Bank Analytics

P932 – GROUP 2

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Project Summary

This project analyzed two core banking datasets — **Bank Loan** and **Credit-Debit Transactions** — using Excel, Tableau, Power BI, and SQL.



The Bank Loan Dashboard focused on disbursement trends, borrower demographics, and risk indicators like delinquency and defaults, helping identify key segments and high-risk products.



The Credit-Debit Dashboard evaluated customer transaction behavior across cards and transfers, leading to a strategic plan to boost revenue through targeted offers and customer engagement tactics.



Together, the analysis helped uncover financial patterns, improve risk management, and propose strategies for sustainable banking growth.



KPI Overview

Bank Loan KPIs

Loan Amount

Delinquent Clients

Delinquent Loan Rate

Average Interest Rate

State wise Performance

Loan Performance Trend

Age Group wise Share

Religion wise Share

Product wise Distribution

Credit and Debit KPIs

Credit Amount

Debit Amount

Net Transaction Amount

A/C Activity Ratio

Branch wise Performance

Bank wise Performance

Method wise Transaction

Monthly Credit v/s Debit Trend

Transaction Trend

Excel Dashboard (Bank Loan Data)





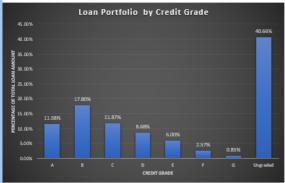
Bank Loan Analytics Dashboard

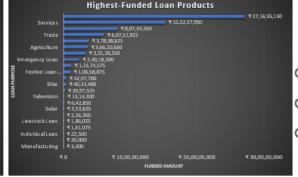


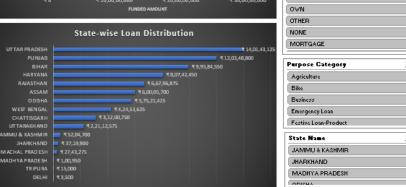


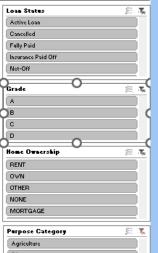


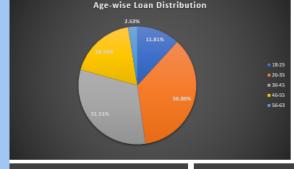


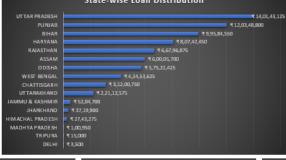






















Excel Dashboard (Credit and Debit Data)



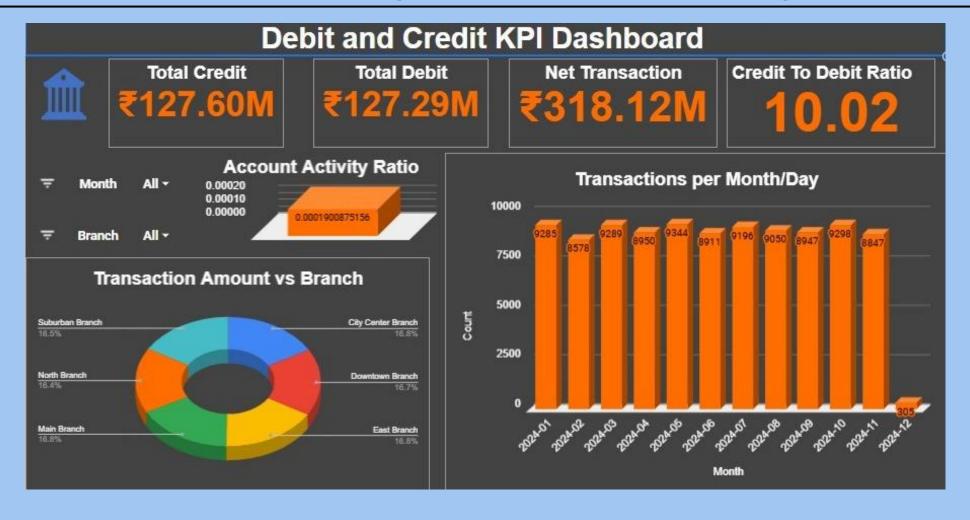


Tableau Dashboard (Bank Loan Data)



