CREATE TABLE STUDENT1

-> ( ROLL\_NO int primary key,

-> NAME varchar(20),

-> GENDER char(10),

-> SUBJECT char(20),

-> MARKS int,

-> DOB date);

Insert into student1

* Values(1,’Raj Kumar’,’M’,’Webtech’,93,’2000-11-17’);

Query OK, 1 row affected (0.01 sec)

Mysql> insert into student1

* Values(2,’Deep Singh’,’M’,’C’,98,’1996-08-22’);

Query OK, 1 row affected (0.02 sec)

Mysql> insert into student1

* Values(3,’Ankit Sharma’,’M’,’DBMS’,76,’2000-02-02’);

Query OK, 1 row affected

mysql> insert into student1

-> values(4,'Radhika Gupta','F','Webtech',78,'1999-12-03');

Query OK, 1 row affected (0.02 sec)

mysql> insert into student1

-> values(5,'Payal Goel','F','DBMS',82,'1998-04-21');

Query OK, 1 row affected (0.01 sec)

mysql> insert into student1

-> values(6,'Diksha Sharma','F','DBMS',80,'1999-12-17');

Query OK, 1 row affected (0.01 sec)

Insert into student1

* Values(7,’Gurpreet Kaur’,’F’,’C’,65,’2000-01-04’);

Query OK, 1 row affected (0.03 sec)

Mysql> insert into student1

* Values(8,’Akshay Dureja’,’M’,’Webtech’,90,’1997-05-05’);

Query OK, 1 row affected (0.13 sec)

Mysql> insert into student1

* Values(9,’Shreya Anand’,’F’,’C’,70,’1999-10-08’);

Query OK, 1 row affected (0.02 sec)

Mysql> insert into student1

* Values(10,’Prateek Mittal’,’M’,’DBMS’,75,’2000-12-25’);

Desc student1;

+---------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------+-------------+------+-----+---------+-------+

| ROLL\_NO | int | NO | PRI | NULL | |

| NAME | varchar(20) | YES | | NULL | |

| GENDER | char(10) | YES | | NULL | |

| SUBJECT | char(20) | YES | | NULL | |

| MARKS | int | YES | | NULL | |

| DOB | date | YES | | NULL | |

+---------+-------------+------+-----+---------+-------+

Select \* from student1;

+---------+----------------+--------+---------+-------+------------+

| ROLL\_NO | NAME | GENDER | SUBJECT | MARKS | DOB |

+---------+----------------+--------+---------+-------+------------+

| 1 | Raj Kumar | M | Webtech | 93 | 2000-11-17 |

| 2 | Deep Singh | M | C | 98 | 1996-08-22 |

| 3 | Ankit Sharma | M | DBMS | 76 | 2000-02-02 |

| 4 | Radhika Gupta | F | Webtech | 78 | 1999-12-03 |

| 5 | Payal Goel | F | DBMS | 82 | 1998-04-21 |

| 6 | Diksha Sharma | F | DBMS | 80 | 1999-12-17 |

| 7 | Gurpreet Kaur | F | C | 65 | 2000-01-04 |

| 8 | Akshay Dureja | M | Webtech | 90 | 1997-05-05 |

| 9 | Shreya Anand | F | C | 70 | 1999-10-08 |

| 10 | Prateek Mittal | M | DBMS | 75 | 2000-12-25 |

+---------+----------------+--------+---------+-------+------------+

Alter table student1 add(MOBILE\_NO int);

Alter table student1 add(CITY CHAR(10) DEFAULT “DELHI”);

Alter table student1

* Change city state varchar(10);

Select \* from student1;

