MODERN APPLICATION DEVELOPMENT

(JAVA SPRING BOOT)

ASSIGNMENT-2

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QUESTION:

a) Create, update, delete commands in mysql
b) Create tables and perform joins in mysql
c) Create, update, delete commands in mongo

a) Create, update, delete commands in mysql

ans:

create database db;

show databases;

use db;

#Q1

create table test1(Name varchar(20) primary key, regno varchar(20), dept_name varchar(20));

insert into test1(Name,regno,dept_name) values('Taraa','20MIS0016','MTECH');

insert into test1 values('Ahan','20MIS0005','MTECH');

insert into test1 values('Bowal','20MIS0001','MTECH');

insert into test1(Name,regno,dept_name) values('Rayan','20MIS0006','BTECH');

insert into test1(Name,regno,dept_name) values('Taha','20MIS0015','MTECH');

insert into test1(Name,regno,dept_name) values('Anjali','20MIS0005','BTECH');

insert into test1(Name,regno,dept_name) values('Rithika','20MIS0001','MTECH');

```sql
select * from test1 where Name='Ahan';

alter table test1 add column cgpa int;

update test1 set cgpa=8 where Name='Ahan';

update test1 set cgpa=8 where Name='Bowal';

update test1 set cgpa=8 where Name='Taraa';

update test1 set cgpa=8 where Name='Rayan';

update test1 set cgpa=8 where Name='Taha';

update test1 set cgpa=8 where Name='Rithika';

update test1 set cgpa=8 where Name='Anjali';


select * from test1;


delete from test1  where Name='Ahan';

delete from test1  where Name='Bowal';

delete from test1  where Name='Taha';

delete from test1  where Name='Taraa';
```

b) Create tables and perform joins in mysql

#Q2

create table test2(EmpId varchar(20) primary key, name varchar(20), dept_name varchar(20));

insert into test2(EmpId,name,dept_name) values('1','Taha','MTECH');

insert into test2 values('2','Anjali','MTECH');

insert into test2 values('3','Rayan','MTECH');

#INNER JOIN

select * from test1 inner join test2 on test1.Name = test2.Name;

select * from db.test1 inner join db.test2 on test1.Name = test2.Name;

#LEFT JOIN

select * from test1 left join test2 on test1.Name = test2.Name;

select * from db.test1 left join db.test2 on test1.Name = test2.Name;

#RIGHT JOIN

select * from test1 right join test2 on test1.Name = test2.Name;

select * from db.test1 right join db.test2 on test1.Name = test2.Name;

#FULL JOIN

select * from test1 full join test2;

select * from db.test1 full join db.test2 ;

c) Create, update, delete commands in mongo

show databases

Output

admin   40.00 KiB

config 72.00 KiB

local   40.00 KiB

testDb   8.00 KiB

use testDb

Output

switched to db testDb

#Create Collection

db.createCollection("test");

show collections

Output

```
test
test1
```

db.test.insertMany([{'Name':'Taha'},{'Regno':'20MIS0015'},{'DEPT':'MTECH'}]);

Output

{

```
  acknowledged: true,

  insertedIds: {

    '0': ObjectId("647336972acf9625ae24daf0"),

    '1': ObjectId("647336972acf9625ae24daf1"),

    '2': ObjectId("647336972acf9625ae24daf2")

  }

}
```

#update

```
db.test.updateOne({Name:'Taha'},{$set:{age:20}});
```

Output

```
{

  acknowledged: true,

  insertedId: null,

  matchedCount: 1,

  modifiedCount: 1,

  upsertedCount: 0

}
```

#Delete

```
db.test.deleteOne({Name:'Taha'});
```

Output

```
{

  acknowledged: true,

  deletedCount: 1
```

}

#Count documents

db.test.countDocuments();

Output

2

#Display collection values

db.test.find();

Output

{

  _id: ObjectId("647336972acf9625ae24daf1"),

  Regno: '20MIS0015'

}

{

  _id: ObjectId("647336972acf9625ae24daf2"),

  DEPT: 'MTECH'

}