Banking Dashboard Project

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INTRODUCTION

Objective:

To explore, visualize, and analyze bank loan and transaction data using industry tools like Excel, Tableau, and Power BI.

Goal:

Create interactive dashboards that help in identifying key financial patterns, client insights, and decision-making indicators for financial institutions.



PROBLEM STATEMENT

- The banking sector deals with huge amounts of client and loan data, which is difficult to analyze manually.
- This project focuses on converting that raw data into clear, interactive dashboards to help banks track performance, understand customer behavior, and make data-driven decisions.



KPIS & INSIGHTS

Key Performance Indicators (KPIs):

• Total Clients: 65.54K

• Total Loan Amount: ₹751M

Total Funded Amount: ₹733M

• Total Collection: ₹814.9M

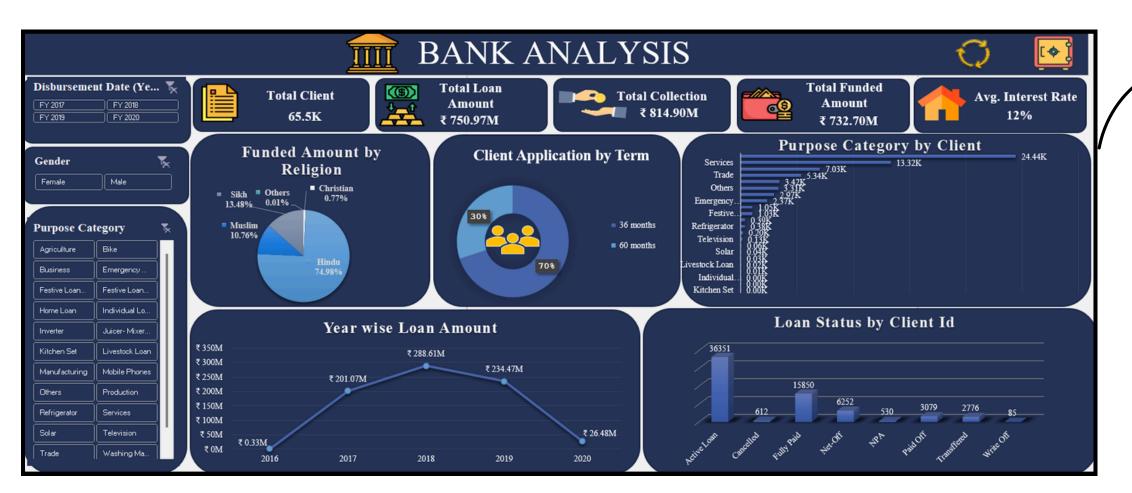
• Average Interest Rate: 12.03%

Insights:

- Home Loans were the most availed loan type.
- Hindu clients formed 75% of the dataset.
- The majority of loans were 36-month terms.
- Highest active loan count: 36K
- Most clients applied in 2018 (26K).



EXCEL DASHBOARD



- 1. Dashboard shows 68% clients chose 36month loan term
- 2. Total loan disbursed is ₹31.35M with 2.5K clients.

- 1. Dashboard shows ₹127.60M credit, ₹127.29M debit, and 100K customers.
- 2. Main Branch leads with 16.78K customers; Dec shows sharp balance drop.

