Lab – 2

Name : Rahul Katinni

Roll : S20200010091

Exercise - 1 :

```
mysql> desc students;
+--------+------------+------+-----+---------+-------+
| Field  | Type       | Null | Key | Default | Extra |
+--------+------------+------+-----+---------+-------+
| ID     | int        | YES  | UNI | NULL    |       |
| BRANCH | char(3)    | YES  |     | NULL    |       |
| Name   | varchar(10)| YES  |     | NULL    |       |
| DOB    | date       | YES  |     | NULL    |       |
| Rank   | int        | YES  |     | NULL    |       |
+--------+------------+------+-----+---------+-------+
5 rows in set (0.01 sec)

mysql> insert into students(ID,BRANCH,Name,DOB,`Rank`) values(1002, "CSE", "Parryson", "1996-01-2", 4567);
Query OK, 1 row affected (0.02 sec)

mysql> insert into students(ID,BRANCH,Name,DOB,`Rank`) values(1003, "MCH", "David.k", "1997-08-3", 9568);
Query OK, 1 row affected (0.01 sec)

mysql> insert into students(ID,BRANCH,Name,DOB,`Rank`) values(1004, "ECE", "Soumith", "1995-03-20", 10000);
Query OK, 1 row affected (0.01 sec)

mysql> insert into students(ID,BRANCH,Name,DOB,`Rank`) values(1005, "CSE", "Arol", "1997-2-2", 8000);
Query OK, 1 row affected (0.01 sec)

mysql> insert into students(ID,BRANCH,Name,DOB,`Rank`) values(1006, "ECE", "Mounesh", "1996-03-20", 9923);
Query OK, 1 row affected (0.01 sec)

mysql> insert into students(ID,BRANCH,Name,DOB,`Rank`) values(1007, "CSE", "Samanta", "1997-02-24", 7940);
Query OK, 1 row affected (0.00 sec)

mysql> select * from students;
+------+--------+----------+------------+-------+
| ID   | BRANCH | Name     | DOB        | Rank  |
+------+--------+----------+------------+-------+
| 1001 | ECE    | Joe      | 1995-06-23 |  5023 |
| 1002 | CSE    | Parryson | 1996-01-02 |  4567 |
| 1003 | MCH    | David.k  | 1997-08-03 |  9568 |
| 1004 | ECE    | Soumith  | 1995-03-20 | 10000 |
| 1005 | CSE    | Arol     | 1997-02-02 |  8000 |
| 1006 | ECE    | Mounesh  | 1996-03-20 |  9923 |
| 1007 | CSE    | Samanta  | 1997-02-24 |  7940 |
+------+--------+----------+------------+-------+
7 rows in set (0.00 sec)

mysql>
```

```
Query OK, 1 row affected (0.01 sec)

mysql> insert into students(ID,BRANCH,Name,DOB,`Rank`) values(1004, "ECE", "Soumith", "1995-03-20", 10000);
Query OK, 1 row affected (0.01 sec)

mysql> insert into students(ID,BRANCH,Name,DOB,`Rank`) values(1005, "CSE", "Arol", "1997-2-2", 8000);
Query OK, 1 row affected (0.01 sec)

mysql> insert into students(ID,BRANCH,Name,DOB,`Rank`) values(1006, "ECE", "Mounesh", "1996-03-20", 9923);
Query OK, 1 row affected (0.01 sec)

mysql> insert into students(ID,BRANCH,Name,DOB,`Rank`) values(1007, "CSE", "Samanta", "1997-02-24", 7940);
Query OK, 1 row affected (0.00 sec)

mysql> select * from students;
+------+--------+----------+------------+-------+
| ID   | BRANCH | Name     | DOB        | Rank  |
+------+--------+----------+------------+-------+
| 1001 | ECE    | Joe      | 1995-06-23 |  5023 |
| 1002 | CSE    | Parryson | 1996-01-02 |  4567 |
| 1003 | MCH    | David.k  | 1997-08-03 |  9568 |
| 1004 | ECE    | Soumith  | 1995-03-20 | 10000 |
| 1005 | CSE    | Arol     | 1997-02-02 |  8000 |
| 1006 | ECE    | Mounesh  | 1996-03-20 |  9923 |
| 1007 | CSE    | Samanta  | 1997-02-24 |  7940 |
+------+--------+----------+------------+-------+
7 rows in set (0.00 sec)

mysql> delete from students where ID = 1001;
Query OK, 1 row affected (0.01 sec)

mysql> select * from students;
