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|-------------|---|---|
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| REG.NO | : | 20BCT0029 |
| COURSE NAME | : | Modern Application Development (Java Spring Boot) |
| DATE | : | 25 - 05 - 2023 |

ASSIGNMENT -02

QUESTION:

Assignment

create ,update,delete commands in mysql
create tables and perform joins in mysql
create ,update,delete commands in mongo

MYSQL

I)CREATE

```
C:\Users\CHIBHIRAJ>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 16
Server version: 10.4.22-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| da       |
| information_schema |
| ipwt     |
| mysql    |
| performance_schema |
| phpmyadmin |
| spring   |
| test     |
+-----+
8 rows in set (0.037 sec)

MariaDB [(none)]> use spring;
Database changed
```

II) UPDATE

```
MariaDB [spring]> create table student (sno int ,name varchar(20), reg varchar(20),course varchar(20));
Query OK, 0 rows affected (0.030 sec)

MariaDB [spring]> insert into student values(1, 'chibhi','20bct0029','cse');
Query OK, 1 row affected (0.055 sec)

MariaDB [spring]> insert into student values(2,'raj','20bee0099','ece');
Query OK, 1 row affected (0.002 sec)

MariaDB [spring]> insert into student values(3,'kumar','20bce039','eee');
Query OK, 1 row affected (0.002 sec)

MariaDB [spring]> select * from student;
+-----+-----+-----+-----+
| sno | name | reg | course |
+-----+-----+-----+-----+
| 1 | chibhi | 20bct0029 | cse |
| 2 | raj | 20bee0099 | ece |
| 3 | kumar | 20bce039 | eee |
+-----+-----+-----+-----+
3 rows in set (0.007 sec)

MariaDB [spring]> update student set course='civil' where name='raj';
Query OK, 1 row affected (0.017 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [spring]> select * from student;
+-----+-----+-----+-----+
| sno | name | reg | course |
+-----+-----+-----+-----+
| 1 | chibhi | 20bct0029 | cse |
| 2 | raj | 20bee0099 | civil |
| 3 | kumar | 20bce039 | eee |
+-----+-----+-----+-----+
3 rows in set (0.001 sec)
```

III) DELETE

```
MariaDB [spring]> delete from student where name='kumar';
Query OK, 0 rows affected (0.001 sec)

MariaDB [spring]> select * from student;
+-----+-----+-----+-----+
| sno | name | reg | course |
+-----+-----+-----+-----+
| 1 | chibhi | 20bct0029 | cse |
| 2 | raj | 20bee0099 | civil |
+-----+-----+-----+-----+
2 rows in set (0.001 sec)
```

IV) JOINS

```
MariaDB [spring]> select * from info;
```

| reg | place | grade |
|-----------|------------|-------|
| 20bct0029 | erode | A |
| 20bee099 | coimbatore | S |
| 20ble039 | madurai | B |

```
3 rows in set (0.001 sec)
```

```
MariaDB [spring]> select * from student;
```

| sno | name | reg | course |
|-----|--------|-----------|--------|
| 1 | chibhi | 20bct0029 | cse |
| 2 | raj | 20bee0099 | civil |
| 3 | nitish | 20ble039 | mech |
| 4 | badri | 20bai101 | AI |

```
4 rows in set (0.001 sec)
```

```
MariaDB [spring]> select student.name,student.reg,student.course from student  
inner join info on info.reg=student.reg;
```

| name | reg | course |
|--------|-----------|--------|
| chibhi | 20bct0029 | cse |
| nitish | 20ble039 | mech |

```
2 rows in set (0.013 sec)
```

```
MariaDB [spring]> select student.name,student.reg,student.course from student  
left join info on info.reg=student.reg;
```

| name | reg | course |
|--------|-----------|--------|
| chibhi | 20bct0029 | cse |
| nitish | 20ble039 | mech |
| raj | 20bee0099 | civil |
| badri | 20bai101 | AI |

```
4 rows in set (0.002 sec)
```

```
MariaDB [spring]> select student.name,student.reg,student.course from student  
right join info on info.reg=student.reg;
```

| name | reg | course |
|--------|-----------|--------|
| chibhi | 20bct0029 | cse |
| nitish | 20ble039 | mech |
| NULL | NULL | NULL |

```
3 rows in set (0.001 sec)
```

```
MariaDB [spring]> select name from student cross join info;
```

| name |
|--------|
| chibhi |
| chibhi |
| chibhi |
| raj |
| raj |
| raj |
| nitish |
| nitish |
| nitish |
| badri |
| badri |
| badri |

```
12 rows in set (0.001 sec)
```

```
MariaDB [spring]> select place from info cross join student;
```

| place |
|------------|
| erode |
| coimbatore |
| madurai |
| erode |
| coimbatore |
| madurai |
| erode |
| coimbatore |
| madurai |
| erode |
| coimbatore |
| madurai |

```
12 rows in set (0.001 sec)
```

