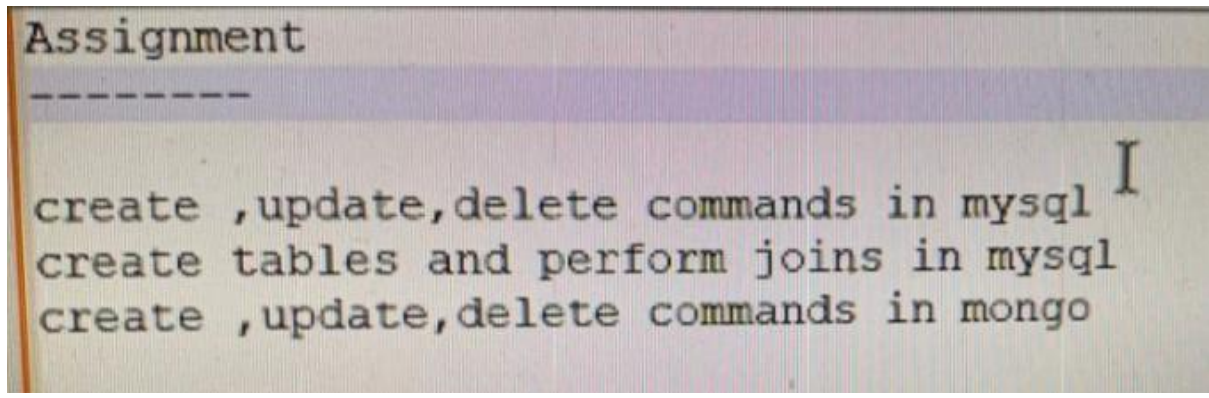


ASSIGNMENT-2



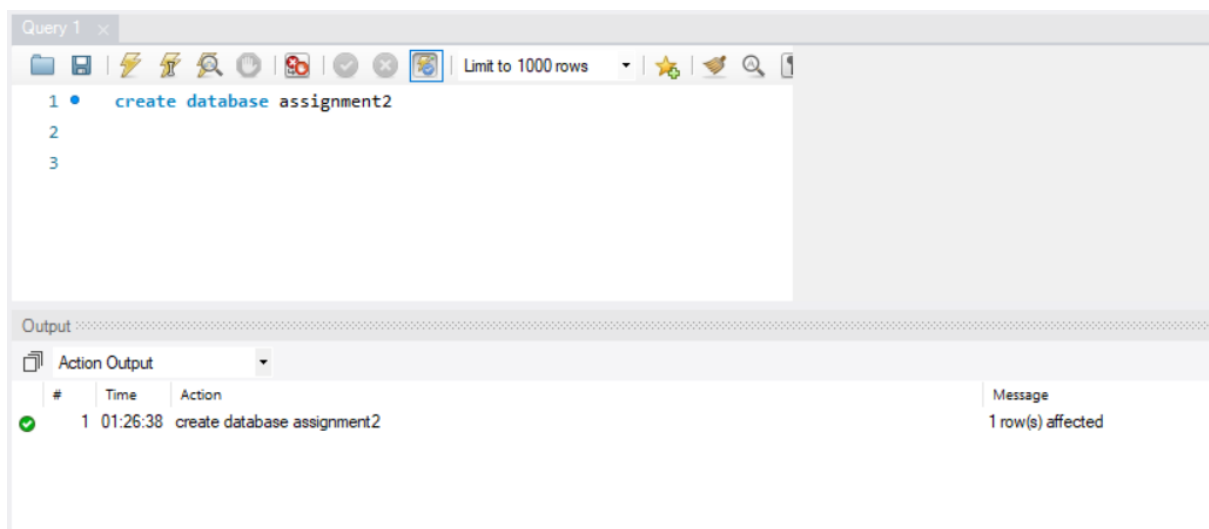
Tallam Rahul

20BCI0114

VIT Vellore

Commands in MySQL:

Creating database:



Creating table person and inserting the values:

Query 1 x

```
1 • create database assignment2;
2 • create table assignment2.person(id int not null,fullname varchar(45) not null,salary int not null,city varchar(45) not null,primary key(id));
3 • insert into assignment2.person values(1,'rahul',5000,'Hyderabad');
4 • insert into assignment2.person values(2,'ganesh',6000,'Vizag');
5 • insert into assignment2.person values(3,'ashish',7000,'Kadapa');
6 • insert into assignment2.person values(4,'deepak',4000,'Delhi');
7 • insert into assignment2.person values(5,'ranjana',65000,'Chennai');
8
```