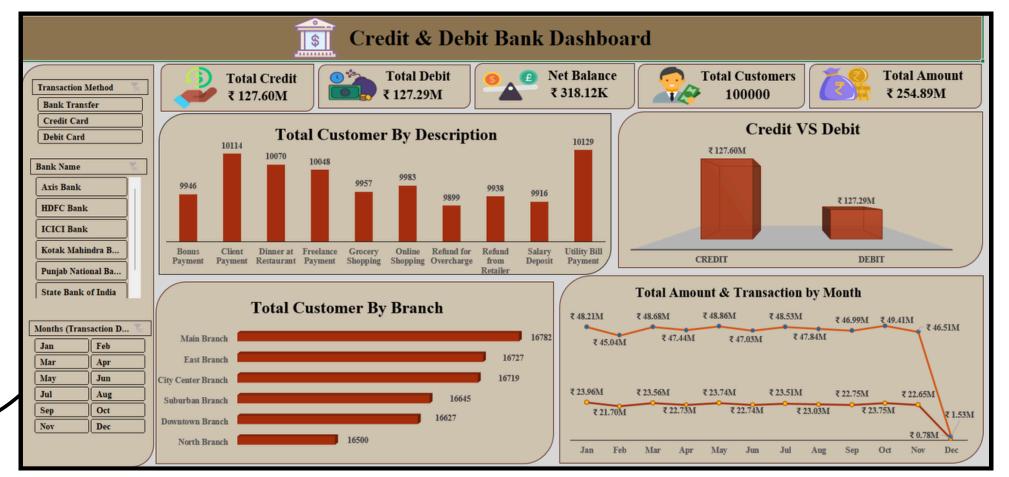
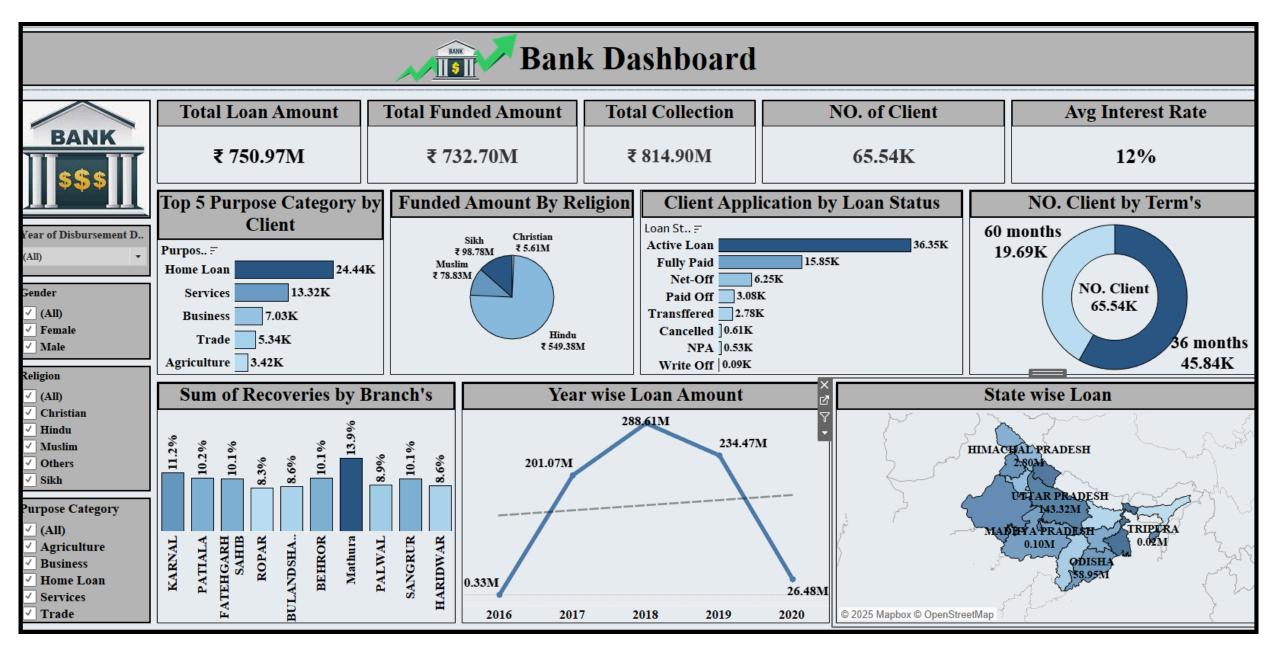


TABLEAU DASHBOARD



- In this Tableau dashboard, total loan is ₹750.97M with 65.54K clients at 12% interest.
- Most clients chose 36-month term and Home Loan is the top category.
- 1.82K clients have fully paid their loans.

