sASSIGNMENT-2

Q1).

(i) Create, update and delete commands in sql.

Ans).

**Creating Tables** 

```
mysql> use vit_university
Database changed
mysql> # IshanSati 20BCT0201
mysql> create table Employee(
    -> First_Name varchar(15),
    -> Mid_Name char(2),
    -> Last_Name varchar(15),
    -> SSN_Number char(9),
    -> Birthday Date,
    -> Address varchar(50),
    -> Sex char(1),
    -> Salary int(7),
    -> Supervisor_SSN char(9),
    -> Department_Number int(5));
Query OK, 0 rows affected, 2 warnings (0.18 sec)
```

```
mysql> #ISHAN SATI 20BCT0201
mysql>
mysql> create table Department(
    -> Department_name varchar(15),
    -> Department_Number int(5),
    -> Manager_SSN char(9),
    -> Manage_Start_Date date); #ISHAN SATI 20BCT0201
Query OK, 0 rows affected, 1 warning (0.07 sec)
```

#### **Inserting Values:**

Query OK, 1 row affected (0.02 sec)

```
mysql>
mysql> #ISHAN SATI 20BCT0201
mysql> insert into Employee values('Doug', 'E', 'Gilbert', 123, '1968-06-09', 'Chennai','M', 80000, NULL, 1)
Query OK, 1 row affected (0.07 sec)
mysql> ISHAN SATI 20BCT0201
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL ser
ver version for the right syntax to use near 'ISHAN SATI 20BCT0201' at line 1
mysql>
mysql> #ISHAN SATI 20BCT0201
mysql> insert into Employee values('Joyce', NULL, 'Pan', 124, '1973-02-07', 'Vellore', 'F', 70000, NULL,1);
Query OK, 1 row affected (0.03 sec)
mysql> insert into Employee values('Franklin', 'T', 'Wong', 125, '1972-12-08', 'Delhi', 'M', 40000, 123, 2);
#ISHAN SATI 20BCT0201
Query OK, 1 row affected (0.02 sec)
mysql> #ISHAN SATI 20BCT0201
mysql> insert into Employee values("Jennifer", "S", "Wallace", 564, "1983-86-20", "Chennai", "F", 43000, 123
2):
Query OK, 1 row affected (0.03 sec)
musql> #ISHAN SATI 20BCT0201
mysql> insert into Employee values('John', 'B', 'Smith', 678, '1987-01-09', 'Madurai', 'M', 30000, 124,1);
Query OK, 1 row affected (0.02 sec)
mysql> #ISHAN SATI 20BCT0201
mysql> insert into Employee values('Ramesh', 'K', 'Narayan', 234, '1985-09-15', 'Banglore', 'M', 38000,124,3)
Query OK, 1 row affected (0.03 sec)
mysql>
mysql> insert into Department values('Headquarter',1,678,'2014-12-16')
Query OK, 1 row affected (0.02 sec)
mysql> #ISHAN SATI 20BCT0201
mysql> insert into Department values('Finance',3,234,'2013-05-18');
Query OK, 1 row affected (0.03 sec)
mysql> #ISHAN SATI 20BCT0201
mysql> insert into Department ∪alues('IT', 4,123,'2015-06-12');
Query OK, 1 row affected (0.03 sec)
mysql> insert into Department values('Administration', 2,564,'2012-01-03');
Query OK, 1 row affected (0.02 sec)
mysql> #ISHAN SATI 20BCT0201
mysql> insert into Project ∪alues('ProjectA', 3388, 'Delhi',1);
Query OK, 1 row affected (0.04 sec)
mysql> #ISHAN SATI 20BCT0201
mysql> insert into Project values('ProjectB',1945,'Hyedrabad',1);
Query OK, 1 row affected (0.02 sec)
mysql> #ISHAN SATI 20BCT0201
mysql> insert into Project values('ProjectC',6688,'Chennai',2);
Query OK, 1 row affected (0.02 sec)
mysql> #ISHAN SATI 20BCT0201
mysql> insert into Project values('ProjectD', 2423,'Chennai',2);
```

## Using Update

```
mysq1>
mysq1> #ISHAN SATI 20BCT0201
mysq1> update Employee
    -> set Department_Number = 2
    -> where First_Name = 'Joyce';
Query OK, 1 row affected (0.07 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysq1> _
```

```
mysql> #ISHAN SATI 20BCT0201
mysql> UPDATE Department
-> set Department_Phone_Number = '0987654321'
-> where Department_name= 'Finance';
Query OK, 1 row affected (0.02 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

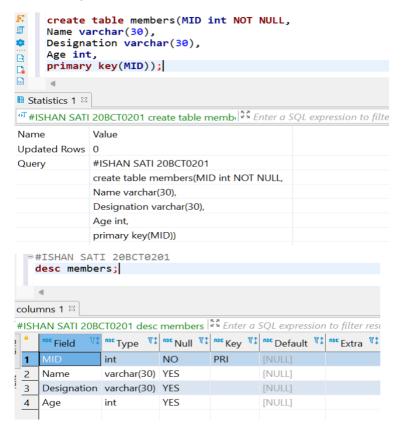
### Using Alter:

```
mysql> alter table Department
-> rename column Department_Phone_Number to PhNo;
Query OK, 0 rows affected (0.20 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

(ii) Create tables and perform joins in sql.

