Assignment 10 (a & b)

a) Relation between category and Sports data

In Sports table we will have multiple categories for example:

SID (Primary Key)	S_Name	CID (Foreign key)
S1	Abc	SP01
S2	Xyz	SP02
S3	ghi	SP01
S4	Jhi	SP02

While Cid is Primary key in Category table.

So the relation between sports and Category is one to many because one category which is Primary key in category table can be used multiple times in Sports Table.

Implementation of Structure:

1. Creating database:

Create database bigdata2;

```
MariaDB [Ass10]> create database bigdata2;
Query OK, 1 row affected (0.138 sec)
```

2. Creating Table Bank_Data:

Create table bank_data(Bid int not null, B_Name varchar(45) not null , Country varchar(35) not null , City varchar(35) not null);

```
MariaDB [bigdata2]> Create table bank_data(Bid int not
null, B_Name varchar(45) not null , Country varchar(35)
 not null , City varchar(35) not null );
Query OK, 0 rows affected (1.320 sec)
```

3. Creating Table Medical_Data:

Create table Medical_data(Mid int not null, M_Name varchar(45) not null , Speciality varchar(45) not null);

```
MariaDB [bigdata2]> Create table Medical_data(Mid int n
ot null, M_Name varchar(45) not null , Speciality varch
ar(45) not null );
Query OK, 0 rows affected (0.602 sec)
```

4. Creating Table Sports_Data:

Create table sports_data(Sid int not null , S_Name varchar(45) not null , Cid varchar(45) not null);

```
MariaDB [bigdata2]> create table sports_data(Sid int no
t null , S_Name varchar(45) not null , Cid varchar(45)
not null);
Query OK, 0 rows affected (1.249 sec)
```

5. Creating table Category:

Create table category(Cid varchar(45) not null , Cname varchar(45) not null);

```
MariaDB [bigdata2]> Create table category(Cid varchar(4
5) not null , Cname varchar(45) not null);
Query OK, 0 rows affected (1.576 sec)
```

6. Creating Table User_dashboard:

Create table user_dashboard(Bid int not null, Mid int not null , Sid int not null);

```
MariaDB [bigdata2]> Create table user_dashboard(Bid int
 not null, Mid int not null , Sid int not null);
Query OK, 0 rows affected (1.319 sec)
```

7. Adding Primary Key in Bank_Data:

Alter table Bank_data add constraint Pk Primary Key(Bid);

```
MariaDB [bigdata2]> Alter table Bank_data add constrain
t Pk Primary Key(Bid);
Query OK, 0 rows affected, 1 warning (1.028 sec)
Records: 0  Duplicates: 0  Warnings: 1
```

8. Adding Primary Key in Medical_Data:

Alter table Medical_data add constraint Pk Primary Key(Mid);

```
MariaDB [bigdata2]> Alter table Medical_data add constr
aint Pk Primary Key(Mid);
Query OK, 0 rows affected, 1 warning (0.496 sec)
Records: 0  Duplicates: 0  Warnings: 1
```

9. Adding Primary Key in category:

Alter table Category add constraint Pk Primary Key(Cid);

```
MariaDB [bigdata2]> Alter table Category add constraint
 Pk Primary Key(Cid);
Query OK, 0 rows affected, 1 warning (0.428 sec)
Records: 0  Duplicates: 0  Warnings: 1
```

10. Adding Primary Key in Sports_data:

Alter table Sports_data add constraint Pk Primary Key(Sid);

```
MariaDB [bigdata2]> Alter table Sports_data add constra
int Pk Primary Key(Sid);
Query OK, 0 rows affected, 1 warning (1.648 sec)
Records: 0  Duplicates: 0  Warnings: 1
```

11.Adding foreign key in Sports_data:

Alter table Sports_data
add constraintforeign key (Cid) references category(Cid);

```
MariaDB [bigdata2]> ALTER TABLE Sports_data  ADD CONSTR
AINT FK  FOREIGN KEY (Cid) REFERENCES Category(Cid);
Query OK, 0 rows affected (2.275 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

12.Foreign Keys and Composite Primary key in User_dashboard:

Alter table user_dashboard add constraint fk1 foreign key(Bid) references Bank_data(Bid);

```
MariaDB [bigdata2]> Alter table user_dashboard add cons
traint fk1 foreign key(Bid) references Bank_data(Bid);
Query OK, 0 rows affected (1.893 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

