

Assignment-01

Team Members:

Grp No. 9

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Docker Hub : rudhra999/ubuntu-04

Ans 1)

```
mysql> sys
+-----+
4 rows in set (0.01 sec)

mysql> create database mydb
-> ;
Query OK, 1 row affected (0.01 sec)

mysql> use mydb;
Database changed
mysql> create table student_details(SNo int not null unique , RollNo int not null unique primary key , Name Varchar(30) not null , Gender varchar(20) not null , Branch varchar(20) not null);
Query OK, 0 rows affected (0.06 sec)

mysql> INSERT INTO student_details(SNo,RollNo,Name,Gender,Branch) VALUES (1,'2021001','Ankit Jaat','M','CSB');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO student_details(SNo,RollNo,Name,Gender,Branch) VALUES (2,'2021002','Ankit Gujjar','M','CSD');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO student_details(SNo,RollNo,Name,Gender,Branch) VALUES (3,'2021003','Ankit Pandey','M','CSAM');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO student_details(SNo,RollNo,Name,Gender,Branch) VALUES (4,'2021004','Ankita Dagar','F','CSE');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO student_details(SNo,RollNo,Name,Gender,Branch) VALUES (5,'2021005','Riya Dagar','F','ECE');
Query OK, 1 row affected (0.01 sec)

mysql>
```

1) Select * From student_details where Gender Like 'F';

2) Select * From student_details where Gender Like 'M';

```
mysql> Select * From student_details where Gender Like 'F';
+-----+
| SNo | RollNo | Name       | Gender | Branch |
+-----+
| 4   | 2021004 | Ankita Dagar | F      | CSE    |
| 5   | 2021005 | Riya Dagar  | F      | ECE    |
+-----+
2 rows in set (0.00 sec)

mysql> Select * From student_details where Gender Like 'M';
+-----+
| SNo | RollNo | Name       | Gender | Branch |
+-----+
| 1   | 2021001 | Ankit Jaat | M      | CSB    |
| 2   | 2021002 | Ankit Gujjar | M      | CSD    |
| 3   | 2021003 | Ankit Pandey | M      | CSAM   |
+-----+
3 rows in set (0.00 sec)
```

3) Select RollNo from student_details where Name Like 'Ankit Jaat' and Gender='M';

```
mysql> Select RollNo from student_details where Name Like 'Ankit Jaat' and Gender='M';
+-----+
| RollNo |
+-----+
| 2021001 |
+-----+
1 row in set (0.00 sec)
```

4) select distinct Name from student_details;

```
mysql> Select * from student_details;
+-----+-----+-----+-----+-----+
| SNo | RollNo | Name      | Gender | Branch |
+-----+-----+-----+-----+-----+
| 1   | 2021001 | Ankit Jaat | M      | CSB     |
| 2   | 2021002 | Ankit Gujjar | M      | CSD     |
| 3   | 2021003 | Ankit Pandey | M      | CSAM    |
| 4   | 2021004 | Ankita Dagar | F      | CSE     |
| 5   | 2021005 | Riya Dagar  | F      | ECE     |
| 6   | 2021006 | Riya Dagar  | F      | ECE     |
| 7   | 2021007 | Riya Dagar  | F      | CSB     |
+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

mysql> select distinct Name from student_details;
+-----+
| Name      |
+-----+
| Ankit Jaat |
| Ankit Gujjar |
| Ankit Pandey |
| Ankita Dagar |
| Riya Dagar  |
+-----+
5 rows in set (0.01 sec)
```

Ans 2 :

