Database Schema

Normalization:

The database will follow the rules of normalization, aiming to:

- Eliminate data redundancy.

- Ensure consistency across the database.

- Minimize update anomalies.

The schema will be in \*Third Normal Form (3NF):

- All tables will contain atomic values.

- Each non-key attribute will depend only on the primary key (no partial or transitive dependencies

Tables and Fields:

- Clients\* table will store personal information with a primary key ClientID.

- Loans table will track loan details with LoanID as the primary key, and ClientID as a foreign key.

- Repayment stable will track repayment details with Repayment as the primary key, and Loaned and ClientID as foreign keys.

- Savings table will track deposit records with SavingsID as the primary key.

- Loan Eligibility table will store eligibility criteria, linked to the \*Clients\* table via ClientID.

Indexes:

Indexes will be created on:

- ClientID in the Loans, Repayments, and Savings tables to speed up lookup queries.

- LoanID in the Repayments table for quick retrieval of repayment data.