Output

Action Output

#	Time	Action	Message
1	02:32:15	create table assignment2.person(id int not null,fullname varchar(45) not null,salary int not null,city varchar(45) not null,primary key(id));	0 row(s) affected
2	02:36:25	insert into assignment2.person values(1,'rahul',5000,'Hyderabad')	1 row(s) affected
3	02:36:25	insert into assignment2.person values(2,'ganesh',6000,'Vizag')	1 row(s) affected
4	02:36:25	insert into assignment2.person values(3,'ashish',7000,'Kadapa')	1 row(s) affected
5	02:36:25	insert into assignment2.person values(4,'deepak',4000,'Delhi')	1 row(s) affected
6	02:36:25	insert into assignment2.person values(5,'ranjana',65000,'Chennai')	1 row(s) affected

Update command:

```
9 • update assignment2.person set salary=5500 where id=3;
10 • update assignment2.person set city='US' where id=1;
11
12 • select * from assignment2.person;
```

Result Grid

	id	fullname	salary	city
1	rahul	5000	US	
2	ganesh	6000	Vizag	
3	ashish	5500	Kadapa	
4	deepak	4000	Delhi	
5	ranjana	65000	Chennai	
6	NULL	NULL	NULL	NULL

person 1 x

Output

Action Output

#	Time	Action	Message
1	02:32:15	create table assignment2.person(id int not null,fullname varchar(45) not null,salary int not null,city varchar(45) not null,primary key(id));	0 row(s) affected
2	02:36:25	insert into assignment2.person values(1,'rahul',5000,'Hyderabad')	1 row(s) affected
3	02:36:25	insert into assignment2.person values(2,'ganesh',6000,'Vizag')	1 row(s) affected
4	02:36:25	insert into assignment2.person values(3,'ashish',7000,'Kadapa')	1 row(s) affected
5	02:36:25	insert into assignment2.person values(4,'deepak',4000,'Delhi')	1 row(s) affected
6	02:36:25	insert into assignment2.person values(5,'ranjana',65000,'Chennai')	1 row(s) affected
7	02:40:14	update assignment2.person set salary=5500 where id=3	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
8	02:40:14	update assignment2.person set city='US' where id=1	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
9	02:40:36	select * from assignment2.person LIMIT 0, 1000	5 row(s) returned

Delete command:

12 • `select * from assignment2.person;`
13 • `delete from assignment2.person where id=5;`

Result Grid

	id	fullname	salary	city
1	1	rahul	5000	US
2	2	ganesh	6000	Vizag
3	3	ashish	5500	Kadapa
4	4	deepak	4000	Delhi
5	NULL	NULL	NULL	NULL

person 4 x

Output

Action Output

#	Time	Action	Message
6	02:36:25	insert into assignment2.person values(5,'anjana',65000,'Chennai')	1 row(s) affected
7	02:40:14	update assignment2.person set salary=5500 where id=3	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
8	02:40:14	update assignment2.person set city='US' where id=1	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
9	02:40:36	select * from assignment2.person LIMIT 0, 1000	5 row(s) returned
10	02:43:17	delete from assignment2.person where fullname='varsha'	Error Code: 1175. You are using safe update mode and you tried to update a table without a WHERE that uses...
11	02:43:24	select * from assignment2.person LIMIT 0, 1000	5 row(s) returned
12	02:43:51	select * from assignment2.person LIMIT 0, 1000	5 row(s) returned
13	02:48:48	delete from assignment2.person where id=5	1 row(s) affected
14	02:48:55	select * from assignment2.person LIMIT 0, 1000	4 row(s) returned

Alter command:

14
15 • `alter table assignment2.person drop column city;`

Result Grid

	id	fullname	salary
1	1	rahul	5000
2	2	ganesh	6000
3	3	ashish	5500
4	4	deepak	4000
5	NULL	NULL	NULL

person 5 x

Output

Action Output

#	Time	Action	Message
13	02:48:48	delete from assignment2.person where id=5	1 row(s) affected
14	02:48:55	select * from assignment2.person LIMIT 0, 1000	4 row(s) returned
15	03:04:23	alter table assignment2.person drop column city	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
16	03:04:28	select * from assignment2.person LIMIT 0, 1000	4 row(s) returned

Joins:

Creating second table job

```
17 • create table assignment2.job(jobid int not null,job_desc varchar(45) not null,emp_name varchar(45) not null,primary key(jobid));
18 • select * from assignment2.job;
19 • insert into assignment2.job values(2,'Engineer','deepak');
20 • insert into assignment2.job values(4,'Doctor','rahul');
21 • insert into assignment2.job values(6,'Painter','Shannu');
22
```

Result Grid

jobid	job_desc	emp_name
2	Engineer	deepak
4	Doctor	rahul
6	Painter	Shannu
NULL	NULL	NULL

