

Assignment 2

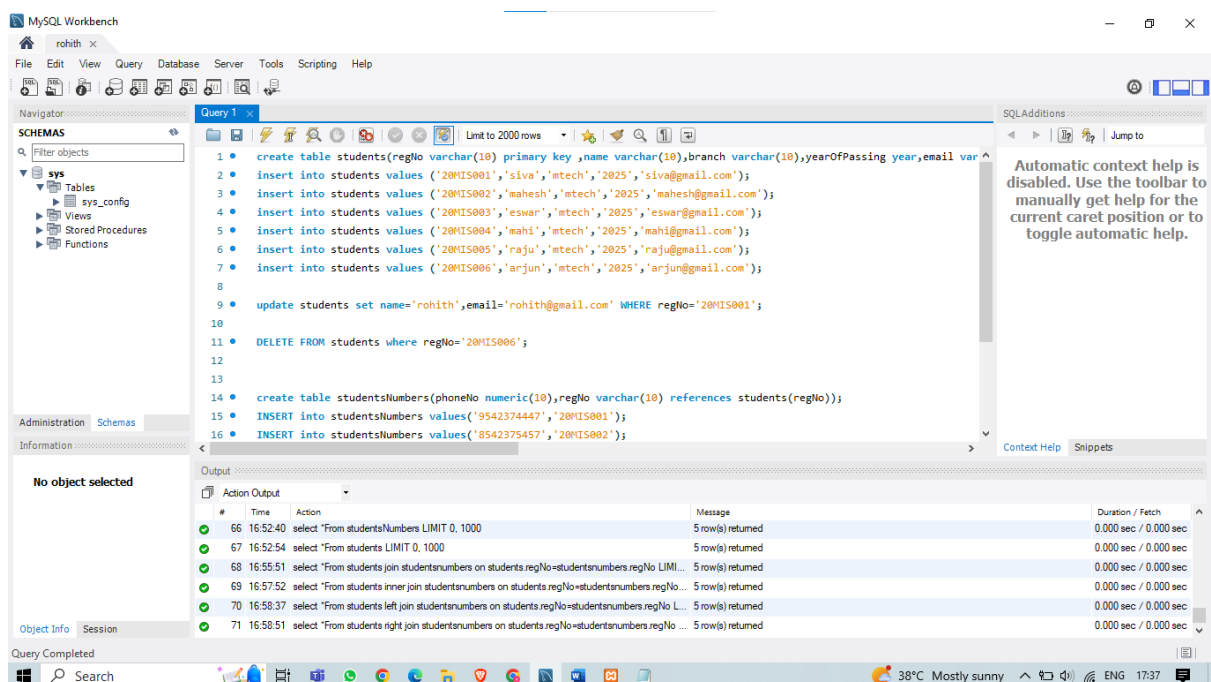
Java spring boot

Name: Akula.rohith(20MIS0374)

Emailed: akula.rohith2020@vitstudent.ac.in

- 1) create, update, delete commands in my sql
- 2) create tables and perform joins
- 3) create, update, delete command in mongoDB

1 a) Creating table



1 b)

Updating:

The screenshot shows the MySQL Workbench interface with a query window titled 'Query 1'. The query contains the following SQL statements:

```
6 • insert into students values ('20MIS005','raju','mtech','2025','raju@gmail.com');
7 • insert into students values ('20MIS006','arjun','mtech','2025','arjun@gmail.com');
8
9 • update students set name='rohith',email='rohith@gmail.com' WHERE regNo='20MIS001';
10
11 • DELETE FROM students where regNo='20MIS006';
12 • SELECT *From Students;
```

The 'Result Grid' shows the following data:

regNo	name	branch	yearOfPassing	email
20MIS001	rohith	mtech	2025	rohith@gmail.com
20MIS002	maahesh	mtech	2025	maahesh@gmail.com
20MIS003	eswar	mtech	2025	eswar@gmail.com
20MIS004	mahi	mtech	2025	mahi@gmail.com
20MIS005	raju	mtech	2025	raju@gmail.com

The 'Output' window shows the execution results of the queries:

#	Time	Action	Message	Duration / Fetch
26	14:06:12	update students set name='rohith',email='rohith@gmail.com' WHERE regNo='20MIS001'	Error Code: 1175. You are using safe update mode and you tried to update a table without a ...	0.000 sec
27	14:06:57	update students set name='rohith',email='rohith@gmail.com' WHERE regNo='20MIS001'	Error Code: 1175. You are using safe update mode and you tried to update a table without a ...	0.000 sec
28	14:07:35	update students set name='rohith',email='rohith@gmail.com' WHERE regNo='20MIS001'	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.109 sec
29	14:08:11	SELECT *FROM students LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
30	14:11:06	DELETE FROM students where regNo='20MIS006'	1 row(s) affected	0.109 sec
31	14:11:29	SELECT *From Students LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

1 c) deleting

The screenshot shows the MySQL Workbench interface with a query window titled 'Query 1'. The query contains the following SQL statements:

```
9 • update students set name='rohith',email='rohith@gmail.com' WHERE regNo='20MIS001';
10
11 • DELETE FROM students where regNo='20MIS006';
12 • SELECT *From StudentsNumbers;
13
14 • create table studentsNumbers(phoneNo numeric(10));
15 • INSERT into studentsNumbers values('9542374447');
16 • INSERT into studentsNumbers values('8542375457');
17 • INSERT into studentsNumbers values('8552354447');
18 • INSERT into studentsNumbers values('6742374457');
19 • INSERT into studentsNumbers values('7542374547');
20
21 • DELETE FROM studentsNumbers where phoneNo='9542374447';
22
23
```

The 'Output' window shows the execution results of the queries:

#	Time	Action	Message	Duration / Fetch
37	14:16:45	INSERT into studentsNumbers values('8552354447')	1 row(s) affected	0.156 sec
38	14:16:48	INSERT into studentsNumbers values('6742374457')	1 row(s) affected	0.047 sec
39	14:16:50	INSERT into studentsNumbers values('7542374547')	1 row(s) affected	0.031 sec
40	14:17:04	SELECT *From StudentsNumbers LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
41	14:18:01	DELETE FROM studentsNumbers where phoneNo='9542374447'	2 row(s) affected	0.125 sec
42	14:18:07	INSERT into studentsNumbers values('9542374447')	1 row(s) affected	0.156 sec

2a)creating 1st and 2nd table

MySQL Workbench interface showing the creation of two tables:

```
1 • create table students(regNo varchar(10) primary key, name varchar(10), branch varchar(10), yearOfPassing year, email var
2 • insert into students values ('20MIS001', 'siva', 'mtech', '2025', 'siva@gmail.com');
3 • insert into students values ('20MIS002', 'mahesh', 'mtech', '2025', 'mahesh@gmail.com');
4 • insert into students values ('20MIS003', 'eswar', 'mtech', '2025', 'eswar@gmail.com');
5 • insert into students values ('20MIS004', 'mahI', 'mtech', '2025', 'mahI@gmail.com');
6 • insert into students values ('20MIS005', 'raju', 'mtech', '2025', 'raju@gmail.com');
7 • insert into students values ('20MIS006', 'arjun', 'mtech', '2025', 'arjun@gmail.com');
8
9 • update students set name='rohith', email='rohith@gmail.com' WHERE regNo='20MIS001';
10
11 • DELETE FROM students where regNo='20MIS006';
12
13
14 • create table studentsNumbers(phoneNo numeric(10), regNo varchar(10) references students(regNo));
15 • INSERT into studentsNumbers values('9542374447', '20MIS001');
16 • INSERT into studentsNumbers values('8542375457', '20MIS002');
```

Output window showing the execution of the queries:

#	Time	Action	Message	Duration / Fetch
66	16:52:40	select "From studentsNumbers LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
67	16:52:54	select "From students LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
68	16:55:51	select "From students join studentsNumbers on students.regNo=studentsNumbers.regNo LIM...	5 row(s) returned	0.000 sec / 0.000 sec
69	16:57:52	select "From students inner join studentsNumbers on students.regNo=studentsNumbers.regNo...	5 row(s) returned	0.000 sec / 0.000 sec
70	16:58:37	select "From students left join studentsNumbers on students.regNo=studentsNumbers.regNo L...	5 row(s) returned	0.000 sec / 0.000 sec
71	16:58:51	select "From students right join studentsNumbers on students.regNo=studentsNumbers.regNo ...	5 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench interface showing the insertion of data into the 'studentsNumbers' table and the execution of an inner join query:

```
14 • create table studentsNumbers(phoneNo numeric(10), regNo varchar(10) references students(regNo));
15 • INSERT into studentsNumbers values('9542374447', '20MIS001');
16 • INSERT into studentsNumbers values('8542375457', '20MIS002');
17 • INSERT into studentsNumbers values('8552354447', '20MIS003');
18 • INSERT into studentsNumbers values('6742374457', '20MIS004');
19 • INSERT into studentsNumbers values('7542374547', '20MIS005');
20 • select *from students inner join studentsNumbers on students.regNo=studentsNumbers.regNo;
```