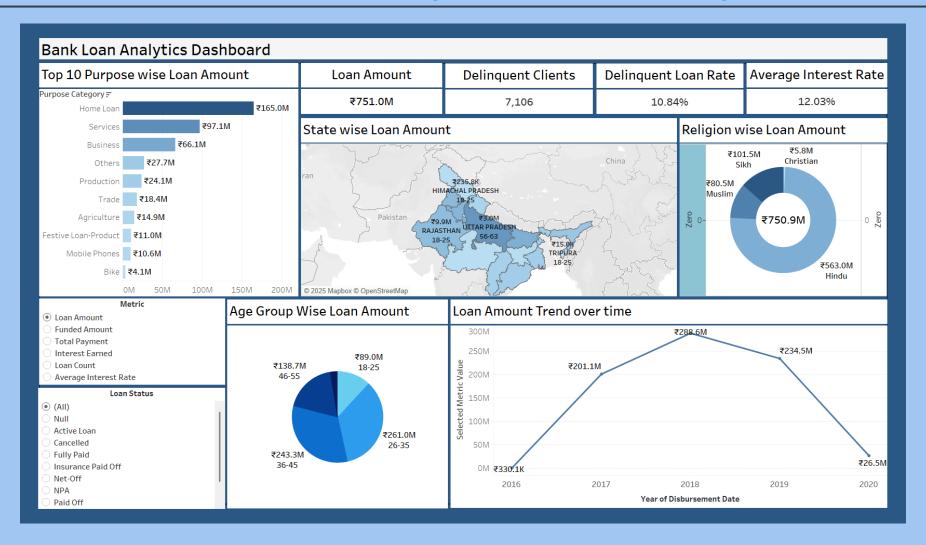
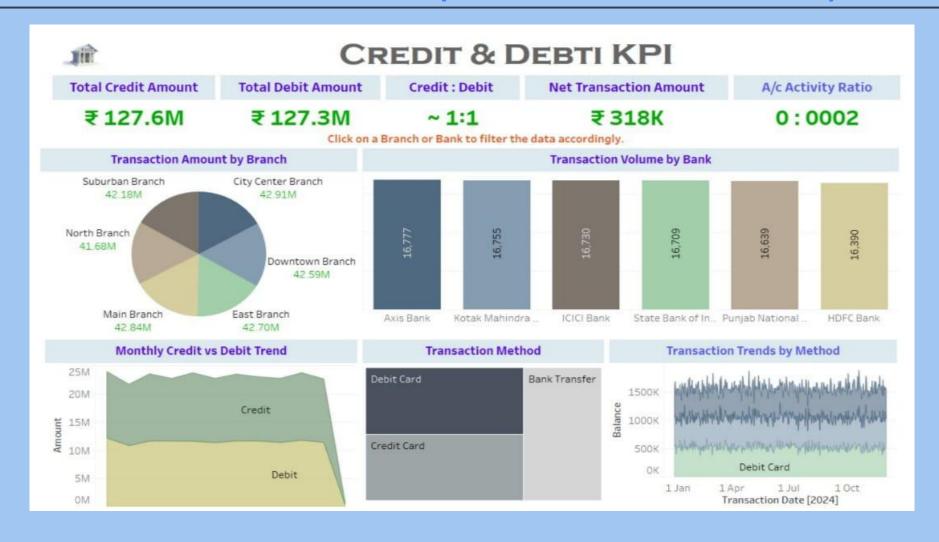


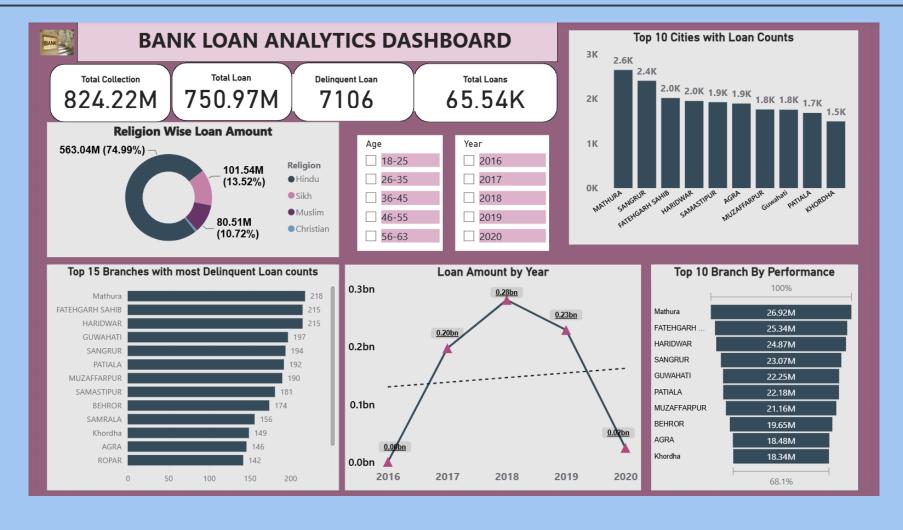
Tableau Dashboard (Credit and Debit Data)





