

# **DATABASE PROJECT** **BANKING SYSTEM**

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# INTRODUCTION

A **banking system** provides financial services for public. These systems are used by banks and are responsible for operating a payment system, providing loans, taking deposits, and helping with investments and transactions for customers.



# OBJECTIVE

Creating a robust banking system using the database knowledge we have.

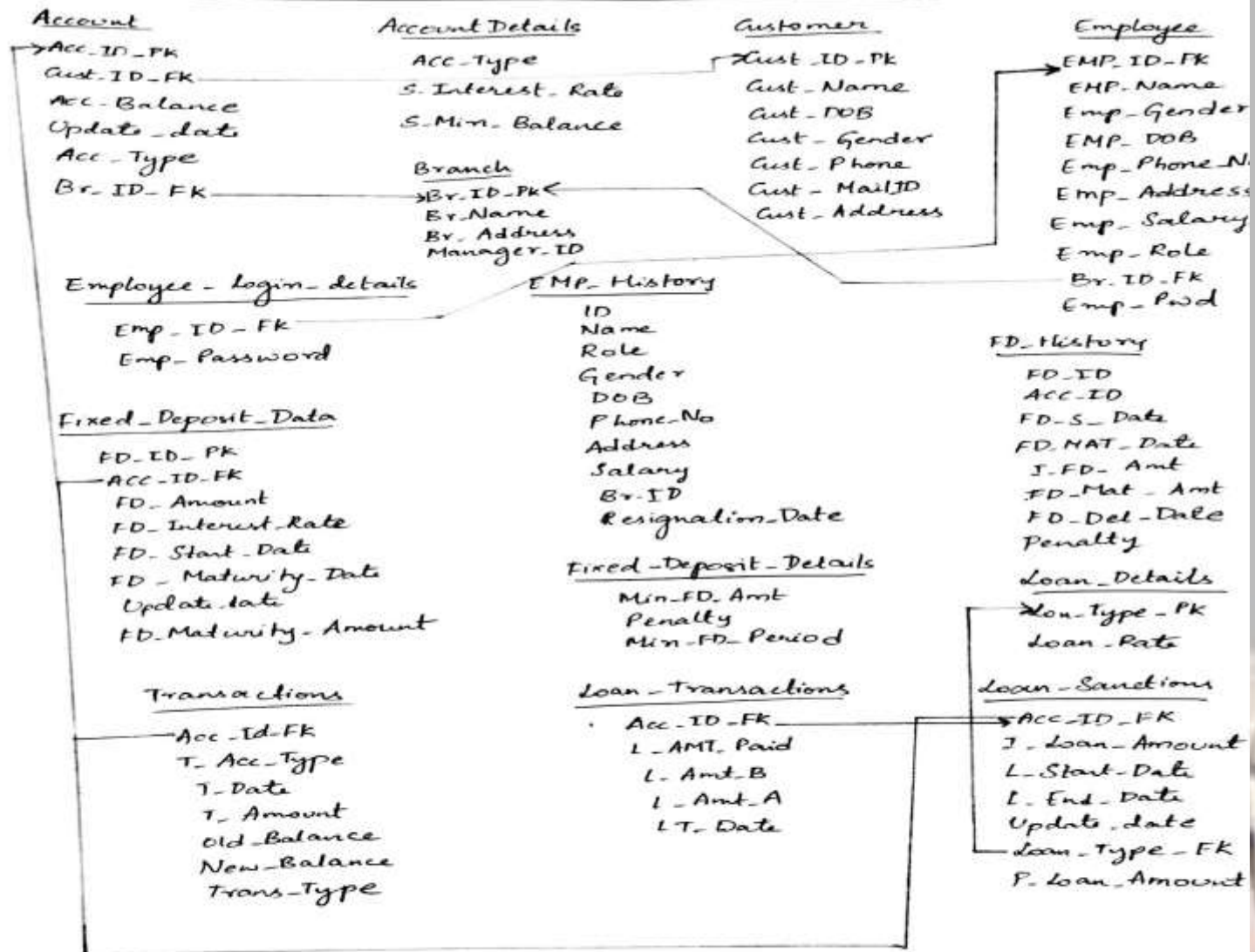


# TOOLS USED

- HTML
- CSS
- PHP
- XAMPP Server (phpMyAdmin)
- MySQL
- JavaScript



# RELATIONAL SCHEMA



# APPLICATIONS

- Employee and Manager login for different branches.
- User-id and password for each employee and manager.
- Managers can add employees along with other operations done by employees.
- Adding new customers ,new accounts.
- Old customers can have multiple accounts.
- 3 types of accounts – CURRENT,SAVINGS,LOAN



- Withdraw and Deposit operations for various types of accounts.
- Loan facility.
- Different types of loans with different interest rates.
- Fixed deposit facility.
- Check on Maturity date of FD is done automatically.
- Option to break FD before Maturity Date.
- Options to view : Customer details, Account details, Transactions, FD details.
- Event Scheduler for FDs, Loan Accounts and interest on savings account.



# FRONT-END

- On insertion in EMPLOYEE table to automatically insert in EMPLOYEE\_LOGIN\_DETAILS.
- On insertion in CUSTOMERS to modify ACCOUNT, TRANSACTIONS tables according to type of account.
- Insertion in ACCOUNT table when existing customer creates new account.
- Updating ACCOUNT table for premature FD.





# PROCEDURES

- To delete FD after maturity date.
- To increase FD amount every month.
- To update loan amount to be paid based on interest rate for every month.
- To increase SAVINGS account balance based on interest rate for every month.



# TRIGGERS

- Trigger on insertion and deletion in FIXED\_DEPOSIT\_DATA.
- Trigger on deletion of employee data from employee data.



# EVENTS

- Automatic deletion of FD on maturity-date and transfer of balance to his account.
- Automatic updating of ACCOUNT at the end of every month and addition of interest to the balance of the savings account , loan amount to be paid and FD account is done for every month.



# **LIMITATIONS**

- Interest rate of different types of loans are fixed.
- No time limit to pay back the loan.
- No limit on number of loans for a customer.



# MODIFICATIONS

- Better FD break policy
- Incorporation of service charges for CURRENT account
- Incorporation of limit on number of withdrawals for savings account
- Proper loan policies



# CONCLUSION

- The banking system database project has been successfully implemented.
- Though there are certain limitations this project works reasonably well.

