# Project Objective

# To develop a comprehensive credit card weekly dashboard that provides real-time insights into key performance metrics and trends, enabling stakeholders to monitor and analyze credit card operations effectively.

# 

# Import data to SQL database

**1.Prepare csv file**

**2.Create tables in SQL**

**3.import csv file into SQL**

**SQL Queries:-**

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.

-- or

-- 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:-**

**week\_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))

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