a) db.students_detail.find({'\$or':{'Firstname':"james"},{'gender':"Male"}}})

```
> db.students_detail.find({'$or':{'Firstname':"james"},{'gender':"Male"}}})
{ "_id" : ObjectId("60350b14c539becb6106b171"), "First name" : "james", "Last Name" : "gomes", "class" : "12", "section" : "A", "gender" : "Male", "grades/cgpa" : "7" }
{ "_id" : ObjectId("60350b14c539becb6106b173"), "First name" : "vami", "Last Name" : "loats", "class" : "10", "section" : "C", "gender" : "Male", "grades/cgpa" : "9" }
{ "_id" : ObjectId("60350b14c539becb6106b174"), "First name" : "geet", "Last Name" : "rout", "class" : "11", "section" : "A", "gender" : "Male", "grades/cgpa" : "5" }
{ "_id" : ObjectId("60350b14c539becb6106b175"), "First name" : "sim", "Last Name" : "gots", "class" : "9", "section" : "A", "gender" : "Male", "grades/cgpa" : "6" }
{ "_id" : ObjectId("60350b14c539becb6106b176"), "First name" : "shame", "Last Name" : "bats", "class" : "7", "section" : "B", "gender" : "Male", "grades/cgpa" : "9" }
{ "_id" : ObjectId("60350b14c539becb6106b177"), "First name" : "tom", "Last Name" : "lams", "class" : "9", "section" : "C", "gender" : "Male", "grades/cgpa" : "4" }
{ "_id" : ObjectId("60350b14c539becb6106b178"), "First name" : "gerry", "Last Name" : "yoms", "class" : "6", "section" : "D", "gender" : "Male", "grades/cgpa" : "9" }
{ "_id" : ObjectId("60350b14c539becb6106b179"), "First name" : "pams", "Last Name" : "boul", "class" : "9", "section" : "A", "gender" : "Male", "grades/cgpa" : "8" }
{ "_id" : ObjectId("60350b14c539becb6106b17a"), "First name" : "tim", "Last Name" : "kal", "class" : "5", "section" : "B", "gender" : "Male", "grades/cgpa" : "7" }
{ "_id" : ObjectId("60350e0177f71695726fbc0e"), "First name" : "james", "Last Name" : "gomes", "class" : "12", "section" : "A", "gender" : "Male", "grades/cgpa" : "7" }
{ "_id" : ObjectId("60350e0177f71695726fbc0f"), "First name" : "vami", "Last Name" : "loats", "class" : "10", "section" : "C", "gender" : "Male", "grades/cgpa" : "9" }
{ "_id" : ObjectId("60350e0177f71695726fbc10"), "First name" : "geet", "Last Name" : "rout", "class" : "11", "section" : "A", "gender" : "Male", "grades/cgpa" : "5" }
{ "_id" : ObjectId("60350e0177f71695726fbc11"), "First name" : "sim", "Last Name" : "gots", "class" : "9", "section" : "A", "gender" : "Male", "grades/cgpa" : "6" }
{ "_id" : ObjectId("60350e0177f71695726fbc12"), "First name" : "shame", "Last Name" : "bats", "class" : "7", "section" : "B", "gender" : "Male", "grades/cgpa" : "9" }
{ "_id" : ObjectId("60350e0177f71695726fbc13"), "First name" : "tom", "Last Name" : "lams", "class" : "9", "section" : "C", "gender" : "Male", "grades/cgpa" : "4" }
{ "_id" : ObjectId("60350e0177f71695726fbc14"), "First name" : "gerry", "Last Name" : "yoms", "class" : "6", "section" : "D", "gender" : "Male", "grades/cgpa" : "9" }
{ "_id" : ObjectId("60350e0177f71695726fbc15"), "First name" : "pams", "Last Name" : "boul", "class" : "9", "section" : "A", "gender" : "Male", "grades/cgpa" : "8" }
{ "_id" : ObjectId("60350e0177f71695726fbc15"), "First name" : "tim", "Last Name" : "kal", "class" : "5", "section" : "B", "gender" : "Male", "grades/cgpa" : "7" }
```

```
c)db.students_detail.find({$or:[{"Firstname":"james"}, {"grades/cgpa":{"$gte":"4"}}]})
```

```
db.students_detail.find({'grades/cgpa':"A"},{'$or':{'$and':{'$eq':['$first','James'],'$eq':['$gender','Male']}}})
  "_id" : ObjectId("60350b14c539becb6190b171"), "First Name" : "James", "Last Name" : "gomes", "class" : "12", "section" : "A", "gender" : "Male", "grades/cgpa" : "7" }
