

Mohammed Alom

Student No R00144214

Assignment No 2

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1. Write CREATE TABLE statements to create all the above tables, creating the appropriate primary and foreign keys. Please Write One Script for your answer.

Create Table Book

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CREATE TABLE Book

(ISBN	VARCHAR (10) NOT NULL,
title	VARCHAR (25),
edition	VARCHAR (15),
year	YEAR,

PRIMARY KEY (ISBN));

Create Table BookCopy

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CREATE TABLE BookCopy

(copyNo	VARCHAR (10) NOT NULL,
ISBN	VARCHAR (10),
available	ENUM('YES','NO'),

PRIMARY KEY (copyNo),

FOREIGN KEY (ISBN) REFERENCES Book(ISBN));

Create Table Borrower

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CREATE TABLE Borrower

(borrowerNo        VARCHAR (6)   NOT NULL,  
borrowerName       VARCHAR (20),  
borrowerAddress    VARCHAR (30),

PRIMARY KEY (borrowerNo));

Create Table BookLoan

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CREATE TABLE BookLoan

(copyNo        VARCHAR (10)   NOT NULL,  
dateOut        Date,  
dateDue        Date,  
borrowerNo    VARCHAR (6),

PRIMARY KEY (copyNo,dateOut),

FOREIGN KEY (borrowerNo) REFERENCES Borrower(borrowerNo));

Commit;

2. Write an INSERT statement for each table to insert 3 records into each table. Please Write One Script for your answer.

Insert Book Table

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INSERT INTO Book VALUES ('ISBN001122', 'Learn MySql', '2nd', '2015');

INSERT INTO Book VALUES ('ISBN003344', 'Learn Java', '5th', '2014');

INSERT INTO Book VALUES ('ISBN005566', 'Make Programming Easy', '3rd', '2017');

Insert BookCopy Table

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```
INSERT INTO BookCopy VALUES ('BCSQL01', 'ISBN001122', 'YES');
INSERT INTO BookCopy VALUES ('BCLJA03', 'ISBN003344', 'YES');
INSERT INTO BookCopy VALUES ('BCMPE01', 'ISBN005566', 'NO');
```

Insert Borrower Table

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```
INSERT INTO Borrower VALUES ('ST0123', 'Mohammed Khan', 'Cork City');
INSERT INTO Borrower VALUES ('ST0456', 'James OBrain', 'Douglas South Side');
INSERT INTO Borrower VALUES ('ST0789', 'Marry Ocallaghan', 'Blackrock');
```

Insert BookLoan Table

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```
INSERT INTO BookLoan VALUES ('BCSQL01', '170306', '170311', 'ST0123');
INSERT INTO BookLoan VALUES ('BCLJA03', '170115', '170122', 'ST0456');
INSERT INTO BookLoan VALUES ('BCMPE01', '170223', '170227', 'ST0789');
```

Commit;

3. Write a SQL statement to modify a record in each table. Please Write One Script for your answer.

Table - Book

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Update	Book
set	title ='C++'
where	ISBN = 'ISBN003344';

#### Table - Book Copy

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```
Update      Bookcopy
set         available = 'YES'
where      copyNo = 'BCMPE01';
```

#### Table - BookLoan

---

```
Update      Bookloan
set         dateDue = '2017-01-25'
where      copyNo = 'BCLJA03';
```

#### Table - Borrower

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```
Update      Borrower
set         borrowerName = 'Mohammed Alom' borrowerAddress = 'Blarney St'
where      borrowerNo = 'ST0123';
```

```
commit;
```

4. Write a script to delete all the records from all the tables. Please Write One Script for your answer.

To delete record from the tabel.

```
delete from book;
```

```
delete from bookcopy;
```

```
delete from borrower;
```

```
delete from bookloan;
```

5. Write a script to show how you would remove all tables. Please Write One Script for your answer.

To delete all the tabel from the database ---

Drop database library\_system;

will delete all the table as well as database.