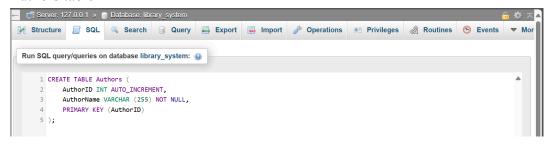
# SCS2209 Database II Labsheet 01

Name: K D I Okadini Index No: 22001433

### **Question 01**

1.

#### a. Authors table



#### b. Books table

```
Server 127.0.0.1 » Database library system

Structure SQL Search Query Export Import Operations Privileges Routines Events Mor

Run SQL query/queries on database library_system:

1 CREATE TABLE Books (
2 BookID INT AUTO_INCREMENT,
3 Title VARCHAR (255) NOT NULL,
4 AuthorID INT,
5 Published/ear YEAR,
6 PRIMARY KEY (BookID),
7 FOREIGN KEY (AuthorID) REFERENCES Authors (AuthorID)
8 );
```

### c. BorrowedBooks table

```
Structure SQL Search Query Export Import Operations Privileges Routines Events Mor

Run SQL query/queries on database library_system:

1 CREATE TABLE BorrowedBooks (
2 BorrowID INT AUTO_INCREMENT,
3 BookID INT,
4 Borrowename VARCHAR (255),
5 BorrowDate DATE,
6 ReturnDate DATE,
7 PRIMARY KEY (BorrowID),
8 FOREIGN KEY (BookID) REFERENCES Books(BookID)
9 );
```

```
Structure SQL Search Query Export Import Operations Privileges Routines Normalization More Run SQL query/queries on database library_system:

1 INSERT INTO `Authors`(`AuthorName`)
2 VALUES
3 ('J.K.Rowling'),
4 ('George R.R.Martin'),
5 ('J.R.R.Tolkien');
```

3.

```
Server: 127.0.0.1 ** Database: library system

Structure SQL Search Query Export Import Operations Privileges Routines Events Mor

Run SQL query/queries on database library_system:

1 INSERT INTO 'Books' ('Title', 'AuthorID', 'PublishedYear')
2 VALUES
3 ("Harry Potter and the Philosopher's Stone",1,1997),
4 ("A Game of Thrones",2,1996),
5 ("The Lord of the Rings",3,1954);
```