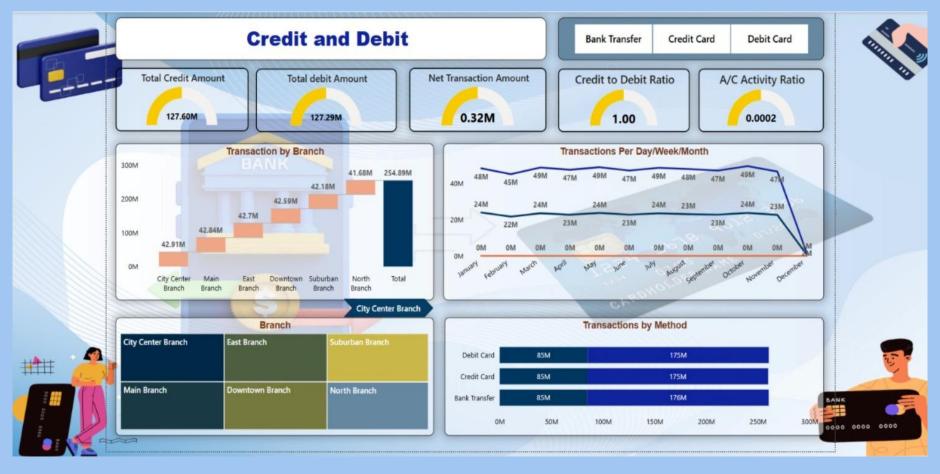
Power BI Dashboard (Bank Loan Data)





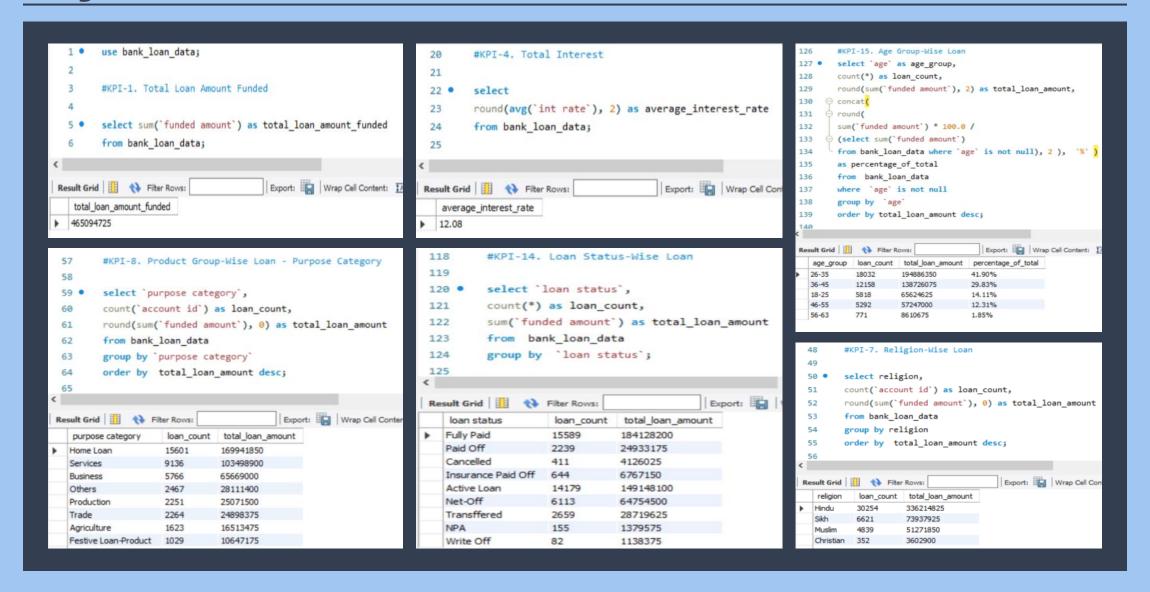
Power BI Dashboard (Credit and Debit Data)