SQL QUERIES

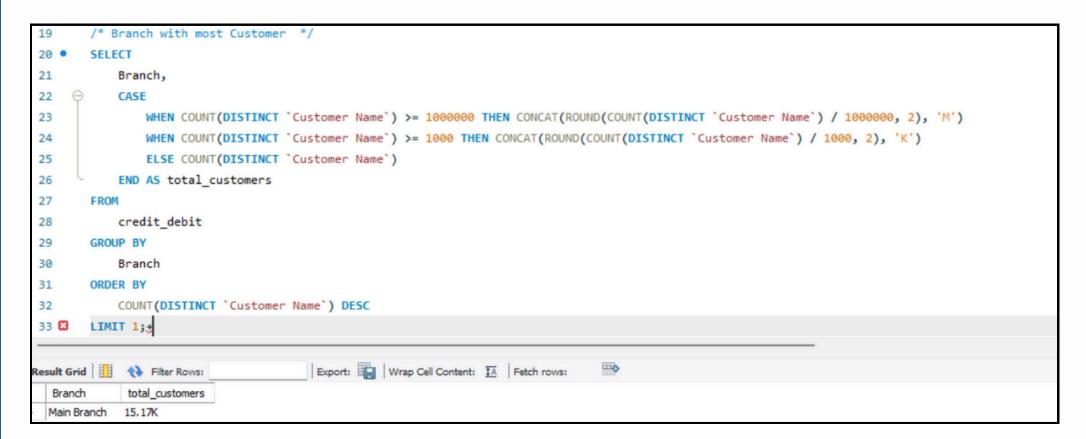
```
SELECT
           'Bank Name',
6
          CASE
               WHEN COUNT(DISTINCT `Customer Name`) >= 1000000 THEN CONCAT(ROUND(COUNT(DISTINCT `Customer Name`) / 1000000, 2), 'M')
              WHEN COUNT(DISTINCT `Customer Name`) >= 1000 THEN CONCAT(ROUND(COUNT(DISTINCT `Customer Name`) / 1000, 2), 'K')
              ELSE COUNT(DISTINCT `Customer Name`)
           END AS total customers
           credit_debit
           'Bank Name'
           COUNT(DISTINCT `Customer Name`) DESC
                                      Export: Wrap Cell Content: A Fetch rows:
Bank Name
                 15.22K
 Kotak Mahindra Bank
                 15.21K
 Punjab National Bank
                 15.09K
State Bank of India
```

- III Displays Top 5 Banks with the Most Unique Customers from the credit_debit table.
- Formats Customer Counts: Converts to 'K' (thousands) or 'M' (millions) for better readability using a CASE statement.

- S Calculates total credit amount from all transactions.
- 12 Formats the sum in 'K' or 'M' for easier understanding.

```
/* Total Credit */
 35
 36
         SELECT
37 •
          CASE
38
            WHEN SUM(amount) >= 1000000 THEN CONCAT(ROUND(SUM(amount)/1000000, 2), 'M')
39
            WHEN SUM(amount) >= 1000 THEN CONCAT(ROUND(SUM(amount)/1000, 2), 'K')
40
41
            ELSE ROUND(SUM(amount), 2)
          END AS total_credit
42
        FROM credit debit
43
        WHERE `Transaction Type` = 'Credit';
                                         Export: Wrap Cell Content: IA
Result Grid
             Filter Rows:
   total_credit
 127.6M
```

