## **Database Creation**

In [12]: # Inserting data into MealInfo table group

Database "fooddemand" is created and all processed data files are loaded into the database. For this, PostgreSQL is used.

```
In [2]: # Import libraries
         import psycopg2
         import pandas as pd
In [17]: # Establish a connection to the Postgres database
         conn = psycopg2.connect(
         host="localhost",
         database="fooddemand",
         user="mahesh",
         password="secret"
In [18]: # Check connection
         print(conn)
         <connection object at 0x7f1b49bc1a40; dsn: 'user=mahesh password=xxx dbname=fooddemand h</pre>
         ost=localhost', closed: 0>
In [19]: # Create Cursor
         mycursor = conn.cursor()
 In [6]: # Create new table FulfilmentCenterInfo
         mycursor.execute("""CREATE TABLE FulfilmentCenterInfo (center_id INT, city_code INT, \
                          region_code INT, center_type VARCHAR, op_area FLOAT)""")
 In [7]: # Create new table MealInfo
         mycursor.execute("""CREATE TABLE MealInfo (meal_id INT, category VARCHAR, cuisine VARCHA
 In [8]: # Create new table Train
         mycursor.execute("""CREATE TABLE Train (id INT, week INT, center_id INT, meal_id INT, ch
                         base_price FLOAT, emailer_for_promotion INT, homepage_featured INT, num_
 In [9]: # Create new table Test
         mycursor.execute("""CREATE TABLE Test (id INT, week INT, center_id INT, meal_id INT, che
                         base_price FLOAT, emailer_for_promotion INT, homepage_featured INT)""")
         # Inserting data into FulfilmentCenterInfo table group
In [11]:
         with open('../fulfilment_center_info.csv', 'r') as file:
             print(file)
             # Build the SQL statement to copy data from the CSV file into the table
             sql = f"COPY FulfilmentCenterInfo FROM STDIN WITH (FORMAT csv, HEADER true, DELIMITE
             # Execute the SQL statement
             mycursor.copy_expert(sql, file)
             # Commit the changes
             conn.commit()
         <_io.TextIOWrapper name='../fulfilment_center_info.csv' mode='r' encoding='UTF-8'>
```

```
print(file)
             # Build the SQL statement to copy data from the CSV file into the table
             sql = f"COPY Mealinfo FROM STDIN WITH (FORMAT csv, HEADER true, DELIMITER ',')"
             # Execute the SQL statement
             mycursor.copy_expert(sql, file)
             # Commit the changes
             conn.commit()
         # Inserting data into Train table group
In [13]:
         with open('../train.csv', 'r') as file:
             print(file)
             # Build the SQL statement to copy data from the CSV file into the table
             sql = f"COPY Train FROM STDIN WITH (FORMAT csv, HEADER true, DELIMITER ',')"
             # Execute the SQL statement
             mycursor.copy_expert(sql, file)
             # Commit the changes
             conn.commit()
         <_io.TextIOWrapper name='../train.csv' mode='r' encoding='UTF-8'>
In [20]: # Inserting data into Test table group
         with open('../test.csv', 'r') as file:
             print(file)
             # Build the SQL statement to copy data from the CSV file into the table
             sql = f"COPY Test FROM STDIN WITH (FORMAT csv, HEADER true, DELIMITER ',')"
             # Execute the SQL statement
             mycursor.copy_expert(sql, file)
             # Commit the changes
             conn.commit()
         <_io.TextIOWrapper name='../test.csv' mode='r' encoding='UTF-8'>
In [21]: # Close the cursor and the connection
         mycursor.close()
         conn.commit()
 In [ ]:
```

with open('../meal\_info.csv', 'r') as file: