CREDIT CARD FINANCIAL DASHBOARD POWERBI & MYSQL

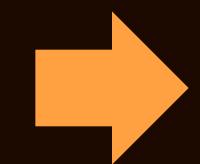
By Shubham paswan



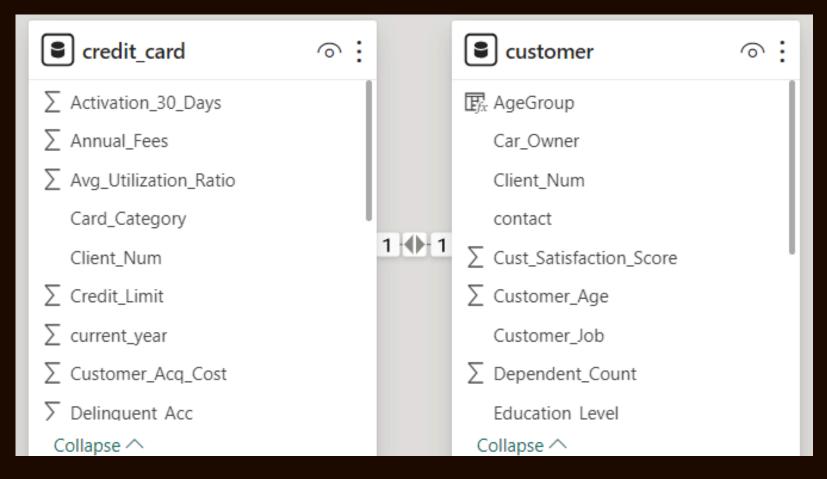


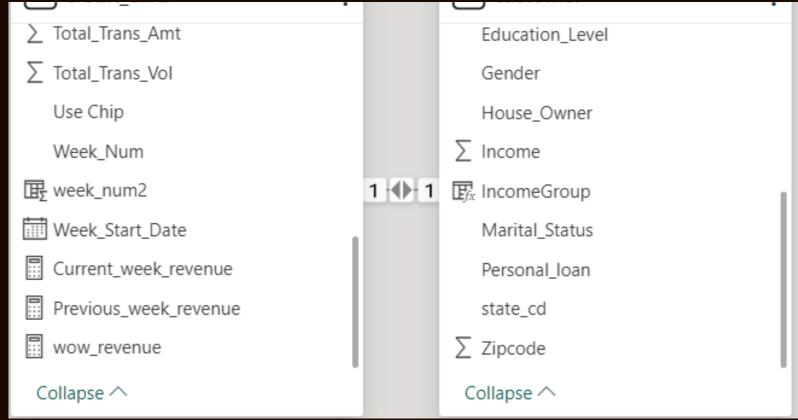
PROJECT OBJECTIVE

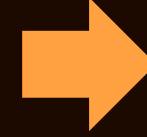
• To create a comprehensive weekly dashboard in Power BI that delivers real-time insights into key performance metrics and trends, empowering stakeholders to effectively monitor and analyze credit card operations.



DATABASE TABLES





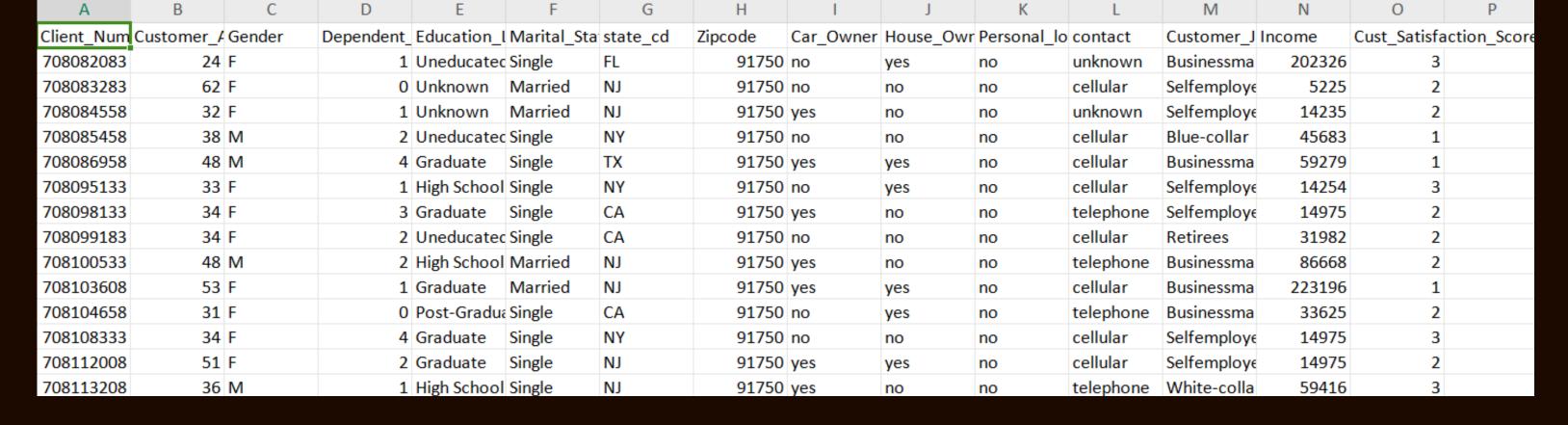


SAMPLE DATA IN CSV FORMAT

Credit_card

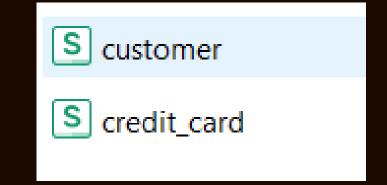
ent_Num C	ard_Cate	g Annual_Fee	Activation_	_: Customer_/	/ Week_Start	Week_Nu	ım Qtr	current_yea	Credit_Limit To	otal_Revol	Total_Trans	Total_Trans Avg_	Utiliza	t Use Chip	Exp Type	Interest_Ea	Delinquent_Ac	СС
8082083 B	lue	200	(0 87	01-01-2023	Week-1	Q1	2023	3544	1661	15149	111	0.469	Chip	Travel	4393.21	L O	
8083283 B	lue	445	1	1 108	01-01-2023	Week-1	Q1	2023	3421	2517	992	21	0.736	Swipe	Entertainm	€ 69.44	0	
8084558 B	llue	140	(106	01-01-2023	Week-1	Q1	2023	8258	1771	1447	23	0.214	Chip	Bills	202.58	0	
8085458 B	llue	250	1	1 150	01-01-2023	Week-1	Q1	2023	1438.3	0	3940	82	0	Online	Grocery	236.4	0	
8086958 B	lue	320	1	1 106	01-01-2023	Week-1	Q1	2023	3128	749	4369	59	0.239	Swipe	Fuel	1004.87	1	
8095133 B	llue	100	(94	01-01-2023	Week-1	Q1	2023	33304	1833	1448	29	0.055	Swipe	Bills	275.12	2 0	
8098133 B	llue	225	1	1 75	01-01-2023	Week-1	Q1	2023	2834	1418	1598	39	0.5	Swipe	Bills	159.8	3	
8099183 B	llue	400	1	1 75	01-01-2023	Week-1	Q1	2023	5723	1873	2732	63	0.327	Swipe	Grocery	409.8	0	
8100533 B	llue	200	1	1 64	01-01-2023	Week-1	Q1	2023	2679	2277	4943	85	0.85	Chip	Food	988.6	0	
8103608 P	latinum	95	1	1 80	01-01-2023	Week-1	Q1	2023	11898	2517	15798	128	0.212	Chip	Grocery	3791.52	2 0	
8104658 B	llue	455	1	1 118	01-01-2023	Week-1	Q1	2023	1438.3	890	2928	48	0.619	Swipe	Fuel	732	2 0	
8108333 B	llue	485	(0 86	01-01-2023	Week-1	Q1	2023	5590	0	1507	32	0	Swipe	Entertainm	ε 150.7	0	
8112008 B	lue	440	1	1 86	01-01-2023	Week-1	Q1	2023	23510	1049	1661	35	0.045	Swipe	Grocery	465.08	0	
8113208 B	lue	300	1	1 149	01-01-2023	Week-1	Q1	2023	1688	0	4375	69	0	Chip	Fuel	525	0	
8117933 B	lue	360		70	01-01-2023	Week-1	01	2023	1880	0	2469	34	0	Chip	Bills	419.73	1	

Customer



IMPORT DATA TO MYSQL DATABASE

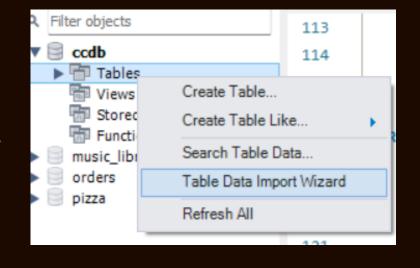
1.Prepare csv file

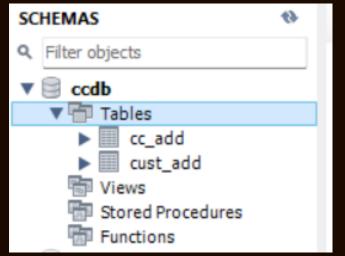


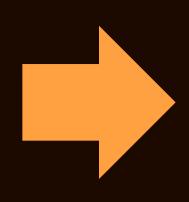
2.Create database in MySql —



3.Import csv file in MySql





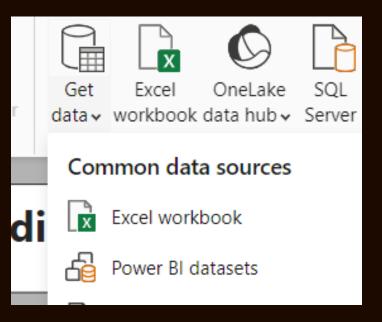


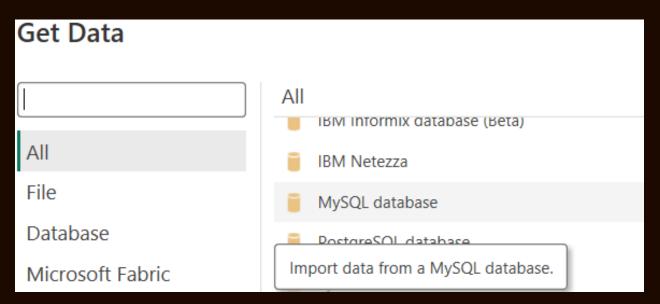
CONNECT MYSQL DATABASE TO POWER BI

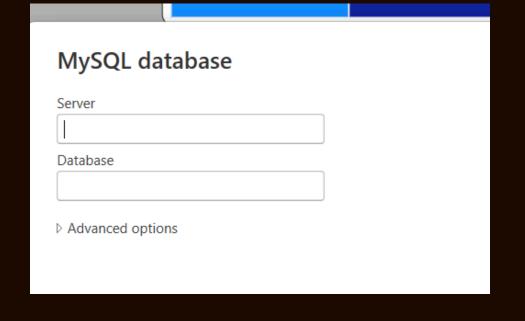
Step 1. Click on the Home tab, then select Get Data in Power BI.

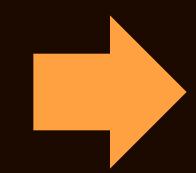
Step2. In the Get Data window, search for MySQL database and select it

Step3. In the MySQL database dialog box, enter the server name, port number, and database name.

