



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

MODERN APPLICATION DEVELOPMENT
(JAVA SPRING BOOT)
ASSIGNMENT-2

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REG.NO : 20MIS0015

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');
```

```
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(Empld varchar(20) primary key, name varchar(20),  
dept_name varchar(20));
```

```
insert into test2(Empld,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':'MTEC
H'}]);

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'
}
```