+------+--------+----------+------------+-------+
| ID   | BRANCH | Name     | DOB        | Rank  |
+------+--------+----------+------------+-------+
| 1002 | CSE    | Parryson | 1996-01-02 |  4567 |
| 1003 | MCH    | David.k  | 1997-08-03 |  9568 |
| 1004 | ECE    | Soumith  | 1995-03-20 | 10000 |
| 1005 | CSE    | Arol     | 1997-02-02 |  8000 |
| 1006 | ECE    | Mounesh  | 1996-03-20 |  9923 |
| 1007 | CSE    | Samanta  | 1997-02-24 |  7940 |
+------+--------+----------+------------+-------+
6 rows in set (0.00 sec)

mysql>
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+------+--------+----------+------------+-------+
| 1001 | ECE    | Joe      | 1995-06-23 |  5023 |
| 1002 | CSE    | Parryson | 1996-01-02 |  4567 |
| 1003 | MCH    | David.k  | 1997-08-03 |  9568 |
| 1004 | ECE    | Soumith  | 1995-03-20 | 10000 |
| 1005 | CSE    | Arol     | 1997-02-02 |  8000 |
| 1006 | ECE    | Mounesh  | 1996-03-20 |  9923 |
| 1007 | CSE    | Samanta  | 1997-02-24 |  7940 |
+------+--------+----------+------------+-------+
7 rows in set (0.00 sec)

mysql> delete from students where ID = 1001;
Query OK, 1 row affected (0.01 sec)

mysql> select * from students;
+------+--------+----------+------------+-------+
| ID   | BRANCH | Name     | DOB        | Rank  |
+------+--------+----------+------------+-------+
| 1002 | CSE    | Parryson | 1996-01-02 |  4567 |
| 1003 | MCH    | David.k  | 1997-08-03 |  9568 |
| 1004 | ECE    | Soumith  | 1995-03-20 | 10000 |
| 1005 | CSE    | Arol     | 1997-02-02 |  8000 |
| 1006 | ECE    | Mounesh  | 1996-03-20 |  9923 |
| 1007 | CSE    | Samanta  | 1997-02-24 |  7940 |
+------+--------+----------+------------+-------+
6 rows in set (0.00 sec)

mysql> alter table students add IPE decimal(10.2);
Query OK, 0 rows affected (0.02 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> select * from students;
+------+--------+----------+------------+-------+------+
| ID   | BRANCH | Name     | DOB        | Rank  | IPE  |
+------+--------+----------+------------+-------+------+
| 1002 | CSE    | Parryson | 1996-01-02 |  4567 | NULL |
| 1003 | MCH    | David.k  | 1997-08-03 |  9568 | NULL |
| 1004 | ECE    | Soumith  | 1995-03-20 | 10000 | NULL |
| 1005 | CSE    | Arol     | 1997-02-02 |  8000 | NULL |
| 1006 | ECE    | Mounesh  | 1996-03-20 |  9923 | NULL |
| 1007 | CSE    | Samanta  | 1997-02-24 |  7940 | NULL |
+------+--------+----------+------------+-------+------+
6 rows in set (0.00 sec)

mysql>
```

```
+------+--------+----------+------------+-------+
| 1002 | CSE    | Parryson | 1996-01-02 |  4567 |
| 1003 | MCH    | David.k  | 1997-08-03 |  9568 |
| 1004 | ECE    | Soumith  | 1995-03-20 | 10000 |
| 1005 | CSE    | Arol     | 1997-02-02 |  8000 |
| 1006 | ECE    | Mounesh  | 1996-03-20 |  9923 |
| 1007 | CSE    | Samanta  | 1997-02-24 |  7940 |
+------+--------+----------+------------+-------+
6 rows in set (0.00 sec)

mysql> alter table students add IPE decimal(10.2);
Query OK, 0 rows affected (0.02 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> select * from students;
+------+--------+----------+------------+-------+------+
| ID   | BRANCH | Name     | DOB        | Rank  | IPE  |
+------+--------+----------+------------+-------+------+
| 1002 | CSE    | Parryson | 1996-01-02 |  4567 | NULL |
| 1003 | MCH    | David.k  | 1997-08-03 |  9568 | NULL |
| 1004 | ECE    | Soumith  | 1995-03-20 | 10000 | NULL |