+---------+----------------+--------+---------+-------+------------+-----------+-------+

| ROLL\_NO | NAME | GENDER | SUBJECT | MARKS | DOB | MOBILE\_NO | state |

+---------+----------------+--------+---------+-------+------------+-----------+-------+

| 1 | Raj Kumar | M | Webtech | 93 | 2000-11-17 | NULL | DELHI |

| 2 | Deep Singh | M | C | 98 | 1996-08-22 | NULL | DELHI |

| 3 | Ankit Sharma | M | DBMS | 76 | 2000-02-02 | NULL | DELHI |

| 4 | Radhika Gupta | F | Webtech | 78 | 1999-12-03 | NULL | DELHI |

| 5 | Payal Goel | F | DBMS | 82 | 1998-04-21 | NULL | DELHI |

| 6 | Diksha Sharma | F | DBMS | 80 | 1999-12-17 | NULL | DELHI |

| 7 | Gurpreet Kaur | F | C | 65 | 2000-01-04 | NULL | DELHI |

| 8 | Akshay Dureja | M | Webtech | 90 | 1997-05-05 | NULL | DELHI |

| 9 | Shreya Anand | F | C | 70 | 1999-10-08 | NULL | DELHI |

| 10 | Prateek Mittal | M | DBMS | 75 | 2000-12-25 | NULL | DELHI |

+---------+----------------+--------+---------+-------+------------+-----------+-------+

Mysql> alter table student1

* Drop state;

Query OK, 0 rows affected (0.05 sec)

Records: 0 Duplicates: 0 Warnings: 0

Mysql> select \* from student1;

+---------+----------------+--------+---------+-------+------------+-----------+

| ROLL\_NO | NAME | GENDER | SUBJECT | MARKS | DOB | MOBILE\_NO |

+---------+----------------+--------+---------+-------+------------+-----------+

| 1 | Raj Kumar | M | Webtech | 93 | 2000-11-17 | NULL |

| 2 | Deep Singh | M | C | 98 | 1996-08-22 | NULL |

| 3 | Ankit Sharma | M | DBMS | 76 | 2000-02-02 | NULL |

| 4 | Radhika Gupta | F | Webtech | 78 | 1999-12-03 | NULL |

| 5 | Payal Goel | F | DBMS | 82 | 1998-04-21 | NULL |

| 6 | Diksha Sharma | F | DBMS | 80 | 1999-12-17 | NULL |

| 7 | Gurpreet Kaur | F | C | 65 | 2000-01-04 | NULL |

| 8 | Akshay Dureja | M | Webtech | 90 | 1997-05-05 | NULL |

| 9 | Shreya Anand | F | C | 70 | 1999-10-08 | NULL |

| 10 | Prateek Mittal | M | DBMS | 75 | 2000-12-25 | NULL |

+---------+----------------+--------+---------+-------+------------+-----------+

Update student1 set marks = 88 where roll\_no = 8;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

Mysql> select \* from student1;

+---------+----------------+--------+---------+-------+------------+-----------+

| ROLL\_NO | NAME | GENDER | SUBJECT | MARKS | DOB | MOBILE\_NO |

+---------+----------------+--------+---------+-------+------------+-----------+

| 1 | Raj Kumar | M | Webtech | 93 | 2000-11-17 | NULL |

| 2 | Deep Singh | M | C | 98 | 1996-08-22 | NULL |

| 3 | Ankit Sharma | M | DBMS | 76 | 2000-02-02 | NULL |

| 4 | Radhika Gupta | F | Webtech | 78 | 1999-12-03 | NULL |

| 5 | Payal Goel | F | DBMS | 82 | 1998-04-21 | NULL |

| 6 | Diksha Sharma | F | DBMS | 80 | 1999-12-17 | NULL |

| 7 | Gurpreet Kaur | F | C | 65 | 2000-01-04 | NULL |

| 8 | Akshay Dureja | M | Webtech | 88 | 1997-05-05 | NULL |

| 9 | Shreya Anand | F | C | 70 | 1999-10-08 | NULL |

| 10 | Prateek Mittal | M | DBMS | 75 | 2000-12-25 | NULL |

Delete from student1 where roll\_no = 10;

Query OK, 1 row affected (0.01 sec)

Mysql> select \* from student1;