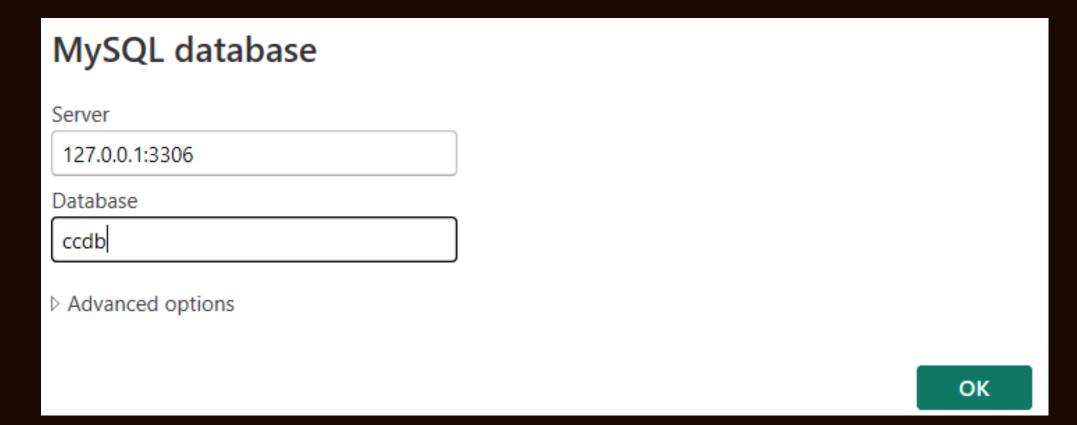




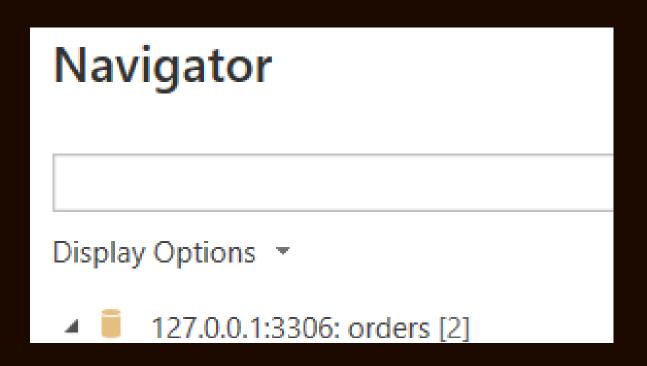




Step4. Choose the authentication method (usually Database) and enter your username and password

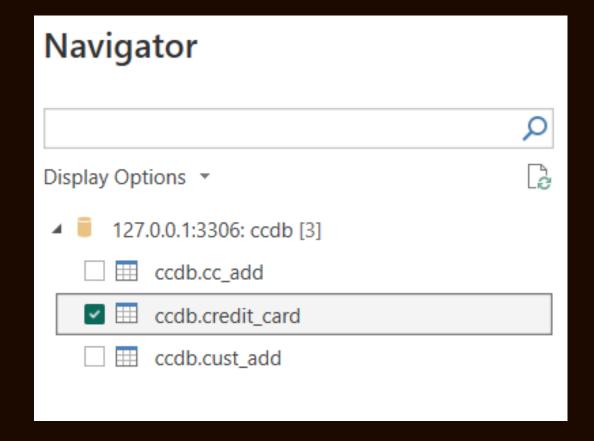


Step5. Click OK to connect to the database. If the connection is successful, the Navigator window will appear

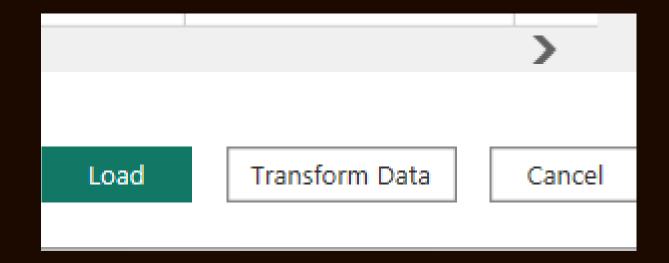




Step6. In the Navigator window, select the tables or views you want to import.



Step7.Click Load to import the data directly or Transform Data to open the Power Query Editor for data transformation.