| 1005 | CSE    | Arol     | 1997-02-02 |  8000 | NULL |
| 1006 | ECE    | Mounesh  | 1996-03-20 |  9923 | NULL |
| 1007 | CSE    | Samanta  | 1997-02-24 |  7940 | NULL |
+------+--------+----------+------------+-------+------+
6 rows in set (0.00 sec)

mysql> alter table students drop column IPE;
Query OK, 0 rows affected (0.05 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> select * from students;
+------+--------+----------+------------+-------+
| ID   | BRANCH | Name     | DOB        | Rank  |
+------+--------+----------+------------+-------+
| 1002 | CSE    | Parryson | 1996-01-02 |  4567 |
| 1003 | MCH    | David.k  | 1997-08-03 |  9568 |
| 1004 | ECE    | Soumith  | 1995-03-20 | 10000 |
| 1005 | CSE    | Arol     | 1997-02-02 |  8000 |
| 1006 | ECE    | Mounesh  | 1996-03-20 |  9923 |
| 1007 | CSE    | Samanta  | 1997-02-24 |  7940 |
+------+--------+----------+------------+-------+
6 rows in set (0.00 sec)

mysql>
```

```
| 1005 | CSE    | Arol     | 1997-02-02 | 8000 | NULL |
| 1006 | ECE    | Mounesh  | 1996-03-20 | 9923 | NULL |
| 1007 | CSE    | Samanta  | 1997-02-24 | 7940 | NULL |
+------+--------+----------+------------+------+------+
6 rows in set (0.00 sec)

mysql> alter table students drop column IPE;
Query OK, 0 rows affected (0.05 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> select * from students;
+------+--------+---------+------------+------+
| ID   | BRANCH | Name    | DOB        | Rank |
+------+--------+---------+------------+------+
| 1002 | CSE    | Parryson | 1996-01-02 | 4567 |
| 1003 | MCH    | David.k | 1997-08-03 | 9568 |
| 1004 | ECE    | Soumith | 1995-03-20 | 10000 |
| 1005 | CSE    | Arol    | 1997-02-02 | 8000 |
| 1006 | ECE    | Mounesh | 1996-03-20 | 9923 |
| 1007 | CSE    | Samanta | 1997-02-24 | 7940 |
+------+--------+---------+------------+------+
6 rows in set (0.00 sec)

mysql> alter table students modify Name varchar(20);
Query OK, 0 rows affected (0.01 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> insert into students(ID,BRANCH,Name,DOB,`Rank`) values(1008, "ECE", "John harryson", "1997-03-25", 8940);
Query OK, 1 row affected (0.00 sec)

mysql> select * from students;
+------+--------+---------------+------------+------+
| ID   | BRANCH | Name          | DOB        | Rank |
+------+--------+---------------+------------+------+
| 1002 | CSE    | Parryson      | 1996-01-02 | 4567 |
| 1003 | MCH    | David.k       | 1997-08-03 | 9568 |
| 1004 | ECE    | Soumith       | 1995-03-20 | 10000 |
| 1005 | CSE    | Arol          | 1997-02-02 | 8000 |
| 1006 | ECE    | Mounesh       | 1996-03-20 | 9923 |
| 1007 | CSE    | Samanta       | 1997-02-24 | 7940 |
| 1008 | ECE    | John harryson | 1997-03-25 | 8940 |
+------+--------+---------------+------------+------+
7 rows in set (0.00 sec)

mysql>
```

```
+------+--------+---------+------------+------+
6 rows in set (0.00 sec)

mysql> alter table students modify Name varchar(20);
Query OK, 0 rows affected (0.01 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> insert into students(ID,BRANCH,Name,DOB,`Rank`) values(1008, "ECE", "John harryson", "1997-03-25", 8940);
Query OK, 1 row affected (0.00 sec)

mysql> select * from students;
+------+--------+---------------+------------+------+
| ID   | BRANCH | Name          | DOB        | Rank |
+------+--------+---------------+------------+------+
| 1002 | CSE    | Parryson      | 1996-01-02 | 4567 |