Ans).

# **Creating Tables**



```
create table books(BID int NOT NULL,
      Btitle varchar(200),
<u>F</u>
     Bauthor varchar(200),
▦
     Bprice int,
      primary key(BID));
■ Statistics 1 \( \times \)
oT#ISHAN SATI 20BCT0201 create table books( Enter a SQL
Name
               Value
Updated Rows 0
               #ISHAN SATI 20BCT0201
Query
               create table books(BID int NOT NULL,
               Btitle varchar(200).
               Bauthor varchar(200),
               Bprice int,
               primary key(BID))
     create table Reserves(MID int,
F
     BID int,
K
     Date date,
ø
     foreign key(MID) references members(MID),
     foreign key(BID) references books(BID),
\blacksquare
     primary key(MID,BID));
■ Statistics 1 \( \times \)
oT #ISHAN SATI 20BCT0201 create table Reserve Enter a SQL expressio
Name
               Value
Updated Rows 0
Query
               #ISHAN SATI 20BCT0201
               create table Reserves(MID int,
               BID int,
               Date date.
               foreign key(MID) references members(MID),
               foreign key(BID) references books(BID),
               primary key(MID,BID))
```

## **Inserting Values:**

```
insert into members values(1,"ishan","boss",20);
insert into members values(2,"shailesh","officer",50);
insert into members values(3,"parul","manager",45);
insert into members values(4,"ayaan","worker",11);

Statistics 1 

Statistics 1 

Finsert into members values(4,"ayaan","worker",11)

Value

Updated Rows 1

Query insert into members values(4,"ayaan","worker",11)
```

```
insert into reserves values(1,1,'2021-2-23');
insert into reserves values(2,3,'2021-3-23');
insert into reserves values(2,4,'2021-6-12');
insert into reserves values(3,2,'2020-5-10');

Statistics 1 

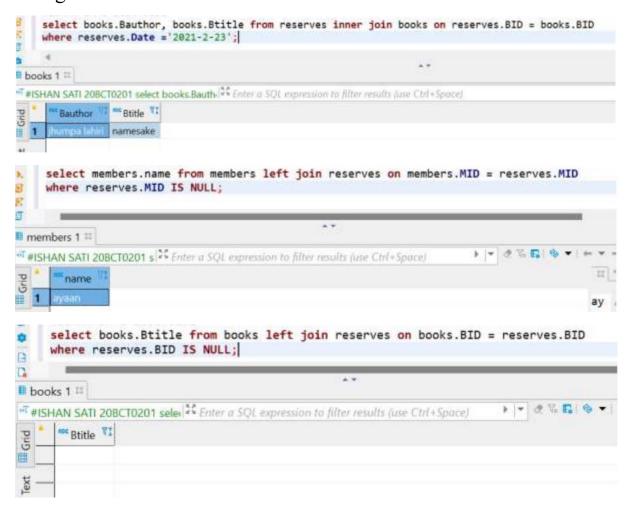
OT insert into reserves values(3,2,'2020-5-10')

Name Value

Updated Rows 1

Query insert into reserves values(3,2,'2020-5-10')
```

### Using Join:



### (iii) Create, update and delete commands in Mongo

```
Please enter a MongoDB connection string (Default: mongodb://localhost/): mongodb://localhost
mongodb://localhost
Current Mongosh Log ID: 647362568a2971696b5c94cf
Connecting to: mongodb://localhost/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1.3.1
Using MongoDB: 5.0.7
Using Mongosh: 1.3.1

For mongosh info see: https://docs.mongodb.com/mongodb-shell/
-----
The server generated these startup warnings when booting: 2023-05-21T04:18:59.553+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
```

```
test> show dbs
SmartBridge
                             8.19 kB
Target
                             57.3 kB
admin
                               41 kB
config
                              111 kB
local
                             94.2 kB
mongodbVSCodePlaygroundDB
                               41 kB
test> use SmartBridge
switched to db SmartBridge
SmartBridge> db.creteCollection(name,options)
ReferenceError: name is not defined
SmartBridge> show collections
Smart
SmartBridge> db.mycollections.drop()
SmartBridge> db.mycollection.drop
[Function: drop] AsyncFunction {
  apiVersions: [ 1, Infinity ],
  returnsPromise: true,
  serverVersions: [ '0.0.0', '999.999.999'],
  topologies: [ 'ReplSet', 'Sharded', 'LoadBalanced', 'Standalone' ],
returnType: { type: 'unknown', attributes: {} },
  deprecated: false,
  platforms: [ 0, 1, 2 ],
  isDirectShellCommand: false,
  acceptsRawInput: false,
  shellCommandCompleter: undefined,
  help: [Function (anonymous)] Help
```

```
SmartBridge> db.mycol.insert({
... _id:ObjectId,
... title: "Intern",
... description: "MongoDB Practice",
... })
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
  acknowledged: true,
  insertedIds: {
    '0': [Function: ObjectId] {
      getInc: [Function (anonymous)],
      generate: [Function (anonymous)],
      createPk: [Function (anonymous)],
      createFromTime: [Function (anonymous)],
      createFromHexString: [Function (anonymous)],
      isValid: [Function (anonymous)],
      fromExtendedJSON: [Function (anonymous)],
      index: 8028621,
      help: [Function (anonymous)] Help
```