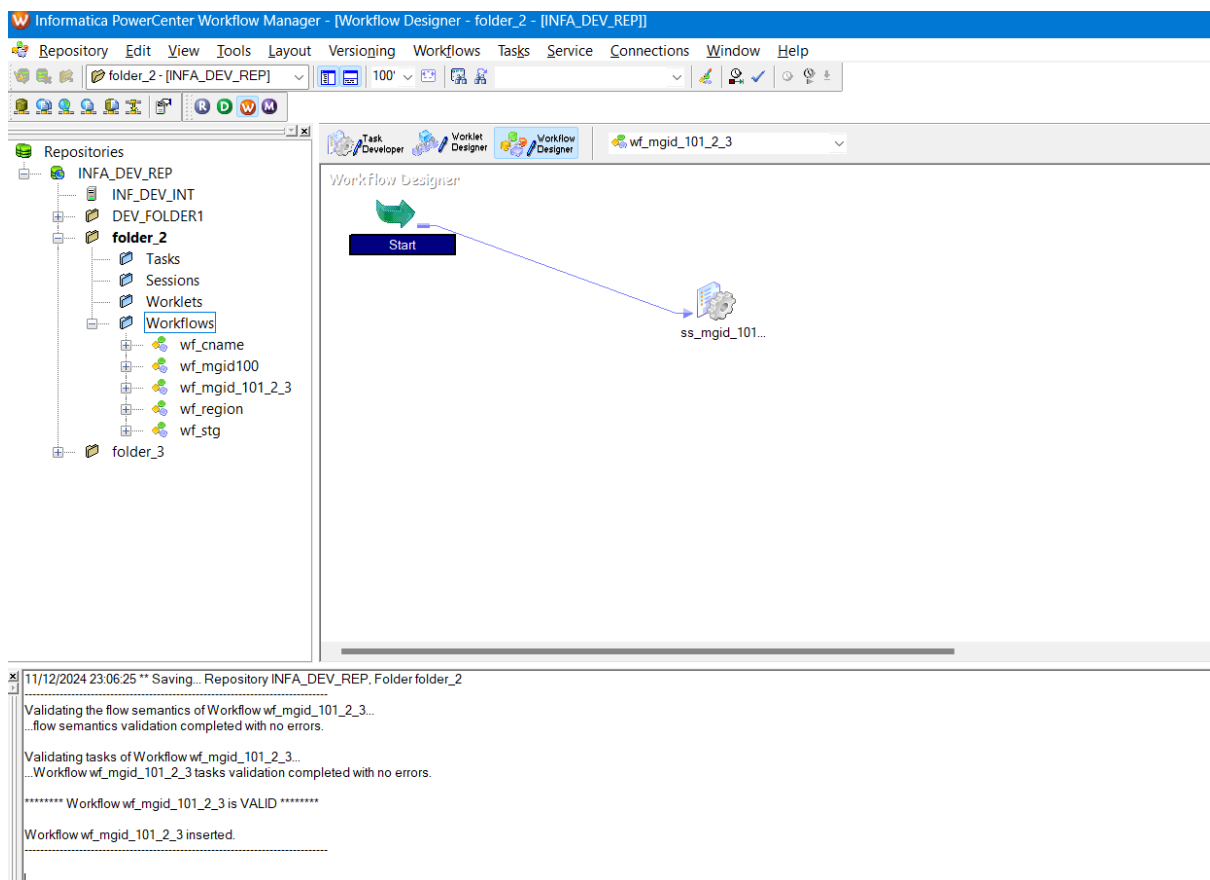
Select transformation: 📁 rtr_123

Transformation type: Router

Group Name	Group Filter Condition
mgid_101	manager_id=101
mgid_102	manager_id=102
mg_id103	manager_id=103
DEFAULT1	

Description: Path for the data when none of the group conditions are satisfied.