MONGODB

Selecting databases:

```
> _MONGOSH
```

```
> show dbs
```

```
< Course      8.00 KiB
  admin       40.00 KiB
  config      72.00 KiB
  fruits     112.00 KiB
  local       80.00 KiB
  test       144.00 KiB
```

```
> use Course
```

```
< switched to db Course
```

```
> db
```

```
< Course
```

Inserting (InsertOne)

```
> db.course.insertOne({name:"chibhi"})
< {
  acknowledged: true,
  insertedId: ObjectId("64732b159db9c0e5c478e6f8")
}
> db.course.insertOne({name:"raj"})
< {
  acknowledged: true,
  insertedId: ObjectId("64732b1f9db9c0e5c478e6f9")
}
> db.course.insertOne({name:"raj", course:"ece", reg:"20bct0029",place:"erode"});
< {
  acknowledged: true,
  insertedId: ObjectId("64732d0d9db9c0e5c478e6fa")
}
> db.course.insertOne({name:"nitish", course:"cse", reg:"20bce300",place:"cbe"});
< {
  acknowledged: true,
  insertedId: ObjectId("64732d2a9db9c0e5c478e6fb")
}
```

InsertMany

```
> db.course.insertMany([{name:"badri", course:"cse", reg:"20bce183",place:"trichy"},{name:"jai",course:"civil",reg:"20bcl0122",place:"hosur"}]);
< {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("64732e419db9c0e5c478e6fc"),
    '1': ObjectId("64732e419db9c0e5c478e6fd")
  }
}
```

Find():

```
> db.course.find();
< {
  _id: ObjectId("64732b159db9c0e5c478e6f8"),
  name: 'chibhi'
}
{
  _id: ObjectId("64732b1f9db9c0e5c478e6f9"),
  name: 'raj'
}
{
  _id: ObjectId("64732d0d9db9c0e5c478e6fa"),
  name: 'raj',
  course: 'ece',
  reg: '20bct0029',
  place: 'erode'
}
{
  _id: ObjectId("64732d2a9db9c0e5c478e6fb"),
  name: 'nitish',
  course: 'cse',
  reg: '20bce300',
  place: 'cbe'
}
```

```
{
  _id: ObjectId("64732e419db9c0e5c478e6fc"),
  name: 'badri',
  course: 'cse',
  reg: '20bce183',
  place: 'trichy'
}
{
  _id: ObjectId("64732e419db9c0e5c478e6fd"),
  name: 'jai',
  course: 'civil',
  reg: '20bcl0122',
  place: 'hosur'
}
```

Update:

```
> db.course.updateOne({name:"badri"},{$set:{course:"mech"}})
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```


After updating:

```
{
  _id: ObjectId("64732e419db9c0e5c478e6fc"),
  name: 'badri',
  course: 'mech',
  reg: '20bce183',
  place: 'trichy'
}
```

Delete:

```
> db.course.deleteOne({name:"chibhi"})
< {
  acknowledged: true,
  deletedCount: 1
}
```

After deleting:

```
> db.course.find();
< {
  _id: ObjectId("64732b1f9db9c0e5c478e6f9"),
  name: 'raj'
}
{
  _id: ObjectId("64732d0d9db9c0e5c478e6fa"),
  name: 'raj',
  course: 'ece',
  reg: '20bct0029',
  place: 'erode'
}
{
  _id: ObjectId("64732d2a9db9c0e5c478e6fb"),
  name: 'nitish',
  course: 'cse',
  reg: '20bce300',
  place: 'cbe'
}
{
  _id: ObjectId("64732e419db9c0e5c478e6fc"),
  name: 'badri',
  course: 'mech',
  reg: '20bce183',
  place: 'trichy'
}
```

```
{
  _id: ObjectId("64732e419db9c0e5c478e6fd"),
  name: 'jai',
  course: 'civil',
  reg: '20bcl0122',
  place: 'hosur'
}
```