| 1003 | MCH    | David.k       | 1997-08-03 | 9568 |
| 1004 | ECE    | Soumith       | 1995-03-20 | 10000 |
| 1005 | CSE    | Arol          | 1997-02-02 | 8000 |
| 1006 | ECE    | Mounesh       | 1996-03-20 | 9923 |
| 1007 | CSE    | Samanta       | 1997-02-24 | 7940 |
| 1008 | ECE    | John harryson | 1997-03-25 | 8940 |
+------+--------+---------------+------------+------+
7 rows in set (0.00 sec)

mysql> insert into srudents(ID,Name,DOB,`Rank`) values(1009, "Kiran", "1996-04-22",1564);
ERROR 1146 (42S02): Table 'college.srudents' doesn't exist
mysql> insert into students(ID,Name,DOB,`Rank`) values(1009, "Kiran", "1996-04-22",1564);
Query OK, 1 row affected (0.01 sec)

mysql> select * from students;
+------+--------+---------------+------------+------+
| ID   | BRANCH | Name          | DOB        | Rank |
+------+--------+---------------+------------+------+
| 1002 | CSE    | Parryson      | 1996-01-02 | 4567 |
| 1003 | MCH    | David.k       | 1997-08-03 | 9568 |
| 1004 | ECE    | Soumith       | 1995-03-20 | 10000 |
| 1005 | CSE    | Arol          | 1997-02-02 | 8000 |
| 1006 | ECE    | Mounesh       | 1996-03-20 | 9923 |
| 1007 | CSE    | Samanta       | 1997-02-24 | 7940 |
| 1008 | ECE    | John harryson | 1997-03-25 | 8940 |
| 1009 | NULL   | Kiran         | 1996-04-22 | 1564 |
+------+--------+---------------+------------+------+
8 rows in set (0.00 sec)

mysql>
```

```
mysql> select * from students;
+------+--------+--------------+------------+-------+
| ID   | BRANCH | Name         | DOB        | Rank  |
+------+--------+--------------+------------+-------+
| 1002 | CSE    | Parryson     | 1996-01-02 |  4567 |
| 1003 | MCH    | David.k      | 1997-08-03 |  9568 |
| 1004 | ECE    | Soumith      | 1995-03-20 | 10000 |
| 1005 | CSE    | Arol         | 1997-02-02 |  8000 |
| 1006 | ECE    | Mounesh      | 1996-03-20 |  9923 |
| 1007 | CSE    | Samanta      | 1997-02-24 |  7940 |
| 1008 | ECE    | John harryson| 1997-03-25 |  8940 |
+------+--------+--------------+------------+-------+
7 rows in set (0.00 sec)

mysql> insert into srudents(ID,Name,DOB,`Rank`) values(1009, "Kiran", "1996-04-22",1564);
ERROR 1146 (42S02): Table 'college.srudents' doesn't exist
mysql> insert into students(ID,Name,DOB,`Rank`) values(1009, "Kiran", "1996-04-22",1564);
Query OK, 1 row affected (0.01 sec)

mysql> select * from students;
+------+--------+--------------+------------+-------+
| ID   | BRANCH | Name         | DOB        | Rank  |
+------+--------+--------------+------------+-------+
| 1002 | CSE    | Parryson     | 1996-01-02 |  4567 |
| 1003 | MCH    | David.k      | 1997-08-03 |  9568 |
| 1004 | ECE    | Soumith      | 1995-03-20 | 10000 |
| 1005 | CSE    | Arol         | 1997-02-02 |  8000 |
| 1006 | ECE    | Mounesh      | 1996-03-20 |  9923 |
| 1007 | CSE    | Samanta      | 1997-02-24 |  7940 |
| 1008 | ECE    | John harryson| 1997-03-25 |  8940 |
| 1009 | NULL   | Kiran        | 1996-04-22 |  1564 |
+------+--------+--------------+------------+-------+
8 rows in set (0.00 sec)

mysql> select * from students where `Rank` < 6000;
+------+--------+----------+------------+------+
| ID   | BRANCH | Name     | DOB        | Rank |
+------+--------+----------+------------+------+
| 1002 | CSE    | Parryson | 1996-01-02 | 4567 |
| 1009 | NULL   | Kiran    | 1996-04-22 | 1564 |
+------+--------+----------+------------+------+
2 rows in set (0.00 sec)

mysql>
```