OK Cancel Apply Help



Informatica PowerCenter Workflow Monitor

Repository Edit View Tools Task Filters Help

1 Hour

Repositories	Workflow Run	Start Time	Completion Time	Status
INFA_DEV_REP	wf_mgid_101_2_3			
INF_DEV_INT	wf_mgid_101_2_3	12-11-2024 23:06:35	12-11-2024 23:06:41	Succeeded
DEV_FOLD	ss_mgid_101_2_3	12-11-2024 23:06:35	12-11-2024 23:06:37	Succeeded
folder_2				
wf_mgi				

TgtFiles

File Edit View

```
#employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id
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
```

tgt_ft_102.txt

File Edit View

```
#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
```

tgt_ft_103.txt

File Edit View

```
#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
```

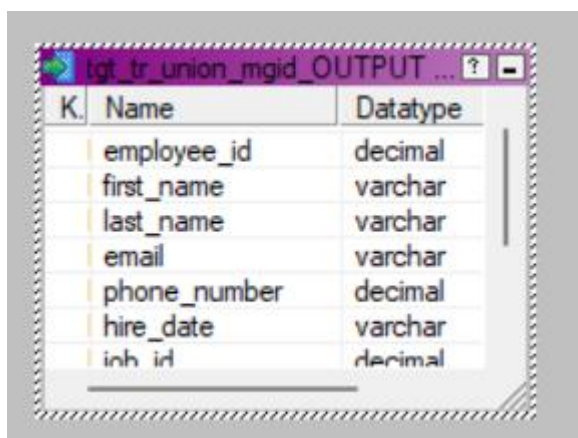
6. Union the files created in Assignment 5 and create a single output file

- Combine the three files created for manager_id 101, 102, and 103 into a single

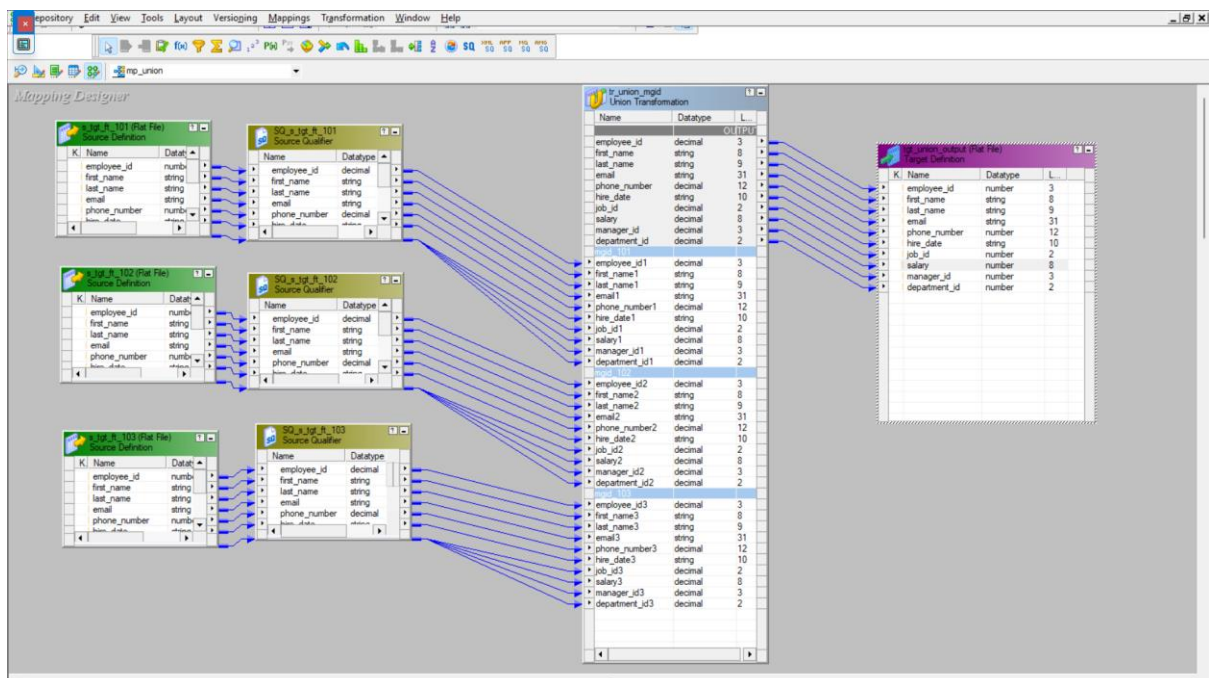
output file using a union operation.