Inner join:

```
22
23 • select assignment2.person.fullname,assignment2.job.job_desc from assignment2.person inner join assignment2.job on assignment2.person.fullname=assignment2.job.emp_name;
24 • select * from assignment2.person inner join assignment2.job on assignment2.person.fullname=assignment2.job.emp_name;
```

Result Grid

fullname	job_desc
rahul	Doctor
deepak	Engineer

```
24 • select * from assignment2.person inner join assignment2.job on assignment2.person.fullname=assignment2.job.emp_name;
```

Result Grid

id	fullname	salary	jobid	job_desc	emp_name
1	rahul	5000	4	Doctor	rahul
4	deepak	4000	2	Engineer	deepak

Left join:

```
32 • select assignment2.person.fullname,assignment2.job.job_desc from assignment2.person left join assignment2.job on assignment2.person.fullname=assignment2.job.emp_name;
33 • select * from assignment2.person left join assignment2.job on assignment2.person.fullname=assignment2.job.emp_name;
```

Result Grid

fullname	job_desc
rahul	Doctor
ganesh	NULL
ashish	NULL
deepak	Engineer

```
33 • select * from assignment2.person left join assignment2.job on assignment2.person.fullname=assignment2.job.emp_name;
34
```

Result Grid

id	fullname	salary	jobid	job_desc	emp_name
1	rahul	5000	4	Doctor	rahul
2	ganesh	6000	NULL	NULL	NULL
3	ashish	5500	NULL	NULL	NULL
4	deepak	4000	2	Engineer	deepak

Right join:

```
39 • select assignment2.person.fullname,assignment2.job.job_desc from assignment2.person right join assignment2.job on assignment2.person.fullname=assignment2.job.emp_name;
40 • select * from assignment2.person right join assignment2.job on assignment2.person.fullname=assignment2.job.emp_name;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	fullname	job_desc
▶	deepak	Engineer
	rahul	Doctor
	NULL	Painter

```
41 • select * from assignment2.person right join assignment2.job on assignment2.person.fullname=assignment2.job.emp_name;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	id	fullname	salary	jobid	job_desc	emp_name
▶	4	deepak	4000	2	Engineer	deepak
	1	rahul	5000	4	Doctor	rahul
	NULL	NULL	NULL	6	Painter	Shannu

Cross join:

```
42 • select assignment2.person.fullname,assignment2.job.job_desc from assignment2.person cross join assignment2.job where assignment2.person.fullname=assignment2.job.emp_name;
43 • select * from assignment2.person cross join assignment2.job;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	fullname	job_desc
▶	rahul	Doctor
	deepak	Engineer

```
43 • select * from assignment2.person cross join assignment2.job;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	id	fullname	salary	jobid	job_desc	emp_name
▶	1	rahul	5000	6	Painter	Shannu
	1	rahul	5000	4	Doctor	rahul
	1	rahul	5000	2	Engineer	deepak
	2	ganesh	6000	6	Painter	Shannu
	2	ganesh	6000	4	Doctor	rahul
	2	ganesh	6000	2	Engineer	deepak
	3	ashish	5500	6	Painter	Shannu
	3	ashish	5500	4	Doctor	rahul
	3	ashish	5500	2	Engineer	deepak
	4	deepak	4000	6	Painter	Shannu
	4	deepak	4000	4	Doctor	rahul
	4	deepak	4000	2	Engineer	deepak

Mongo:

Creating db and collection

```
> use assignment2
< 'switched to db assignment2'
> db.createCollection("student")
< { ok: 1 }
> db.student.insertOne({ 'Name': 'Rahul' })
< { acknowledged: true,
    insertedId: ObjectId("6472f03380de2a3b385de4db") }
```

Documents assignment2.student

assignment2.student

0 DOCUMENTS 1 INDEXES

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER { field: 'value' } OPTIONS FIND RESET ...

ADD DATA VIEW {}

Displaying documents 1 - 3 of 3 REFRESH

```
{ "_id": ObjectId("6472f1d480de2a3b385de4dc"), "Name": "Varsha" }
```

```
{ "_id": ObjectId("6472f27280de2a3b385de4dd"), "Name": "Varsha", "Age": 20, "City": "Hyderabad" }
```

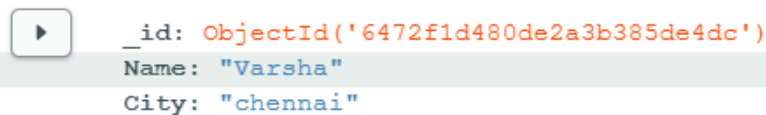
Inserting into the collection:

```
> db.student.insertOne({ 'Name': 'Varsha', 'Age': 20, 'City': 'Hyderabad' })
< { acknowledged: true,
    insertedId: ObjectId("6472f27280de2a3b385de4dd") }
```

```
_id: ObjectId('6472f27280de2a3b385de4dd')
Name: "Varsha"
Age: 20
City: "Hyderabad"
```