+---------+---------------+--------+---------+-------+------------+-----------+

| ROLL\_NO | NAME | GENDER | SUBJECT | MARKS | DOB | MOBILE\_NO |

+---------+---------------+--------+---------+-------+------------+-----------+

| 1 | Raj Kumar | M | Webtech | 93 | 2000-11-17 | NULL |

| 2 | Deep Singh | M | C | 98 | 1996-08-22 | NULL |

| 3 | Ankit Sharma | M | DBMS | 76 | 2000-02-02 | NULL |

| 4 | Radhika Gupta | F | Webtech | 78 | 1999-12-03 | NULL |

| 5 | Payal Goel | F | DBMS | 82 | 1998-04-21 | NULL |

| 6 | Diksha Sharma | F | DBMS | 80 | 1999-12-17 | NULL |

| 7 | Gurpreet Kaur | F | C | 65 | 2000-01-04 | NULL |

| 8 | Akshay Dureja | M | Webtech | 88 | 1997-05-05 | NULL |

| 9 | Shreya Anand | F | C | 70 | 1999-10-08 | NULL |

+---------+---------------+--------+---------+-------+------------+-----------+

9 rows in set (0.00 sec)

Select roll\_no, name, marks from student1 where marks>=90;

|  |  |  |
| --- | --- | --- |
|  |  |  |

| roll\_no | name | marks |

|  |  |  |
| --- | --- | --- |
|  |  |  |

| 1 | Raj Kumar | 93 |

| 2 | Deep Singh | 98 |

|  |  |  |
| --- | --- | --- |
|  |  |  |

2 rows in set (0.00 sec)

Mysql> select roll\_no, name, marks from student1 where marks<=79;

+---------+---------------+-------+

| roll\_no | name | marks |

+---------+---------------+-------+

| 3 | Ankit Sharma | 76 |

| 4 | Radhika Gupta | 78 |

| 7 | Gurpreet Kaur | 65 |

| 9 | Shreya Anand | 70 |

+---------+---------------+-------+

4 rows in set (0.00 sec)

Select \* from student1 where marks > 80 and gender= “m”;

+---------+---------------+--------+---------+-------+------------+-----------+

| ROLL\_NO | NAME | GENDER | SUBJECT | MARKS | DOB | MOBILE\_NO |

+---------+---------------+--------+---------+-------+------------+-----------+

| 1 | Raj Kumar | M | Webtech | 93 | 2000-11-17 | NULL |

| 2 | Deep Singh | M | C | 98 | 1996-08-22 | NULL |

| 8 | Akshay Dureja | M | Webtech | 88 | 1997-05-05 | NULL |

+---------+---------------+--------+---------+-------+------------+-----------+

3 rows in set (0.00 sec)

Select roll\_no, name, subject from student1 where subject = “dbms” or subject = “c” ;

+---------+---------------+---------+

| roll\_no | name | subject |

+---------+---------------+---------+

| 2 | Deep Singh | C |

| 3 | Ankit Sharma | DBMS |

| 5 | Payal Goel | DBMS |

| 6 | Diksha Sharma | DBMS |

| 7 | Gurpreet Kaur | C |

| 9 | Shreya Anand | C |

+---------+---------------+---------+

6 rows in set (0.00 sec)

Select name, marks from student1 where not (subject =”dbms”) ;

|  |  |
| --- | --- |
|  |  |

| name | marks |

|  |  |
| --- | --- |
|  |  |

| Raj Kumar | 93 |

| Deep Singh | 98 |

| Radhika Gupta | 78 |

| Gurpreet Kaur | 65 |

| Akshay Dureja | 88 |

| Shreya Anand | 70 |

|  |  |
| --- | --- |
|  |  |

6 rows in set (0.00 sec)

Select \* from student1 where subject in(“c”, “webtech”);

+---------+---------------+--------+---------+-------+------------+-----------+

| ROLL\_NO | NAME | GENDER | SUBJECT | MARKS | DOB | MOBILE\_NO |

+---------+---------------+--------+---------+-------+------------+-----------+

| 1 | Raj Kumar | M | Webtech | 93 | 2000-11-17 | NULL |

| 2 | Deep Singh | M | C | 98 | 1996-08-22 | NULL |

| 4 | Radhika Gupta | F | Webtech | 78 | 1999-12-03 | NULL |

| 7 | Gurpreet Kaur | F | C | 65 | 2000-01-04 | NULL |

| 8 | Akshay Dureja | M | Webtech | 88 | 1997-05-05 | NULL |

| 9 | Shreya Anand | F | C | 70 | 1999-10-08 | NULL |

+---------+---------------+--------+---------+-------+------------+-----------+

6 rows in set (0.00 sec)