- This task will test your ability to use union transformations effectively in Informatica.

Create union file's copy in target as well



K.	Name	Datatype
	employee_id	decimal
	first_name	varchar
	last_name	varchar
	email	varchar
	phone_number	decimal
	hire_date	varchar
	inh_id	decimal



Informatica PowerCenter Workflow Manager - [Workflow Designer - folder_2 - [INFA_DEV_REP]]

Repository Edit View Tools Layout Versioning Workflows Tasks Service Connections Window Help

folder_2 - [INFA_DEV_REP] 100'

Repositories

- INFA_DEV_REP
 - INF_DEV_INT
 - DEV_FOLDER1
 - folder_2
 - Tasks
 - Sessions
 - Worklets
 - Workflows
 - wf_cname
 - wf_mgid100
 - wf_mgid_101_2_3
 - wf_region
 - wf_stg
 - wf_union
 - folder_3

Workflow Designer

Task Developer Worklet Designer Workflow Designer wf_union

Workflow Designer

Start

ss_union

11/12/2024 23:26:18 ** Saving... Repository INFA_DEV_REP, Folder folder_2

Validating the flow semantics of Workflow wf_union...
...flow semantics validation completed with no errors.

Validating tasks of Workflow wf_union...
...Workflow wf_union tasks validation completed with no errors.

***** Workflow wf_union is VALID *****

Workflow wf_union inserted.

Informatica PowerCenter Workflow Monitor

Repository Edit View Tools Task Filters Help

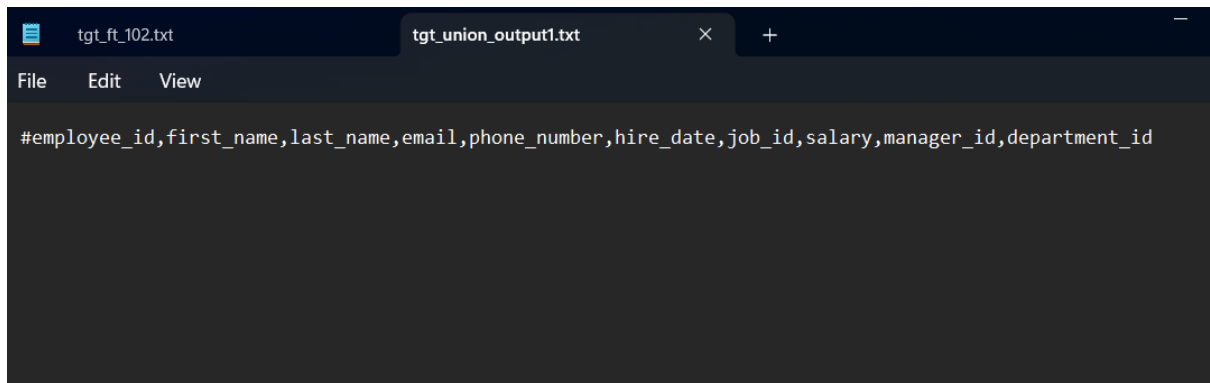
1 Hour

Repositories

- INFA_DEV_REP
 - INF_DEV_INT
 - DEV_FOLD
 - folder_2
 - wf_unio

Workflow Run

	Start Time	Completion Time	Status
wf_union1			
wf_union1	12-11-2024 23:42:54	12-11-2024 23:42:56	Succeeded
ss_union1	12-11-2024 23:42:54	12-11-2024 23:42:55	Succeeded



The image shows a text editor window with a dark theme. The title bar at the top contains two tabs: 'tgt_ft_102.txt' and 'tgt_union_output1.txt'. The 'tgt_union_output1.txt' tab is active. Below the tabs is a menu bar with 'File', 'Edit', and 'View'. The main text area contains a single line of text: '#employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id'.

```
#employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,manager_id,department_id
```