Updating the collection:

```
> db.student.updateOne({Name:'Varsha'},{$set:{City:"chennai"}})
< { acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0 }
```

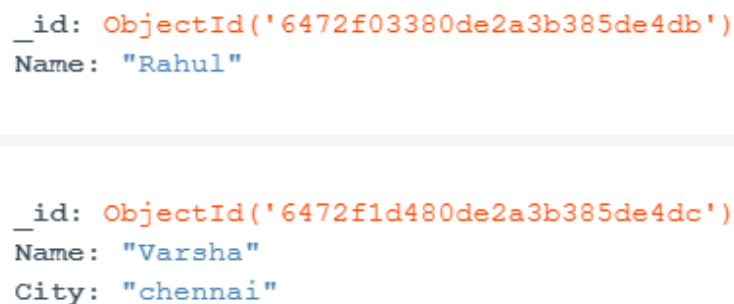


The screenshot shows the MongoDB Compass interface. On the left, there is a play button icon. The main area displays a single document with the following fields: `_id` (ObjectId('6472f1d480de2a3b385de4dc')), `Name` ("Varsha"), and `City` ("chennai").

City got updated to Chennai.

Delete command:

Data before deletion:



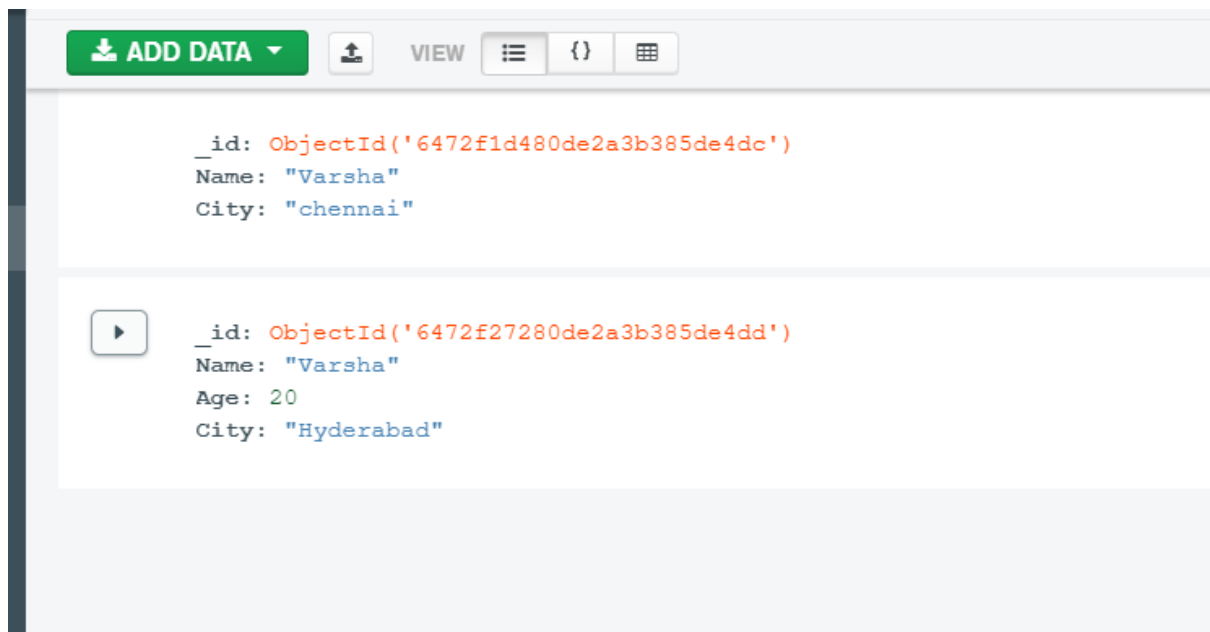
The screenshot shows the MongoDB Compass interface with two documents listed. The first document has `_id` ObjectId('6472f03380de2a3b385de4db') and `Name` "Rahul". The second document has `_id` ObjectId('6472f1d480de2a3b385de4dc'), `Name` "Varsha", and `City` "chennai".

Delete command:

```
> db.student.deleteOne({Name:'Rahul'})
< { acknowledged: true, deletedCount: 1 }
```

Data after deletion:

Data Rahul is deleted.



Count of Documents in the collection:

```
> db.student.countDocuments()  
< 2
```