Result Grid showing the data from the inner join query:

regNo	name	branch	yearOfPassing	email	phoneNo	regNo
20MIS001	rohith	mtech	2025	rohith@gmail.com	9542374447	20MIS001
20MIS002	mahesh	mtech	2025	mahesh@gmail.com	8542375457	20MIS002
20MIS003	eswar	mtech	2025	eswar@gmail.com	8552354447	20MIS003
20MIS004	mahi	mtech	2025	mahi@gmail.com	6742374457	20MIS004
20MIS005	raju	mtech	2025	raju@gmail.com	7542374547	20MIS005

Output window showing the execution of the queries:

#	Time	Action	Message	Duration / Fetch
64	16:51:41	INSERT into studentsNumbers values('7542374547', '20MIS005')	1 row(s) affected	0.032 sec
65	16:52:17	select "From students LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
66	16:52:40	select "From studentsNumbers LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
67	16:52:54	select "From students LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
68	16:55:51	select "From students join studentsNumbers on students.regNo=studentsNumbers.regNo LIM...	5 row(s) returned	0.000 sec / 0.000 sec
69	16:57:52	select "From students inner join studentsNumbers on students.regNo=studentsNumbers.regNo...	5 row(s) returned	0.000 sec / 0.000 sec

2 b)

Performing joins:

InnerJoin:

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
14 • create table studentsNumbers(phoneNo numeric(10),regNo varchar(10) references students(regNo));
15 • INSERT into studentsNumbers values('9542374447','20MIS001');
16 • INSERT into studentsNumbers values('8542375457','20MIS002');
17 • INSERT into studentsNumbers values('8552354447','20MIS003');
18 • INSERT into studentsNumbers values('6742374457','20MIS004');
19 • INSERT into studentsNumbers values('7542374547','20MIS005');
20 • select *From students inner join studentsNumbers on students.regNo=studentsNumbers.regNo;
```

The Result Grid shows the following data:

regNo	name	branch	yearOfPassing	email	phoneNo	regNo
20MIS001	rohith	mtch	2025	rohith@gmail.com	9542374447	20MIS001
20MIS002	mahesh	mtch	2025	mahesh@gmail.com	8542375457	20MIS002
20MIS003	eswar	mtch	2025	eswar@gmail.com	8552354447	20MIS003
20MIS004	mahi	mtch	2025	mahi@gmail.com	6742374457	20MIS004
20MIS005	raju	mtch	2025	raju@gmail.com	7542374547	20MIS005

The Output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
64	16:51:41	INSERT into studentsNumbers values('7542374547','20MIS005');	1 row(s) affected	0.032 sec
65	16:52:17	select "From students LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
66	16:52:40	select "From studentsNumbers LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
67	16:52:54	select "From students LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
68	16:55:51	select "From students join studentsNumbers on students.regNo=studentsNumbers.regNo LIM...	5 row(s) returned	0.000 sec / 0.000 sec
69	16:57:52	select "From students inner join studentsNumbers on students.regNo=studentsNumbers.regNo...	5 row(s) returned	0.000 sec / 0.000 sec

LeftJoin:

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
14 • create table studentsNumbers(phoneNo numeric(10),regNo varchar(10) references students(regNo));
15 • INSERT into studentsNumbers values('9542374447','20MIS001');
16 • INSERT into studentsNumbers values('8542375457','20MIS002');
17 • INSERT into studentsNumbers values('8552354447','20MIS003');
18 • INSERT into studentsNumbers values('6742374457','20MIS004');
19 • INSERT into studentsNumbers values('7542374547','20MIS005');
20 • select *From students left join studentsNumbers on students.regNo=studentsNumbers.regNo;
```

The Result Grid shows the following data:

regNo	name	branch	yearOfPassing	email	phoneNo	regNo
20MIS001	rohith	mtch	2025	rohith@gmail.com	9542374447	20MIS001
20MIS002	mahesh	mtch	2025	mahesh@gmail.com	8542375457	20MIS002
20MIS003	eswar	mtch	2025	eswar@gmail.com	8552354447	20MIS003
20MIS004	mahi	mtch	2025	mahi@gmail.com	6742374457	20MIS004
20MIS005	raju	mtch	2025	raju@gmail.com	7542374547	20MIS005

