1)

mysql> CREATE TABLE customer (customer\_id INT NOT NULL,book\_issued VARCHAR(255) NOT NULL,name VARCHAR(255) NOT NULL,address VARCHAR(255) NOT NULL,reg\_date VARCHAR(255) NOT NULL,branch\_id INT NOT NULL,PRIMARY KEY(customer\_id),FOREIGN KEY(branch\_id)REFERENCES Branch(branch\_id));

Query OK, 0 rows affected (0.26 sec)

mysql> desc customer;

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

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

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

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

| book\_issued | varchar(255) | NO | | NULL | |

| name | varchar(255) | NO | | NULL | |

| address | varchar(255) | NO | | NULL | |

| reg\_date | varchar(255) | NO | | NULL | |

| branch\_id | int | NO | MUL | NULL | |

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

6 rows in set (0.01 sec)

2)

mysql> create table Authentication\_system(login\_id INT NOT NULL PRIMARY KEY,password VARCHAR(255) NOT NULL);

Query OK, 0 rows affected (0.11 sec)

mysql> select \* from Authentication\_system;

Empty set (0.00 sec)

mysql> desc Authentication\_system;

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

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

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

| login\_id | int | NO | PRI | NULL | |

| password | varchar(255) | NO | | NULL | |

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

2 rows in set (0.08 sec)

3)

mysql> CREATE TABLE Publisher(publisher\_id INT NOT NULL PRIMARY KEY,catgeory varchar(255) NOT NULL,retail\_price INT NOT NULL,publish\_year INT NOT NULL);

Query OK, 0 rows affected (0.11 sec)

4)

mysql> create table author(title title VARCHAR(255) NOT NULL,

-> author\_name VARCHAR(255) NOT NULL,

-> author\_name VARCHAR(255) NOT NULL,

mysql> create table author(title VARCHAR(255) NOT NULL PRIMARY KEY);

Query OK, 0 rows affected (0.03 sec)

5)

mysql> CREATE TABLE Staff

-> (

-> staff\_id INT NOT NULL,

-> name VARCHAR(255) NOT NULL,

-> salary INT NOT NULL,

-> branch\_id INT NOT NULL,

-> login\_id INT NOT NULL,

-> customer\_id INT NOT NULL,

-> PRIMARY KEY (staff\_id),

-> FOREIGN KEY (branch\_id) REFERENCES Branch(branch\_id),

-> FOREIGN KEY (login\_id) REFERENCES Authentication\_system(login\_id),

-> FOREIGN KEY (login\_id) REFERENCES Authentication\_system(login\_id);

6)

mysql> CREATE TABLE Staff

-> (

-> staff\_id INT NOT NULL,

-> name VARCHAR(255) NOT NULL,

-> salary INT NOT NULL,

-> branch\_id INT NOT NULL,

-> login\_id INT NOT NULL,

-> customer\_id INT NOT NULL,

-> PRIMARY KEY (staff\_id),

-> FOREIGN KEY (branch\_id) REFERENCES Branch(branch\_id),

-> FOREIGN KEY (login\_id) REFERENCES Authentication\_system(login\_id),

-> FOREIGN KEY (customer\_id) REFERENCES Customer(customer\_id));

Query OK, 0 rows affected (0.16 sec)

mysql> select \* from Staff;

Empty set (0.00 sec)

7)

mysql> CREATE TABLE Book

-> (

-> book\_id INT NOT NULL,

-> branch\_id INT NOT NULL,

-> publisher\_id INT NOT NULL,

-> title VARCHAR(255) NOT NULL,

-> PRIMARY KEY (book\_id),

-> FOREIGN KEY (branch\_id) REFERENCES Branch(branch\_id),

-> FOREIGN KEY (publisher\_id) REFERENCES Publisher(publisher\_id),

-> FOREIGN KEY (title) REFERENCES Author(title)

-> );

Query OK, 0 rows affected (0.26 sec)

8)

mysql> CREATE TABLE updates

-> (

-> login\_id INT NOT NULL,

-> book\_id INT NOT NULL,

-> PRIMARY KEY (login\_id, book\_id),

-> FOREIGN KEY (login\_id) REFERENCES Authentication\_system(login\_id),

-> FOREIGN KEY (book\_id) REFERENCES Book(book\_id)

-> );

Query OK, 0 rows affected (0.05 sec)

10)

mysql> CREATE TABLE Issue\_Status

-> (

-> issue\_id INT NOT NULL,

-> issue\_date VARCHAR(255) NOT NULL,

-> staus VARCHAR(255) NOT NULL,

-> customer\_id INT NOT NULL,

-> book\_id INT NOT NULL,

-> PRIMARY KEY (issue\_id),

-> FOREIGN KEY (customer\_id) REFERENCES Customer(customer\_id),

-> FOREIGN KEY (book\_id) REFERENCES Book(book\_id)

-> );

Query OK, 0 rows affected (0.06 sec)