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+------+--------+--------------+------------+-------+
| 1002 | CSE    | Parryson     | 1996-01-02 |  4567 |
| 1003 | MCH    | David.k      | 1997-08-03 |  9568 |
| 1004 | ECE    | Soumith      | 1995-03-20 | 10000 |
| 1005 | CSE    | Arol         | 1997-02-02 |  8000 |
| 1006 | ECE    | Mounesh      | 1996-03-20 |  9923 |
| 1007 | CSE    | Samanta      | 1997-02-24 |  7940 |
| 1008 | ECE    | John harryson| 1997-03-25 |  8940 |
| 1009 | NULL   | Kiran        | 1996-04-22 |  1564 |
+------+--------+--------------+------------+-------+
8 rows in set (0.00 sec)

mysql> select * from students where `Rank` < 6000;
+------+--------+----------+------------+------+
| ID   | BRANCH | Name     | DOB        | Rank |
+------+--------+----------+------------+------+
| 1002 | CSE    | Parryson | 1996-01-02 | 4567 |
| 1009 | NULL   | Kiran    | 1996-04-22 | 1564 |
+------+--------+----------+------------+------+
2 rows in set (0.00 sec)

mysql> select * from students where BRANCH = "ECE" OR BRANCH = "CSE";
+------+--------+--------------+------------+-------+
| ID   | BRANCH | Name         | DOB        | Rank  |
+------+--------+--------------+------------+-------+
| 1002 | CSE    | Parryson     | 1996-01-02 |  4567 |
| 1004 | ECE    | Soumith      | 1995-03-20 | 10000 |
| 1005 | CSE    | Arol         | 1997-02-02 |  8000 |
| 1006 | ECE    | Mounesh      | 1996-03-20 |  9923 |
| 1007 | CSE    | Samanta      | 1997-02-24 |  7940 |
| 1008 | ECE    | John harryson| 1997-03-25 |  8940 |
+------+--------+--------------+------------+-------+
6 rows in set (0.00 sec)

mysql> select * from students where BRANCH = "CSE" and `Rank` < 9000;
+------+--------+----------+------------+------+
| ID   | BRANCH | Name     | DOB        | Rank |
+------+--------+----------+------------+------+
| 1002 | CSE    | Parryson | 1996-01-02 | 4567 |
| 1005 | CSE    | Arol     | 1997-02-02 | 8000 |
| 1007 | CSE    | Samanta  | 1997-02-24 | 7940 |
+------+--------+----------+------------+------+
3 rows in set (0.00 sec)