The Output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
65	16:52:17	select "From students LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
66	16:52:40	select "From studentsNumbers LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
67	16:52:54	select "From students LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
68	16:55:51	select "From students join studentsNumbers on students.regNo=studentsNumbers.regNo LIM...	5 row(s) returned	0.000 sec / 0.000 sec
69	16:57:52	select "From students inner join studentsNumbers on students.regNo=studentsNumbers.regNo...	5 row(s) returned	0.000 sec / 0.000 sec
70	16:58:37	select "From students left join studentsNumbers on students.regNo=studentsNumbers.regNo L...	5 row(s) returned	0.000 sec / 0.000 sec

Right Join:

The screenshot shows the MySQL Workbench interface. The 'Query' tab is active, displaying a SQL script that creates a table named 'studentsNumbers' and inserts five rows of data. The final query is a right join between 'students' and 'studentsNumbers' on the 'regNo' column. The 'Result Grid' shows the output of this query, which is a table with 7 columns: regNo, name, branch, yearOfPassing, email, phoneNo, and regNo. The results show 5 rows of data, all with regNo values from the 'studentsNumbers' table. The 'Output' tab at the bottom shows the execution log, indicating that the query was successful and returned 5 rows.

regNo	name	branch	yearOfPassing	email	phoneNo	regNo
20MIS001	rohith	mtech	2025	rohith@gmail.com	9542374447	20MIS001
20MIS002	mahesh	mtech	2025	mahesh@gmail.com	8542375457	20MIS002
20MIS003	eswar	mtech	2025	eswar@gmail.com	8552354447	20MIS003
20MIS004	mahi	mtech	2025	mahi@gmail.com	7542374457	20MIS004
20MIS005	raju	mtech	2025	raju@gmail.com	7542374547	20MIS005

3) create,update,delete comand in mongoDB

Create:

```
db.collectionName.insertMany([
```

```
{  
  field1: value1,  
  field2: value2,
```

```
},
```

```
{  
  field1: value3,  
  field2: value4,
```

```
},
```

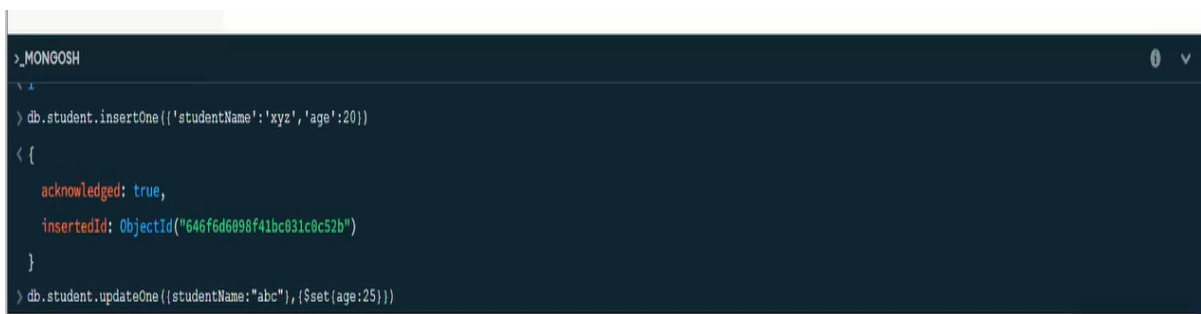
```
]);
```

Update:

```
db.collectionName.updateOne(  
  { filter },  
  {  
    $set: {  
      field1: newValue1,  
      field2: newValue2,  
    },  
  }  
);
```

Delete:

```
db.collectionName.deleteOne({ filter });
```

A screenshot of a MongoDB shell terminal window. The title bar shows '>_MONGOSH' and a close button. The terminal has a dark background with light blue and green text. It shows two commands being executed: an insertOne command followed by its JSON response, and an updateOne command.

```
>_MONGOSH  
  
> db.student.insertOne({'studentName':'xyz','age':20})  
< {  
  acknowledged: true,  
  insertedId: ObjectId("646f6d6098f41bc031c0c52b")  
}  
  
> db.student.updateOne({'studentName':'abc'}, {$set:{age:25}})
```