## **SQL Queries:**

```
-- SQL Query to create and import data from csv files:
-- 0. Create a database
CREATE DATABASE ccdb;
-- 1. Create cc detail table
CREATE TABLE cc_detail (
  Client Num INT,
  Card_Category VARCHAR(20),
  Annual Fees INT,
  Activation_30_Days INT,
  Customer Acq Cost INT,
  Week_Start_Date DATE,
  Week Num VARCHAR(20),
  Qtr VARCHAR(10),
  current_year INT,
  Credit_Limit DECIMAL(10,2),
  Total_Revolving_Bal INT,
  Total Trans Amt INT,
  Total Trans Ct INT,
  Avg_Utilization_Ratio DECIMAL(10,3),
  Use Chip VARCHAR(10),
  Exp_Type VARCHAR(50),
  Interest Earned DECIMAL(10,3),
  Delinquent_Acc VARCHAR(5)
);
-- 2. Create cc_detail table
CREATE TABLE cust_detail (
  Client Num INT,
  Customer_Age INT,
  Gender VARCHAR(5),
  Dependent_Count INT,
  Education_Level VARCHAR(50),
  Marital_Status VARCHAR(20),
  State_cd VARCHAR(50),
  Zipcode VARCHAR(20),
```

Car\_Owner VARCHAR(5), House\_Owner VARCHAR(5), Personal Loan VARCHAR(5),

Contact VARCHAR(50),

Customer\_Job VARCHAR(50),

```
Income INT,
  Cust_Satisfaction_Score INT
);
-- 3. Copy csv data into SQL (remember to update the file name and file location in below query)
-- copy cc_detail table
COPY cc_detail
FROM 'D:\credit_card.csv'
DELIMITER ','
CSV HEADER:
-- copy cust_detail table
COPY cust_detail
FROM 'D:\customer.csv'
DELIMITER ','
CSV HEADER;
-- If you are getting below error, then use the below point:
 -- ERROR: date/time field value out of range: "0"
 -- HINT: Perhaps you need a different "datestyle" setting.
-- Check the Data in Your CSV File: Ensure date column values are formatted correctly and are in
a valid format that PostgreSQL can recognize (e.g., YYYY-MM-DD). And correct any incorrect
or missing date values in the CSV file.
-- Update the Datestyle Setting: Set the datestyle explicitly for your session using the following
command:
SET datestyle TO 'ISO, DMY';
-- Now, try to COPY the csv files!
-- 4. Insert additional data into SQL, using same COPY function
-- copy additional data (week-53) in cc_detail table
COPY cc_detail
FROM 'D:\cc add.csv'
DELIMITER ','
```

## CSV HEADER;

-- copy additional data (week-53) in cust\_detail table (remember to update the file name and file location in below query)

```
COPY cust_detail
FROM 'D:\cust_add.csv'
DELIMITER ','
CSV HEADER;
```

## **DAX Queries:**

```
AgeGroup = SWITCH(
TRUE(),
'public cust detail'[customer age] < 30, "20-30",
'public cust_detail'[customer_age] >= 30 && 'public cust_detail'[customer_age] < 40, "30-40",
'public cust_detail'[customer_age] >= 40 && 'public cust_detail'[customer_age] < 50, "40-50",
'public cust detail'[customer age] >= 50 && 'public cust detail'[customer age] < 60, "50-60",
'public cust detail'[customer age] >= 60, "60+",
"unknown"
IncomeGroup = SWITCH(
TRUE(),
'public cust_detail'[income] < 35000, "Low",
'public cust detail'[income] >= 35000 && 'public cust detail'[income] <70000, "Med",
'public cust detail'[income] >= 70000, "High",
"unknown"
eek_num2 = WEEKNUM('public cc_detail'[week_start_date])
Revenue = 'public cc_detail'[annual_fees] + 'public cc_detail'[total_trans_amt] + 'public
cc detail'[interest earned]
Current week Reveneue = CALCULATE(
SUM('public cc_detail'[Revenue]),
FILTER(
ALL('public cc_detail'),
'public cc_detail'[week_num2] = MAX('public cc_detail'[week_num2])))
Previous_week_Reveneue = CALCULATE(
SUM('public cc_detail'[Revenue]),
FILTER(
ALL('public cc detail'),
'public cc_detail'[week_num2] = MAX('public cc_detail'[week_num2])-1))
```