mysql>
```

```
+------+--------+-----------+------------+------+
| 1002 | CSE    | Parryson  | 1996-01-02 | 4567 |
| 1009 | NULL   | Kiran     | 1996-04-22 | 1564 |
+------+--------+-----------+------------+------+
2 rows in set (0.00 sec)

mysql> select * from students where BRANCH = "ECE" OR BRANCH = "CSE";
+------+--------+---------------+------------+-------+
| ID   | BRANCH | Name          | DOB        | Rank  |
+------+--------+---------------+------------+-------+
| 1002 | CSE    | Parryson      | 1996-01-02 | 4567  |
| 1004 | ECE    | Soumith       | 1995-03-20 | 10000 |
| 1005 | CSE    | Arol          | 1997-02-02 | 8000  |
| 1006 | ECE    | Mounesh       | 1996-03-20 | 9923  |
| 1007 | CSE    | Samanta       | 1997-02-24 | 7940  |
| 1008 | ECE    | John harryson | 1997-03-25 | 8940  |
+------+--------+---------------+------------+-------+
6 rows in set (0.00 sec)

mysql> select * from students where BRANCH = "CSE" and `Rank` < 9000;
+------+--------+---------+------------+------+
| ID   | BRANCH | Name    | DOB        | Rank |
+------+--------+---------+------------+------+
| 1002 | CSE    | Parryson | 1996-01-02 | 4567 |
| 1005 | CSE    | Arol    | 1997-02-02 | 8000 |
| 1007 | CSE    | Samanta | 1997-02-24 | 7940 |
+------+--------+---------+------------+------+
3 rows in set (0.00 sec)

mysql> select * from students where DOB between January-1996 and January-1997;
ERROR 1054 (42S22): Unknown column 'January' in 'where clause'
mysql> select * from students where DOB between "1996-01-00" and "1997-01-00";
Empty set, 16 warnings (0.00 sec)

mysql> select * from students where DOB between "1996-01-01" and "1997-01-01";
+------+--------+---------+------------+------+
| ID   | BRANCH | Name    | DOB        | Rank |
+------+--------+---------+------------+------+
| 1002 | CSE    | Parryson | 1996-01-02 | 4567 |
| 1006 | ECE    | Mounesh | 1996-03-20 | 9923 |
| 1009 | NULL   | Kiran   | 1996-04-22 | 1564 |
+------+--------+---------+------------+------+
3 rows in set (0.00 sec)

mysql>
```

```
6 rows in set (0.00 sec)

mysql> select * from students where BRANCH = "CSE" and `Rank` < 9000;
+------+--------+---------+------------+------+
| ID   | BRANCH | Name    | DOB        | Rank |
+------+--------+---------+------------+------+
| 1002 | CSE    | Parryson | 1996-01-02 | 4567 |
| 1005 | CSE    | Arol    | 1997-02-02 | 8000 |
| 1007 | CSE    | Samanta | 1997-02-24 | 7940 |
+------+--------+---------+------------+------+
3 rows in set (0.00 sec)

mysql> select * from students where DOB between January-1996 and January-1997;
ERROR 1054 (42S22): Unknown column 'January' in 'where clause'
mysql> select * from students where DOB between "1996-01-00" and "1997-01-00";
Empty set, 16 warnings (0.00 sec)

mysql> select * from students where DOB between "1996-01-01" and "1997-01-01";
+------+--------+---------+------------+------+
| ID   | BRANCH | Name    | DOB        | Rank |
+------+--------+---------+------------+------+
| 1002 | CSE    | Parryson | 1996-01-02 | 4567 |
| 1006 | ECE    | Mounesh | 1996-03-20 | 9923 |
| 1009 | NULL   | Kiran   | 1996-04-22 | 1564 |
+------+--------+---------+------------+------+
3 rows in set (0.00 sec)