  "_id" : ObjectId("60350b14c539becb6190b171"), "First Name" : "tim", "Last Name" : "kal", "class" : "5", "section" : "B", "gender" : "Male", "grades/cgpa" : "7" }
  "_id" : ObjectId("60350e0177f1695726fbc0c"), "First Name" : "James", "Last Name" : "gomes", "class" : "12", "section" : "A", "gender" : "Male", "grades/cgpa" : "7" }
  "_id" : ObjectId("60350e0177f1695726fbc15"), "First Name" : "tim", "Last Name" : "kal", "class" : "5", "section" : "B", "gender" : "Male", "grades/cgpa" : "7" }
db.students_detail.find({'$or':{'$and':{'$eq':['$first','James'],'$eq':['$grades/cgpa',{'$gte':'4'}]}}})
  "_id" : ObjectId("60350b14c539becb6190b171"), "First Name" : "James", "Last Name" : "gomes", "class" : "12", "section" : "A", "gender" : "Male", "grades/cgpa" : "7" }
  "_id" : ObjectId("60350b14c539becb6190b172"), "First Name" : "harry", "Last Name" : "lames", "class" : "11", "section" : "B", "gender" : "Female", "grades/cgpa" : "8" }
  "_id" : ObjectId("60350b14c539becb6190b173"), "First Name" : "vami", "Last Name" : "loats", "class" : "10", "section" : "C", "gender" : "Male", "grades/cgpa" : "5" }
  "_id" : ObjectId("60350b14c539becb6190b174"), "First Name" : "geet", "Last Name" : "rout", "class" : "11", "section" : "A", "gender" : "Male", "grades/cgpa" : "9" }
  "_id" : ObjectId("60350b14c539becb6190b175"), "First Name" : "shame", "Last Name" : "gomes", "class" : "9", "section" : "A", "gender" : "Male", "grades/cgpa" : "6" }
  "_id" : ObjectId("60350b14c539becb6190b176"), "First Name" : "shame", "Last Name" : "bats", "class" : "7", "section" : "B", "gender" : "Male", "grades/cgpa" : "9" }
  "_id" : ObjectId("60350b14c539becb6190b177"), "First Name" : "tom", "Last Name" : "lams", "class" : "9", "section" : "C", "gender" : "Male", "grades/cgpa" : "4" }
  "_id" : ObjectId("60350b14c539becb6190b178"), "First Name" : "gerry", "Last Name" : "yoms", "class" : "6", "section" : "D", "gender" : "Male", "grades/cgpa" : "9" }
  "_id" : ObjectId("60350b14c539becb6190b179"), "First Name" : "pams", "Last Name" : "boul", "class" : "9", "section" : "A", "gender" : "Male", "grades/cgpa" : "8" }
  "_id" : ObjectId("60350b14c539becb6190b17a"), "First Name" : "tim", "Last Name" : "kal", "class" : "5", "section" : "B", "gender" : "Male", "grades/cgpa" : "7" }
  "_id" : ObjectId("60350e0177f1695726fbc0c"), "First Name" : "James", "Last Name" : "gomes", "class" : "12", "section" : "A", "gender" : "Male", "grades/cgpa" : "7" }
  "_id" : ObjectId("60350e0177f1695726fbc0d"), "First Name" : "harry", "Last Name" : "lames", "class" : "11", "section" : "B", "gender" : "Female", "grades/cgpa" : "8" }
  "_id" : ObjectId("60350e0177f1695726fbc0e"), "First Name" : "vami", "Last Name" : "loats", "class" : "10", "section" : "C", "gender" : "Male", "grades/cgpa" : "9" }
  "_id" : ObjectId("60350e0177f1695726fbc0f"), "First Name" : "geet", "Last Name" : "rout", "class" : "11", "section" : "A", "gender" : "Male", "grades/cgpa" : "5" }
  "_id" : ObjectId("60350e0177f1695726fbc10"), "First Name" : "shame", "Last Name" : "gomes", "class" : "9", "section" : "A", "gender" : "Male", "grades/cgpa" : "6" }
  "_id" : ObjectId("60350e0177f1695726fbc11"), "First Name" : "shame", "Last Name" : "bats", "class" : "7", "section" : "B", "gender" : "Male", "grades/cgpa" : "9" }
  "_id" : ObjectId("60350e0177f1695726fbc12"), "First Name" : "tom", "Last Name" : "lams", "class" : "9", "section" : "C", "gender" : "Male", "grades/cgpa" : "4" }