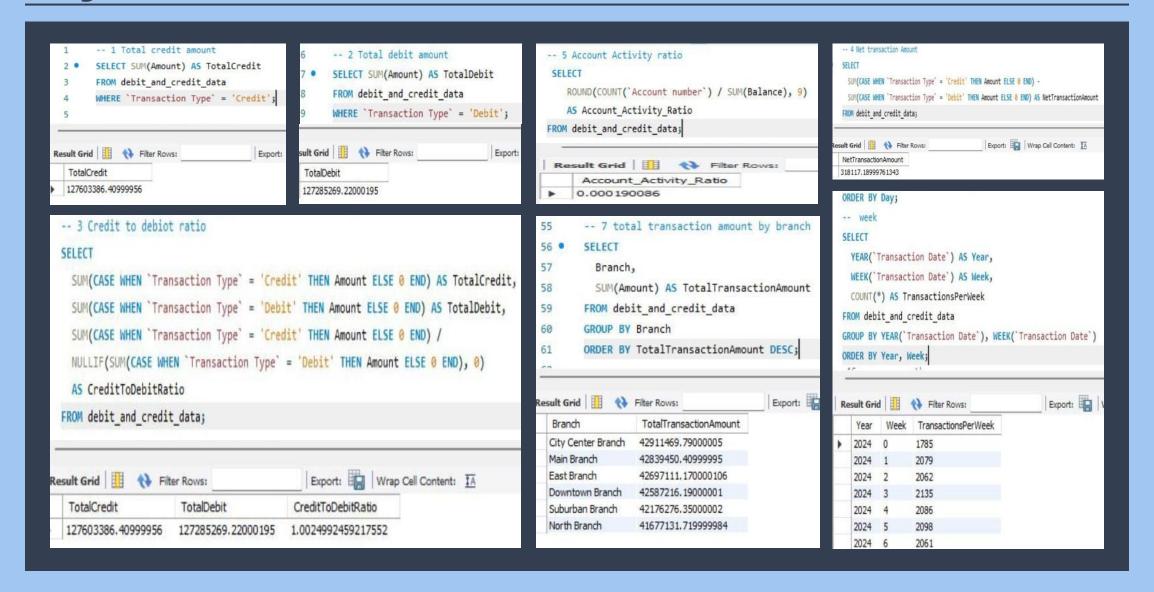
MySQL Queries (Bank Loan Data)





MySQL Queries (Credit and Debit Data)





Key Takeaways

Loan Transactions

While loan disbursement remains strong across key regions, delinquency and verification gaps present ongoing risks. To enhance portfolio quality, reduce defaults, and deepen borrower relationships, banks are advised to adopt a targeted and data-driven approach to lending.

To Improve Repayment Behavior and Minimize Delinquencies:

- Start early reminders via SMS or app notifications and use gentle, consistent communication methods to encourage on-time payments.
- Mandate full verification of all new loans to reduce fraud risk and maintain healthy borrower profiles.

To maximize returns in high-performing areas:

Focus on top-contributing states such as Uttar Pradesh, Punjab, and Bihar, where
loan volumes are highest. Banks should invest in staff training, performance
incentives, and local engagement strategies to increase efficiency and growth in
these regions.

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To manage home loan risk and improve retention:

 Offer insurance-backed protection and restructured repayment options for home loan defaulters, the most affected category across loan types.

To foster long-term borrower relationships:

Develop specialized loan products for the 18–25 age group, such as education loans, startup funding, or career-builder schemes, to support early-stage borrowers and build loyalty.

Together, these initiatives aim to enhance credit quality, lower risk exposure, and promote inclusive and sustainable growth across the bank's loan portfolio.

Credit and Debit Transactions

Strategic Revenue Enhancement Plan for Banking Channels

All bank branches are currently performing well, with revenue from **net transactions** across **Debit Card**, **Credit Card**, and **Bank Transfer** channels remaining **consistently strong**. To further **ramp up revenues** and **deepen customer engagement**, it is recommended that banks **introduce more attractive and differentiated offers** for each transaction category:

- Credit Cards: Enhance customer appeal with increased cashback and exclusive payment offers.
- Debit Cards: Reduce transaction fees to encourage higher usage.
- Bank Transfers: Introduce incentives for high-value transfers (e.g., discounts or fee waivers above a set threshold).

Credit and Debit Transactions

These measures will not only boost transaction volumes but also motivate customers to recycle their funds through **Fixed Deposits** and **Savings Plans**, supporting long-term monetary objectives. To retain and grow customer balances, banks should:

- Promote auto-savings and recurring deposit products
- Encourage usage of UPI and Net Banking as complementary digital channels.
- Launch seasonal campaigns, referral programs, and strategic partnerships to drive customer acquisition and engagement.

Together, these strategies aim to increase customer loyalty, optimize revenue streams, and ensure sustainable growth across all banking services.

THANK YOU