

-- SQL Query to create and import data from csv files:

This file has SQL queries for creating a database having two tables that will hold the data. this database will be connected to the PowerBI like a real world scenario for creating a dashboard.

-- 0. Create a database

```
CREATE DATABASE creditcarddb;
```

```
USE creditcarddb;
```

-- 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)

-- 3.1 Copy cc_detail table:

```
LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/credit_card.csv'
INTO TABLE cc_detail
FIELDS TERMINATED BY ','
ENCLOSED BY '"'
LINES TERMINATED BY '\n'
IGNORE 1 ROWS
(
Client_Num,
Card_Category,
Annual_Fees,
Activation_30_Days,
Customer_Acq_Cost,
@Week_Start_Date,
Week_Num,
Qtr,
current_year,
Credit_Limit,
Total_Revolving_Bal,
Total_Trans_Amt,
Total_Trans_Ct,
Avg_Utilization_Ratio,
Use_Chip,
Exp_Type,
```

```
Interest_Earned,  
Delinquent_Acc  
)  
SET Week_Start_Date = STR_TO_DATE(@Week_Start_Date, '%d-%m-%Y');
```

This is the correct query for the task. As direct copy will throw an error for date formatting.

👉 Your CSV date format = DD-MM-YYYY

👉 MySQL DATE format = YYYY-MM-DD

MySQL expects: 2023-01-01

but your file has: 01-01-2023

-- 3.2 Copy cust_detail table:

```
LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/customer.csv'  
INTO TABLE cust_detail  
FIELDS TERMINATED BY ','  
ENCLOSED BY ''''  
LINES TERMINATED BY '\n'  
IGNORE 1 ROWS;
```

-- 4. Insert additional data into SQL, using same COPY function

Since we have 2 separate file for both the tables cc_detail and cust_detail we will also insert that data to the respective tables.

-- 4.1 Copy cc_add table:

```
LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/cc_add.csv'
INTO TABLE cc_detail
FIELDS TERMINATED BY ','
ENCLOSED BY '"'
LINES TERMINATED BY '\n'
IGNORE 1 ROWS
(
  Client_Num,
  Card_Category,
  Annual_Fees,
  Activation_30_Days,
  Customer_Acq_Cost,
  @Week_Start_Date,
  Week_Num,
  Qtr,
  current_year,
  Credit_Limit,
  Total_Revolving_Bal,
  Total_Trans_Amt,
  Total_Trans_Ct,
  Avg_Utilization_Ratio,
  Use_Chip,
  Exp_Type,
  Interest_Earned,
  Delinquent_Acc
)
```

```
SET Week_Start_Date = STR_TO_DATE(@Week_Start_Date, '%d-%m-%Y');
```

-- 4.2 Copy cust_add table:

```
LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/cust_add.csv'  
INTO TABLE cust_detail  
FIELDS TERMINATED BY ','  
ENCLOSED BY ''''  
LINES TERMINATED BY '\n'  
IGNORE 1 ROWS;
```