mysql> CREATE database HMBANK;

Query OK, 1 row affected (0.00 sec)

mysql> show databases;

+--------------------+

| Database |

+--------------------+

| HMBank |

| information\_schema |

| mysql |

| performance\_schema |

| sys |

| testdb |

+--------------------+

6 rows in set (0.00 sec)

mysql> use HMBank;

Database changed

mysql> create table Customers(

-> customer\_id int NOT NULL,

-> first\_name varchar(30) NOT NULL,

-> last\_name varchar(30) NOT NULL,

-> DOB Date NOT NULL,

-> EMAIL VARCHAR(30) UNIQUE,

-> phone\_number integer(10) NOT NULL,

-> address TEXT,

-> PRIMARY KEY (customer\_id)

-> );

Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> desc Customers;

+--------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+-------------+------+-----+---------+-------+

| customer\_id | int | NO | PRI | NULL | |

| first\_name | varchar(30) | NO | | NULL | |

| last\_name | varchar(30) | NO | | NULL | |

| DOB | date | NO | | NULL | |

| EMAIL | varchar(30) | YES | UNI | NULL | |

| phone\_number | int | NO | | NULL | |

| address | text | YES | | NULL | |

+--------------+-------------+------+-----+---------+-------+

7 rows in set (0.00 sec)

mysql> create table Accounts(

-> account\_id int NOT NULL,

-> customer\_id int NOT NULL,

-> account\_type ENUM('savings', 'current', 'zero\_balance') NOT NULL,

-> balance double(20,2),

-> PRIMARY KEY (account\_id),

-> FOREIGN KEY (customer\_id) REFERENCES Customers(customer\_id)

-> );

Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> desc Accounts;

+--------------+------------------------------------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+------------------------------------------+------+-----+---------+-------+

| account\_id | int | NO | PRI | NULL | |

| customer\_id | int | NO | MUL | NULL | |

| account\_type | enum('savings','current','zero\_balance') | NO | | NULL | |

| balance | double(20,2) | YES | | NULL | |

+--------------+------------------------------------------+------+-----+---------+-------+

4 rows in set (0.01 sec)

mysql> create table Transactions(

-> transaction\_id int NOT NULL,

-> account\_id int NOT NULL,

-> transaction\_type ENUM('deposit', 'withdrawal', 'transfer') NOT NULL,

-> amount double(20,2) NOT NULL,

-> transaction\_date Date NOT NULL,

-> PRIMARY KEY (transaction\_id),

-> FOREIGN KEY (account\_id) REFERENCES Accounts(account\_id)

-> );

Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> desc Transactions;

+------------------+-----------------------------------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------------+-----------------------------------------+------+-----+---------+-------+

| transaction\_id | int | NO | PRI | NULL | |

| account\_id | int | NO | MUL | NULL | |

| transaction\_type | enum('deposit','withdrawal','transfer') | NO | | NULL | |

| amount | double(20,2) | NO | | NULL | |

| transaction\_date | date | NO | | NULL | |

+------------------+-----------------------------------------+------+-----+---------+-------+

5 rows in set (0.00 sec)

mysql> ALTER TABLE Customers

-> MODIFY COLUMN phone\_number VARCHAR(15);

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc Customers;

+--------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+-------------+------+-----+---------+-------+

| customer\_id | int | NO | PRI | NULL | |

| first\_name | varchar(30) | NO | | NULL | |

| last\_name | varchar(30) | NO | | NULL | |

| DOB | date | NO | | NULL | |

| EMAIL | varchar(30) | YES | UNI | NULL | |

| phone\_number | varchar(15) | YES | | NULL | |

| address | text | YES | | NULL | |

+--------------+-------------+------+-----+---------+-------+

7 rows in set (0.00 sec)

mysql> show tables;

+--------------------------+

| Tables\_in\_banking\_system |

+--------------------------+

| Accounts |

| Customers |

| Transactions |

+--------------------------+

3 rows in set (0.01 sec)

mysql>