  "_id" : ObjectId("60350e0177f1695726fbc13"), "First Name" : "gerry", "Last Name" : "yoms", "class" : "6", "section" : "D", "gender" : "Male", "grades/cgpa" : "9" }
  "_id" : ObjectId("60350e0177f1695726fbc14"), "First Name" : "pams", "Last Name" : "boul", "class" : "9", "section" : "A", "gender" : "Male", "grades/cgpa" : "8" }
  "_id" : ObjectId("60350e0177f1695726fbc15"), "First Name" : "tim", "Last Name" : "kal", "class" : "5", "section" : "B", "gender" : "Male", "grades/cgpa" : "7" }
```

```
d)db.students_detail.find({"gender":"Male",$or:[{"Firstname":"james"}, {"grades/cgpa":{"$gte":"4"}}]})
```

```
db.students_detail.find({'gender':'Male','rdr':{'First Name':'James','Last Name':'gomes','grades/cgpa':{'$gte':4}}})
{"_id": "Objectid('60350b14c539becb6106b171)","First Name": "James", "Last Name": "gomes", "class": "12", "section": "A", "gender": "Male", "grades/cgpa": "7" }
{"_id": "Objectid('60350b14c539becb6106b172)","First Name": "vami", "Last Name": "loats", "class": "10", "section": "C", "gender": "Male", "grades/cgpa": "9" }
{"_id": "Objectid('60350b14c539becb6106b173)","First Name": "geet", "Last Name": "rout", "class": "11", "section": "A", "gender": "Male", "grades/cgpa": "5" }
{"_id": "Objectid('60350b14c539becb6106b174)","First Name": "sin", "Last Name": "gots", "class": "9", "section": "A", "gender": "Male", "grades/cgpa": "6" }
{"_id": "Objectid('60350b14c539becb6106b175)","First Name": "shame", "Last Name": "bats", "class": "7", "section": "B", "gender": "Male", "grades/cgpa": "9" }
{"_id": "Objectid('60350b14c539becb6106b177)","First Name": "com", "Last Name": "lams", "class": "9", "section": "C", "gender": "Male", "grades/cgpa": "4" }
{"_id": "Objectid('60350b14c539becb6106b178)","First Name": "gerry", "Last Name": "yoms", "class": "6", "section": "D", "gender": "Male", "grades/cgpa": "9" }
{"_id": "Objectid('60350b14c539becb6106b179)","First Name": "pams", "Last Name": "boul", "class": "9", "section": "A", "gender": "Male", "grades/cgpa": "8" }
{"_id": "Objectid('60350b14c539becb6106b17A)","First Name": "tim", "Last Name": "kal", "class": "5", "section": "B", "gender": "Male", "grades/cgpa": "7" }
{"_id": "Objectid('60350e01777169576fbcba)","First Name": "James", "Last Name": "gomes", "class": "12", "section": "A", "gender": "Male", "grades/cgpa": "7" }
{"_id": "Objectid('60350e01777169576fbcbb)","First Name": "vami", "Last Name": "loats", "class": "10", "section": "C", "gender": "Male", "grades/cgpa": "9" }
{"_id": "Objectid('60350e01777169576fbcba)","First Name": "geet", "Last Name": "rout", "class": "11", "section": "A", "gender": "Male", "grades/cgpa": "5" }
{"_id": "Objectid('60350e01777169576fbcbb)","First Name": "sin", "Last Name": "gots", "class": "9", "section": "A", "gender": "Male", "grades/cgpa": "6" }
{"_id": "Objectid('60350e01777169576fbcbb)","First Name": "shame", "Last Name": "bats", "class": "7", "section": "B", "gender": "Male", "grades/cgpa": "9" }
{"_id": "Objectid('60350e01777169576fbcbb)","First Name": "com", "Last Name": "lams", "class": "9", "section": "C", "gender": "Male", "grades/cgpa": "4" }
{"_id": "Objectid('60350e01777169576fbcbb)","First Name": "gerry", "Last Name": "yoms", "class": "6", "section": "D", "gender": "Male", "grades/cgpa": "9" }
{"_id": "Objectid('60350e01777169576fbcbb)","First Name": "pams", "Last Name": "boul", "class": "9", "section": "A", "gender": "Male", "grades/cgpa": "8" }
{"_id": "Objectid('60350e01777169576fbcbb)","First Name": "tim", "Last Name": "kal", "class": "5", "section": "B", "gender": "Male", "grades/cgpa": "7" }
```

Ans 3 and 4 are in the Docker itself.