mysql> select Name from students where BRANCH != ECE or BRANCH != MCH;
ERROR 1054 (42S22): Unknown column 'ECE' in 'where clause'
mysql> select Name from students where BRANCH != "ECE" or BRANCH != "MCH";
+---------------+
| Name          |
+---------------+
| Parryson      |
| David.k       |
| Soumith       |
| Arol          |
| Mounesh       |
| Samanta       |
| John harryson |
+---------------+
7 rows in set (0.00 sec)

mysql>
```

```
mysql> select * from students where DOB between "1996-01-00" and "1997-01-00";
Empty set, 16 warnings (0.00 sec)

mysql> select * from students where DOB between "1996-01-01" and "1997-01-01";
+------+--------+----------+------------+------+
| ID   | BRANCH | Name     | DOB        | Rank |
+------+--------+----------+------------+------+
| 1002 | CSE    | Parryson | 1996-01-02 | 4567 |
| 1006 | ECE    | Mounesh  | 1996-03-20 | 9923 |
| 1009 | NULL   | Kiran    | 1996-04-22 | 1564 |
+------+--------+----------+------------+------+
3 rows in set (0.00 sec)

mysql> select Name from students where BRANCH != ECE or BRANCH != MCH;
ERROR 1054 (42S22): Unknown column 'ECE' in 'where clause'
mysql> select Name from students where BRANCH != "ECE" or BRANCH != "MCH";
+--------------+
| Name         |
+--------------+
| Parryson     |
| David.k      |
| Soumith      |
| Arol         |
| Mounesh      |
| Samanta      |
| John harryson|
+--------------+
7 rows in set (0.00 sec)

mysql> select * from students where Name = "S%";
Empty set (0.00 sec)

mysql> select * from students where Name = "s%";
Empty set (0.00 sec)

mysql> select * from students where Name like  "s%";
+------+--------+---------+------------+-------+
| ID   | BRANCH | Name    | DOB        | Rank  |
+------+--------+---------+------------+-------+
| 1004 | ECE    | Soumith | 1995-03-20 | 10000 |
| 1007 | CSE    | Samanta | 1997-02-24 | 7940  |
+------+--------+---------+------------+-------+
2 rows in set (0.00 sec)

mysql>
```

```
mysql> select * from students where length(Name) = 4;
+------+--------+------+------------+------+
| ID   | BRANCH | Name | DOB        | Rank |
+------+--------+------+------------+------+
| 1005 | CSE    | Arol | 1997-02-02 | 8000 |
+------+--------+------+------------+------+
1 row in set (0.00 sec)

mysql>
```

```
7 rows in set (0.00 sec)

mysql> select * from students where Name = "S%";
Empty set (0.00 sec)

mysql> select * from students where Name = "s%";
Empty set (0.00 sec)

mysql> select * from students where Name like  "s%";
+------+--------+---------+------------+-------+
| ID   | BRANCH | Name    | DOB        | Rank  |
+------+--------+---------+------------+-------+
| 1004 | ECE    | Soumith | 1995-03-20 | 10000 |
| 1007 | CSE    | Samanta | 1997-02-24 | 7940  |
+------+--------+---------+------------+-------+
2 rows in set (0.00 sec)

mysql> select * from students where length(Name) = 4;
+------+--------+------+------------+------+
| ID   | BRANCH | Name | DOB        | Rank |
+------+--------+------+------------+------+
| 1005 | CSE    | Arol | 1997-02-02 | 8000 |
+------+--------+------+------------+------+
1 row in set (0.00 sec)

mysql> update students set BRANCH = "Mec" where BRANCH = "MCH";
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from students;
+------+--------+---------------+------------+------+
| ID   | BRANCH | Name          | DOB        | Rank |
+------+--------+---------------+------------+------+
| 1002 | CSE    | Parryson      | 1996-01-02 | 4567 |
| 1003 | Mec    | David.k       | 1997-08-03 | 9568 |
| 1004 | ECE    | Soumith       | 1995-03-20 | 10000 |
| 1005 | CSE    | Arol          | 1997-02-02 | 8000 |
| 1006 | ECE    | Mounesh       | 1996-03-20 | 9923 |
| 1007 | CSE    | Samanta       | 1997-02-24 | 7940 |
| 1008 | ECE    | John harryson | 1997-03-25 | 8940 |
| 1009 | NULL   | Kiran         | 1996-04-22 | 1564 |
+------+--------+---------------+------------+------+
8 rows in set (0.00 sec)