4

```
Structure SQL Search Query Export Import Operations Privileges Routines Vents Mor

Run SQL query/queries on database library_system:

1 INSERT INTO `BorrowedBooks`(`BookId`,`BorrowerName`,`BorrowDate`,`ReturnDate`)
2 VALUES
3 (1,"Alice",'2024-11-01','2024-11-10'),
4 (2,"Bob",'2024-1105',NULL);
5
```

```
Server: 127.0.0.1 > Database: library_system

Structure SQL Query Query Export Import Privileges Routines ✓ More

Run SQL query/queries on database library_system:

1 DELIMITER $$

2 CREATE PROCEDURE AddBook (IN p_Title VARCHAR(255), IN p_AuthorID INT, IN p_PublishedYear YEAR)

4 BEGIN

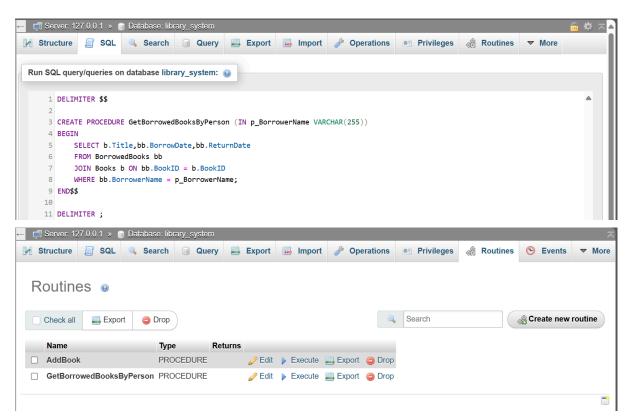
INSERT INTO Books(Title,AuthorID,PublishedYear)

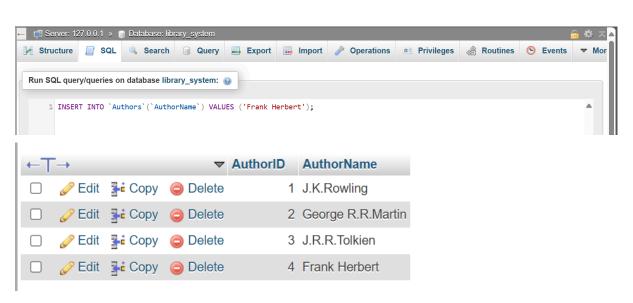
VALUES (p_Title,p_AuthorID,p_PublishedYear);

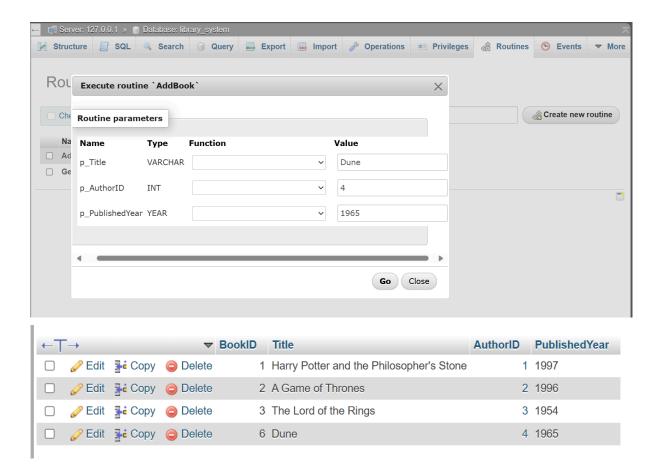
END$$

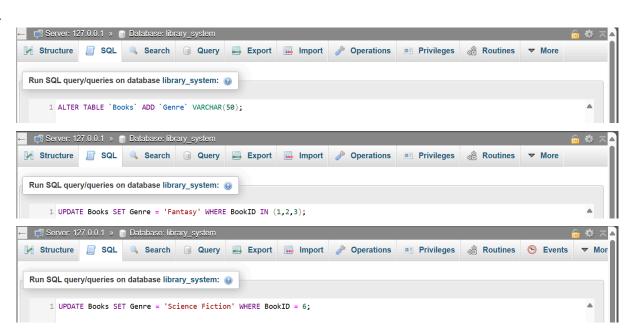
BDELIMITER;
```

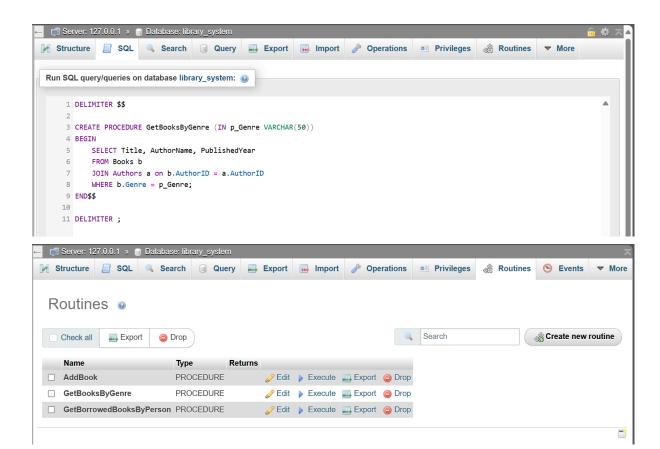












## **Question 02**

1.

a. Doctors Table

```
■ Server: 127.0.0.1 »
                        Database: hospital administration system
M Structure
              SQL
                         Search
                                     Query
                                                Export
                                                             Import
 Run SQL query/queries on database hospital administration system:
      1 CREATE TABLE Doctors (
            DoctorID INT AUTO_INCREMENT,
            DoctorName VARCHAR(255) NOT NULL,
      3
            Specialization VARCHAR(255) NOT NULL,
      5
            Phone VARCHAR(15) UNIQUE,
            PRIMARY KEY(DoctorID)
      6
      7);
```

b. Patients Table

```
Server: 127.0.0.1 » 📵 Database: hospital administration system
Structure
               📺 SQL
                         Search
                                      Query
                                                 Export
                                                             Import
 Run SQL query/queries on database hospital_administration_system: (a)
      1 CREATE TABLE Patients(
      2
            PatientID INT AUTO_INCREMENT,
            PatientName VARCHAR(255) NOT NULL,
      3
            DateOfBirth DATE NOT NULL,
            Phone VARCHAR(15) NOT NULL,
      5
            PRIMARY KEY (PatientID)
      6
      7);
```