DAX QUERIES

```
IncomeGroup = SWITCH(
    TRUE(),
    customer[Income] < 35000, "Low",
    customer[Income] >= 35000 && customer[Income] < 70000, "Med",
    customer[Income] < 70000, "High",
    "unknown")</pre>
```

```
Revenue = 'credit_card'[Annual_Fees] + credit_card[Total_Trans_Amt] + credit_card[Interest_Earned]
wow_revenue = DIVIDE(([Current_week_revenue] - [Previous_week_revenue]),[Previous_week_revenue])
week num2 = WEEKNUM(credit card[Week Start Date])
Previous_week_revenue = CALCULATE(
   SUM(credit_card[Revenue]),
   FILTER(ALL(credit_card),credit_card[week_num2] = MAX(credit_card[week_num2])-1))
Current_week_revenue = CALCULATE(
   SUM(credit_card[Revenue]),
   FILTER(ALL(credit_card), credit_card[week_num2] = MAX(credit_card[week_num2])))
```

CREDIT CARD TRANSACTION DASHBOARD

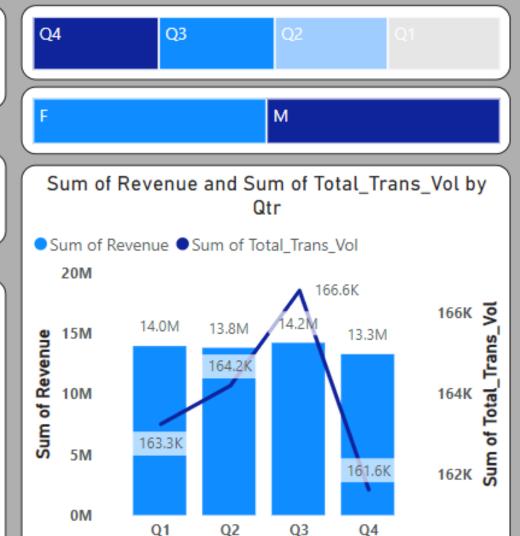
Credit Card Transaction Report

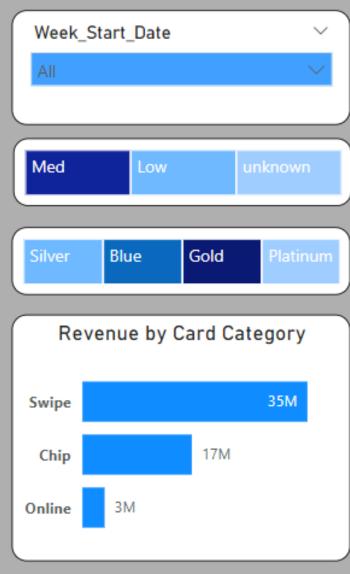
Revenue 55.3M

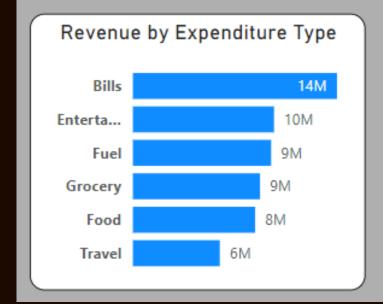
7.8M

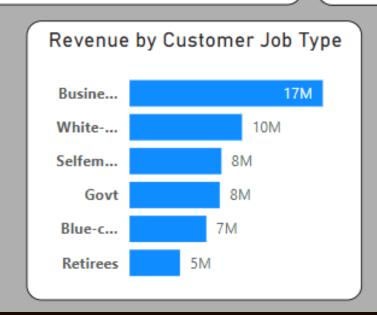
Amount 44.5M 656K

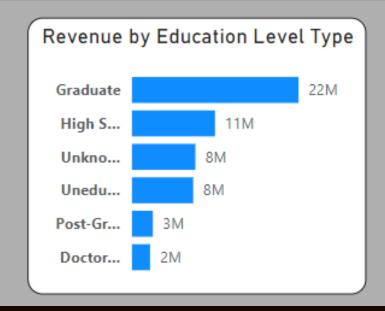
Card_Category	Sum of Revenue	Sum of Total_Trans_Amt	Sum of Interest_Earned
Blue	46139398	36957875	64,95,887.74
Gold	2454072	2024078	3,73,784.16
Platinum	1135608	953314	1,61,629.05
Silver	5586332	4586746	8,12,081.28
Total	55315410	44522013	78,43,382.23

