Bank Transactions Analysis Mini Data Analytics Project

1. Project Objective

To analyze spending patterns, income flow, and financial behavior using bank transaction data. The goal is to use SQL for querying and Excel for visualization.

2. Tools Used

- MySQL
- Excel
- SQL (Aggregation, Grouping, Filtering)

3. Dataset Description

20 transactions with columns:

- transaction_id
- customer_name
- date
- amount
- type (Debit/Credit)
- category

4. SQL Tasks Performed

1. Created database and table
2. Inserted transaction data
3. Customer-wise total spending
4. Customer-wise credits
5. Net balance per customer
6. Category-wise spending
7. Daily total credits & debits

5. Visualizations

- Category-wise spending (Pie Chart)

- Customer net balance (Bar Chart)

6. Key Insights

1. Travel has the highest spending (₹8274).

2. Bills and Shopping together are major expense categories.

3. Arjun has the highest total spending.

4. Neha receives the highest credits (multiple salary credits).

5. Kiran receives a high credit (Rent) but spends less.

6. Daily credit spikes occur on Feb 12 and Feb 21.

7. Conclusion

This project demonstrates core data analysis skills:
creating a dataset, running SQL queries, building visual charts, and generating insights.
It is suitable for resume, viva, and internship submission.