c. Appointments Table

```
Server: 127.0.0.1 » 📵 Database: hospital_administration_system
Structure
                        Search
                                                Export Import
                                                                       Operations
              SQL
                                    Query
 Run SQL query/queries on database hospital_administration_system: (a)
      1 CREATE TABLE Appointments (
            AppointmentID INT AUTO_INCREMENT,
      2
            PatientID INT,
      3
            DoctorID INT,
           AppointmentDate DATE NOT NULL,
            Status ENUM('Scheduled','Completed','Cancelled') NOT NULL,
           PRIMARY KEY (AppointmentID),
           FOREIGN KEY (PatientID) REFERENCES Patients(PatientID),
      8
            FOREIGN KEY (DoctorID) REFERENCES Doctors(DoctorID)
      9
     10);
```

d. Treatments Table

```
Server: 127.0.0.1 » 🝵 Database: hospital_administration_system
                     Search
Structure
                              Query
                                        Export | Import
                                                            Operations
            SQL
 1 CREATE TABLE Treatments(
          TreatmentID INT AUTO_INCREMENT,
     3
          AppointmentID INT,
          TreatmentDescription VARCHAR(255) NOT NULL,
          TreatmentCost DECIMAL(10,2) NOT NULL,
     5
         PRIMARY KEY (TreatmentID),
     7
          FOREIGN KEY (AppointmentID) REFERENCES Appointments(AppointmentID)
     8);
```

```
Server: 127.0.0.1 » 📵 Database: hospital administration system
                           Search  Query  Export  Import  Operations
               SQL
                                                                                                Privileges
Structure
 Run SQL query/queries on database hospital_administration_system: (a)
      1 INSERT INTO `Doctors`(`DoctorName`,`Specialization`,`Phone`) VALUES
      2 ("Dr. Alice Brown", "Cardiology", 1234567890),
      3 ("Dr. Bob Smith", "Neurology", 2345678901),
      4 ("Dr. Carol White", "Orthopedics", 3456789012),
      5 ("Dr. Daniel Green", "Dermatology", 4567890123);
      7 INSERT INTO `Patients`(`PatientName`,`DateOfBirth`,`Phone`) VALUES
      8 ("John Doe", '1990-01-15', 9876543210),
      9 ("Jane Roe", '1985-05-20', 8765432109),
     10 ("James Black", '2000-03-10', 7654321098),
     11 ("Emily Davis", '1995-07-25', 6543210987);
     12
     13 INSERT INTO `Appointments` (`PatientID`, `DoctorID`, `AppointmentDate`, `Status`) VALUES
     14 (1,1,'2024-11-01',"Scheduled"),
     15 (2,2,'2024-11-05',"Completed"),
     16 (3,3,'2024-11-08',"Scheduled"),
     17 (4,4,'2024-11-10',"Cancelled");
  3.
📝 Structure 📗 SQL 🔍 Search 🏿 Query 🔜 Export 逼 Import 🤌 Operations 💌 Privileges 🖓 Routines 🕙 Events 🗯 Triggers
Run SQL query/queries on database hospital_administration_system: 

    1 DELIMITER $$
    3 CREATE PROCEDURE AddNewAppointment (IN p_PatientID INT,IN p_DoctorID INT, IN p_AppointmentDate DATE, IN p_Status VARCHAR(20))
        INSERT INTO `Appointments`(`PatientID`,`DoctorID`,`AppointmentDate`,`Status`) VALUES (p_PatientID,p_DoctorID,p_AppointmentDate,p_Status);
    6 END$$
    8 DELIMITER;
  ■ Server: 127.0.0.1 » ■
Structure
                SQL
                                                                               Operations
                           Search
                                        Query
                                                    Export
                                                                  Import
                                                                                                 Privileges
  Run SQL query/queries on database hospital_administration_system: 

      1 DELIMITER $$
       3 CREATE PROCEDURE UpdateTreatmentCost (IN p_TreatmentID INT, IN NewCost DECIMAL(10,2))
             UPDATE Treatments
             SET TreatmentCost = NewCost
             WHERE TreatmentID = p_TreatmentID;
      8 END$$
      10 DELIMITER;
```

