Banking System Project (Without Trigger)

1. Objective

The main aim of this project is to create a simple banking system in MySQL where we can add customers, check balances, and record deposits and withdrawals. The balance is updated manually without using any database trigger.

2. Introduction

The Banking System helps to manage basic bank operations like opening an account, depositing and withdrawing money, and checking account balance. It uses two tables: one for storing account details and another for storing all transactions. The balance is updated manually through SQL queries.

3. Tables Used

1. **Accounts Table** – stores account number, name, and current balance. 2. **Transactions Table** – keeps records of all deposits and withdrawals with date and time.

4. Working of the System

- When a customer deposits money, the amount is added to the balance manually. - When a withdrawal happens, the amount is subtracted from the balance manually. - Every operation is recorded in the transactions table for tracking.

5. Features

- Simple and easy to understand. - Allows deposits, withdrawals, and balance checks. - Keeps history of all transactions. - No trigger used, all updates are done using normal SQL queries.

6. Advantages

- Easy for beginners to understand MySQL operations. - Manual updates make it simple to see how queries work. - Can be easily extended for future improvements.

7. Limitations

- Manual balance update may lead to mistakes. - Not suitable for large or real-time banking systems.

8. Future Scope

In the future, this system can include features like automatic balance updates using triggers, online transfers, user login, and an interface for customers to check their details easily.

9. Conclusion

This project shows how basic banking operations can be managed in a MySQL database using simple queries. It is a good starting point for students learning about database design and data handling.

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