mysql>
```

```
Empty set (0.00 sec)

mysql> select * from students where Name like  "s%";
+------+--------+---------+------------+-------+
| ID   | BRANCH | Name    | DOB        | Rank  |
+------+--------+---------+------------+-------+
| 1004 | ECE    | Soumith | 1995-03-20 | 10000 |
| 1007 | CSE    | Samanta | 1997-02-24 | 7940  |
+------+--------+---------+------------+-------+
2 rows in set (0.00 sec)

mysql> select * from students where length(Name) = 4;
+------+--------+------+------------+------+
| ID   | BRANCH | Name | DOB        | Rank |
+------+--------+------+------------+------+
| 1005 | CSE    | Arol | 1997-02-02 | 8000 |
+------+--------+------+------------+------+
1 row in set (0.00 sec)

mysql> update students set BRANCH = "Mec" where BRANCH = "MCH";
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from students;
+------+--------+---------------+------------+------+
| ID   | BRANCH | Name          | DOB        | Rank |
+------+--------+---------------+------------+------+
| 1002 | CSE    | Parryson      | 1996-01-02 | 4567 |
| 1003 | Mec    | David.k       | 1997-08-03 | 9568 |
| 1004 | ECE    | Soumith       | 1995-03-20 | 10000 |
| 1005 | CSE    | Arol          | 1997-02-02 | 8000 |
| 1006 | ECE    | Mounesh       | 1996-03-20 | 9923 |
| 1007 | CSE    | Samanta       | 1997-02-24 | 7940 |
| 1008 | ECE    | John harryson | 1997-03-25 | 8940 |
| 1009 | NULL   | Kiran         | 1996-04-22 | 1564 |
+------+--------+---------------+------------+------+
8 rows in set (0.00 sec)

mysql> delete from students;
Query OK, 8 rows affected (0.02 sec)

mysql> select * from students;
Empty set (0.00 sec)

mysql>
```

```
+------+--------+------+------------+------+
| ID   | BRANCH | Name | DOB        | Rank |
+------+--------+------+------------+------+
| 1005 | CSE    | Arol | 1997-02-02 | 8000 |
+------+--------+------+------------+------+
1 row in set (0.00 sec)

mysql> update students set BRANCH = "Mec" where BRANCH = "MCH";
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from students;
+------+--------+---------------+------------+-------+
| ID   | BRANCH | Name          | DOB        | Rank  |
+------+--------+---------------+------------+-------+
| 1002 | CSE    | Parryson      | 1996-01-02 |  4567 |
| 1003 | Mec    | David.k       | 1997-08-03 |  9568 |
| 1004 | ECE    | Soumith       | 1995-03-20 | 10000 |
| 1005 | CSE    | Arol          | 1997-02-02 |  8000 |
| 1006 | ECE    | Mounesh       | 1996-03-20 |  9923 |
| 1007 | CSE    | Samanta       | 1997-02-24 |  7940 |
| 1008 | ECE    | John harryson | 1997-03-25 |  8940 |
| 1009 | NULL   | Kiran         | 1996-04-22 |  1564 |
+------+--------+---------------+------------+-------+
8 rows in set (0.00 sec)

mysql> delete from students;
Query OK, 8 rows affected (0.02 sec)

mysql> select * from students;
Empty set (0.00 sec)

mysql> desc students;
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| ID     | int         | YES  | UNI | NULL    |       |
| BRANCH | char(3)     | YES  |     | NULL    |       |
| Name   | varchar(20) | YES  |     | NULL    |       |
| DOB    | date        | YES  |     | NULL    |       |
| Rank   | int         | YES  |     | NULL    |       |
+--------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)

mysql>
```