Alter table user_dashboard add constraint fk2 foreign key(Mid) references Medical_data(Mid);

```
MariaDB [bigdata2]> Alter table user_dashboard add cons
traint fk2 foreign key(Mid) references Medical_data(Mid
);
Query OK, 0 rows affected (0.599 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

Alter table user_dashboard add constraint fk3 foreign key(Sid) references Sports_data(Sid);

```
MariaDB [bigdata2]> Alter table user_dashboard add cons
traint fk3 foreign key(Sid) references Sports_data(Sid)
;
Query OK, 0 rows affected (0.959 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

Alter table user_dashboard add constraint PK Primary Key(Bid, Mid , Sid);

```
MariaDB [bigdata2]> Alter table user_dashboard add cons
traint PK Primary Key(Bid, Mid , Sid);
Query OK, 0 rows affected, 1 warning (1.414 sec)
Records: 0  Duplicates: 0  Warnings: 1
```

b) Procedures

Table: Bank_data

Delimiter #
create procedure insertinBD(In Bid int ,In B_Name varchar(45),In city varchar(35) ,In country varchar(35))
Begin
Insert into Bank_data(Bid , B_Name , City , Country) values(Bid , B_Name , city , country);
End #

```
MariaDB [bigdata2]> delimiter #
MariaDB [bigdata2]> create procedure insertinBD(In Bid
int ,In B_Name varchar(45),In city varchar(35) ,In coun
try varchar(35))
    -> begin
    -> Insert into Bank_data(Bid , B_Name , City , Coun
try) values(Bid , B_Name , city , country);
    -> end #
Query OK, 0 rows affected (0.375 sec)
```

Table : Medical_data

```
Delimiter #
create procedure insertinMD(In Mid int ,In M_Name varchar(45), In Speciality varchar(45))
Begin
Insert into Medical_data(Mid , M_Name , Speciality) values(Mid , M_Name ,Speciality);
End #
```

```
MariaDB [bigdata2]> Delimiter #
MariaDB [bigdata2]> create procedure insertinMD(In Mid
int ,In M_Name varchar(45), In Speciality varchar(45))
    -> Begin
    -> Insert into Medical_data(Mid , M_Name , Speciali
ty) values(Mid , M_Name ,Speciality);
    -> end #
Query OK, 0 rows affected (0.590 sec)

MariaDB [bigdata2]>
```

Table: Category

```
Delimiter #
Create procedure insertinC(In Cid int ,In C_Name varchar(45))
Begin
Insert into Category(Cid , C_Name) values(Cid , C_Name);
End #
```

```
MariaDB [bigdata2]> Delimiter #
MariaDB [bigdata2]> create procedure insertinC(In Cid int ,In
C_Name varchar(45))
    -> Begin
    -> Insert into Category(Cid , C_Name) values(Cid , C_Name)
;
    -> end #
Query OK, 0 rows affected (0.124 sec)

MariaDB [bigdata2]>
```

Table: Sports_data

```
Delimiter #
create procedure insertinSD(In Sid int ,In S_Name varchar(45), In Cid
varchar(45))
Begin
Insert into Sports_data(Sid , S_Name , Cid) values(Sid , S_Name , Cid);
End #
```

```
MariaDB [bigdata2]> Delimiter #
MariaDB [bigdata2]> create procedure insertinSD(In Sid
int ,In S_Name varchar(45), In Cid varchar(45))
    -> begin
    -> Insert into Sports_data(Sid , S_Name , Cid) valu
es(Sid , S_Name , Cid);
    -> end #
Query OK, 0 rows affected (0.131 sec)

MariaDB [bigdata2]>
```

Table: User_Dashboard

```
Delimiter #
create procedure InsertinUD(In Bid int, In Mid int , In Sid int)
begin
Insert into user_dashboard(Bid , Mid , Sid) values(Bid, Mid , Sid);
end #
```

```
MariaDB [bigdata2]> delimiter #
MariaDB [bigdata2]> create procedure InsertinUD(In Bid int, In
 Mid int , In Sid int)
    -> begin
    -> Insert into user_dashboard(Bid , Mid , Sid) values(Bid,
 Mid , Sid);
    -> end #
Query OK, 0 rows affected (0.150 sec)

MariaDB [bigdata2]>
```