Database model for MYBANK

Bank DB: Schema to store all the tables for MYBANK

Bank: Stores bank\_id and bank\_name of bank. Here bank\_id is primary key

Addresses: Stores address\_id, whole address of bank as well as customers. Primary key is address\_id

Branches: Column stores branch\_id, address\_id, bank\_id, branch\_code. Primary key is branch\_id and foreign keys in attribute are address\_id and bank\_id.

Customers: Attribute stores customer\_id, address\_id, branch\_id, personal\_detail and contact\_no. of customers. In this attribute primary key is customer\_id and foreign keys are address\_id and branch\_id.

Account types: attribute stores different account\_types of customers e.g saving, checking etc. with description. Primary key is account\_type.

Accounts: Stores account\_no. , account\_type, account\_status, customer\_id, current\_bal, other\_details. Primary key is account\_no and foreign keys are account\_type, and account\_status.

Transactions: Stores different transactions of customers with their transaction\_id, account\_no, merchant\_id, transaction\_amount etc. Primary Key is transaction\_id and foreign key is account\_no.

Create database BankDB;

CREATE TABLE bankDB.bank(

bank\_id int NOT NULL,

bank\_name VARCHAR (255),

PRIMARY KEY (bank\_id));

CREATE TABLE bankDB.addresses(

address\_id int NOT NULL,

Line\_1 VARCHAR(255),

Line\_2 VARCHAR(255),

City VARCHAR(255),

State VARCHAR(255),

zip INT,

Country VARCHAR(255),

PRIMARY KEY (address\_id)

);

CREATE TABLE bankDB.branches(

branch\_id int NOT NULL,

address\_id int NOT NULL,

bank\_id int NOT NULL,

branch\_code int,

PRIMARY KEY (branch\_id),

CONSTRAINT FK\_branchaddr FOREIGN KEY (address\_id) references addresses(address\_id),

CONSTRAINT FK\_bankid FOREIGN KEY (bank\_id) references bank(bank\_id)

);

CREATE TABLE bankDB.customers(

customer\_id int NOT NULL,

address\_id int NOT NULL,

branch\_id int NOT NULL,

personal\_details VARCHAR(255),

contact\_no int NOT NULL,

PRIMARY KEY (customer\_id),

CONSTRAINT FK\_addre FOREIGN KEY (address\_id) references addresses(address\_id),

CONSTRAINT FK\_brnch FOREIGN KEY (branch\_id) references branches(branch\_id)

);

CREATE TABLE bankDB.account\_types(

account\_type CHAR (255),

Account\_type\_description VARCHAR (255),

PRIMARY KEY (account\_type)

);

CREATE TABLE bankDB.accounts(

account\_no int NOT NULL,

account\_type CHAR NOT NULL,

account\_status CHAR,

customer\_id int NOT NULL,

current\_bal FLOAT,

other\_details VARCHAR(255),

PRIMARY KEY (account\_no),

CONSTRAINT FK\_acct\_type FOREIGN KEY (account\_type) references account\_types(account\_type),

CONSTRAINT FK\_custid FOREIGN KEY (customer\_id) references customers(customer\_id)

);

CREATE TABLE bankDB.transactions(

transaction\_id int NOT NULL,

account\_no int NOT NULL,

merchant\_id int NOT NULL,

transaction\_type char,

transaction\_date\_time datetime,

transaction\_amount FLOAT,

PRIMARY KEY (transaction\_id),

CONSTRAINT FK\_tran\_accnt\_no FOREIGN KEY (account\_no) references accounts(account\_no)

);