SQL QUERIES

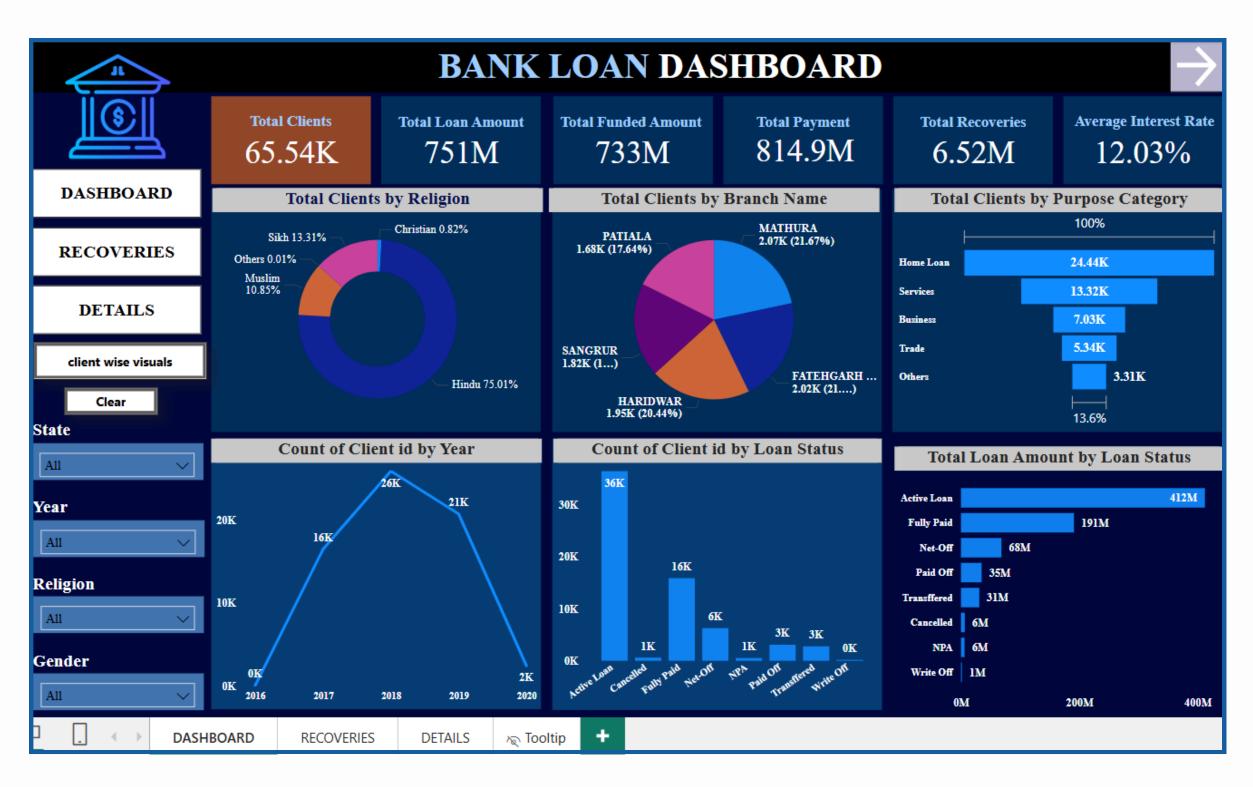


- in Finds the branch with the highest number of unique customers.
- Bar Displays the customer count in 'K' or 'M' format.

- Calculates total debit amount from all debit transactions.
- 12 Displays the value in 'K' or 'M' format for clarity.

```
/* Total Debit */
 47
 48
            SELECT
 49
          CASE
            WHEN SUM(amount) >= 1000000 THEN CONCAT(ROUND(SUM(amount)/1000000, 2), 'M')
            WHEN SUM(amount) >= 1000 THEN CONCAT(ROUND(SUM(amount)/1000, 2), 'K')
            ELSE ROUND(SUM(amount), 2)
52
          END AS total_debit
 53
        FROM credit_debit
 54
        WHERE `Transaction Type` = 'Debit';
 55
                                          Export: Wrap Cell Content: $\frac{1}{4}
Result Grid
   total_debit
  127,29M
```

POWER BI DASHBOARD



- The average interest rate is 12.03%, and total recoveries stand at ₹6.52M.
- Home Loan is the top purpose category with 24.44K clients.
- Patiala branch has the highest number of clients at 1.8K.

PROJECT SUMMARY

- Domain: Banking Analytics visualizing client and loan data
- Problem: Raw banking data is hard to interpret manually
- Tools Used: Excel, Tableau, Power BI, SQL
- Built: Dashboards showing KPIs, loan trends, client insights
- Challenges: Data cleaning, tool learning, visual selection
- Learnings: Gained skills in visualization, SQL, storytelling
- Outcome: Clear dashboards for better decision-making



THANK YOU!

