Javac Banking System

Customers Table

Column Name	Data Type	Constraints
customer_id	INT	PRIMARY KEY, AUTO_INCREMENT
first_name	VARCHAR(50)	NOT NULL
last_name	VARCHAR(50)	NOT NULL
email	VARCHAR(100)	NOT NULL, UNIQUE
phone_number	VARCHAR(15)	
address	VARCHAR(255)	

Accounts Table

Column Name	Data Type	Constraints
account_id	INT	PRIMARY KEY, AUTO_INCREMENT
customer_id	INT	FOREIGN KEY REFERENCES Customers(customer_id)
account_type	VARCHAR(20)	NOT NULL
balance	DECIMAL(10, 2)	DEFAULT 0.00

Transactions Table

Column Name	Data Type	Constraints
transaction_id	INT	PRIMARY KEY, AUTO_INCREMENT
account_id	INT	FOREIGN KEY REFERENCES Accounts(account_id)
transaction_type	VARCHAR(10)	NOT NULL
amount	DECIMAL(10, 2)	NOT NULL
transaction_date	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP
description	VARCHAR(255)	

Tables

- **Customers Table**: This table holds basic information about the bank's customers, including their name, contact information, and the date they were added to the database.
- **Accounts Table**: Each customer can have one or more accounts. This table tracks the account type (e.g., savings, checking), the current balance, and the date the account was created.
- **Transactions Table**: This table logs all transactions made against any account, including the type of transaction (e.g., deposit, withdrawal), the amount, and a description of the transaction.