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# Project Proposal: Bank Database Management System

**Project Overview:**

This bank database management system is designed to help improve the operation efficiency of the bank; assist bank manager to make better decision by collecting and processing information from the database; help bank manager and work staff work with high efficiency, reduce the operation cost and then increase the profit of bank

**Project Description:**

This system involves several sections:

1. custom-oriented functions;
2. administrative functions: process checks, add/drop customers, open/close account;
3. reporting functions: print monthly statements, yearly tax statements, loan payment schedule

the main interface of the system will include customers function, administrative function and reporting function:

1. The customer functions will allow customer to deposit, withdraw, make transaction and pay loan;
2. The administrative function will allow the working staff in the bank to process the check; open/close an account for customers;
3. Reporting functions includes printing monthly statements for customer, the yearly interest income statements and loan payment schedule.

**The following are the tables used in database schema:**

Custom Table

|  |  |  |  |
| --- | --- | --- | --- |
| Custom ID | Custom Name | Address | Phone Number |
|  |  |  |  |

Bank Branch Table

|  |  |  |
| --- | --- | --- |
| Branch ID | Branch Name | Branch Address |
|  |  |  |

Checking Account Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Account\_Type | Account\_Num | Branch\_ ID | Open\_Date | Balance | Check\_ Limit |
|  |  |  |  |  |  |

Saving Account Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Account\_Type | Account\_Num | Branch\_ID | Open\_Date | Balance | Interest \_Rate |
|  |  |  |  |  |  |

Loan Account Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Account\_Type | Account\_Num | Branch\_ID | Open\_Date | Loan\_Type | Interest\_ Rate |
|  |  |  |  |  |  |

Transaction Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Account\_Type | Account\_Num | Trans\_Date | Trans\_Amount | Trans\_Type | Trans\_Comments |
|  |  |  |  |  |  |

Has Account Table

|  |  |  |
| --- | --- | --- |
| Custom\_ID | Acct\_Num | Acct\_type |

Transactions Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Acct\_Type | Acct\_Num | Trans\_date | Trans\_Type | Trans\_Amt | Trans\_Comments |
|  |  |  |  |  |  |