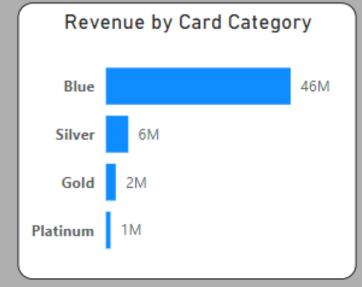






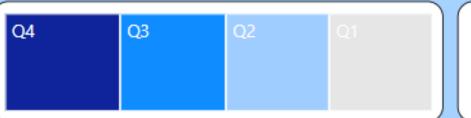






CREDIT CARD CUSTOMER DASHBOARD

Credit Card Customer Report





Revenue

55M

Total Interest

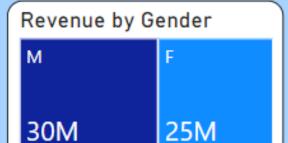
7.8M

Income

576M

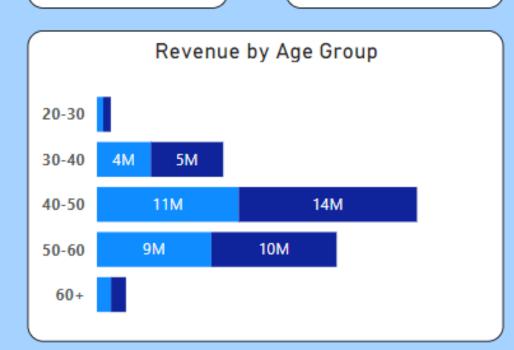
CSS

3.19

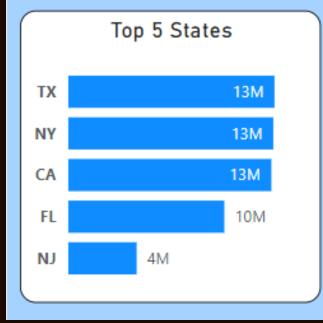




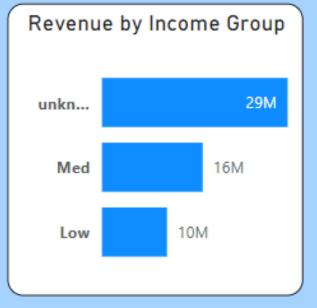
Sum of Revenue by Year and Gender									
Gender ● F ● M									
Sum of Revenue	30M · · · · · · · · · · · · · · · · · · ·								
Sur	25M · · · · · · · · · · · · · · · · · · ·	2023 Year							

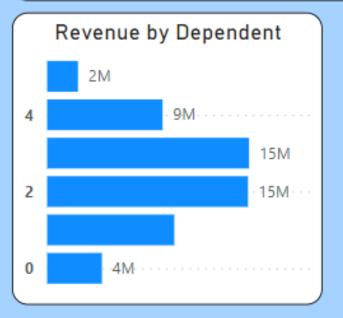


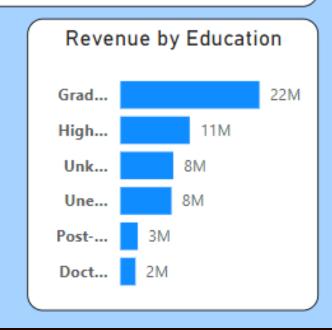
Customer_Job	Sum of Revenue	Sum of Interest_Earned	Sum of Income
Blue-collar	6904279	9,52,800.57	72262158
Businessman	17387832	25,39,390.31	186959919
Govt	8111701	11,60,016.37	88773989
Retirees	4535184	6,30,359.24	48675030
Selfemployeed	8261758	11,19,741.81	75313288
White-collar	10114656	14,41,073.93	103930055
Total	55315410	78,43,382.23	575914439











Credit card financial dashboard using Power BI:

- Developed an interactive dashboard using transaction and customer data from a SQL database, to provide real-time insights.
- Streamlined data processing & analysis to monitor key performance metrics and trends.
- Shared actionable insights with stakeholders based on dashboard findings to support decision-making processes.



THANKYOU