Mysql> select \* from student1 where subject not in(“c”, “webtech”);

+---------+---------------+--------+---------+-------+------------+-----------+

| ROLL\_NO | NAME | GENDER | SUBJECT | MARKS | DOB | MOBILE\_NO |

+---------+---------------+--------+---------+-------+------------+-----------+

| 3 | Ankit Sharma | M | DBMS | 76 | 2000-02-02 | NULL |

| 5 | Payal Goel | F | DBMS | 82 | 1998-04-21 | NULL |

| 6 | Diksha Sharma | F | DBMS | 80 | 1999-12-17 | NULL |

+---------+---------------+--------+---------+-------+------------+-----------+

Select \* from student1 where name like ‘d%’;

+---------+---------------+--------+---------+-------+------------+-----------+

| ROLL\_NO | NAME | GENDER | SUBJECT | MARKS | DOB | MOBILE\_NO |

+---------+---------------+--------+---------+-------+------------+-----------+

| 2 | Deep Singh | M | C | 98 | 1996-08-22 | NULL |

| 6 | Diksha Sharma | F | DBMS | 80 | 1999-12-17 | NULL |

+---------+---------------+--------+---------+-------+------------+-----------+

2 rows in set (0.00 sec)

Mysql> select \* from student1 where name like ‘%i’;

Empty set (0.00 sec)

Select \* from student1 where name like ‘%a’;

+---------+---------------+--------+---------+-------+------------+-----------+

| ROLL\_NO | NAME | GENDER | SUBJECT | MARKS | DOB | MOBILE\_NO |

+---------+---------------+--------+---------+-------+------------+-----------+

| 3 | Ankit Sharma | M | DBMS | 76 | 2000-02-02 | NULL |

| 4 | Radhika Gupta | F | Webtech | 78 | 1999-12-03 | NULL |

| 6 | Diksha Sharma | F | DBMS | 80 | 1999-12-17 | NULL |

| 8 | Akshay Dureja | M | Webtech | 88 | 1997-05-05 | NULL |

+---------+---------------+--------+---------+-------+------------+-----------+

4 rows in set (0.00 sec)

Mysql> select \* from student1 where name like ‘%s%’;

+---------+---------------+--------+---------+-------+------------+-----------+

| ROLL\_NO | NAME | GENDER | SUBJECT | MARKS | DOB | MOBILE\_NO |

+---------+---------------+--------+---------+-------+------------+-----------+

| 2 | Deep Singh | M | C | 98 | 1996-08-22 | NULL |

| 3 | Ankit Sharma | M | DBMS | 76 | 2000-02-02 | NULL |

| 6 | Diksha Sharma | F | DBMS | 80 | 1999-12-17 | NULL |

| 8 | Akshay Dureja | M | Webtech | 88 | 1997-05-05 | NULL |

| 9 | Shreya Anand | F | C | 70 | 1999-10-08 | NULL |

+---------+---------------+--------+---------+-------+------------+-----------+

Select roll\_no, name, marks from student1 order by name;

+---------+---------------+-------+

| roll\_no | name | marks |

+---------+---------------+-------+

| 8 | Akshay Dureja | 88 |

| 3 | Ankit Sharma | 76 |

| 2 | Deep Singh | 98 |

| 6 | Diksha Sharma | 80 |

| 7 | Gurpreet Kaur | 65 |

| 5 | Payal Goel | 82 |

| 4 | Radhika Gupta | 78 |

| 1 | Raj Kumar | 93 |

| 9 | Shreya Anand | 70 |

+---------+---------------+-------+

9 rows in set (0.00 sec)

Select roll\_no, name, marks from student1 order by marks, name;

+---------+---------------+-------+

| roll\_no | name | marks |

+---------+---------------+-------+

| 7 | Gurpreet Kaur | 65 |

| 9 | Shreya Anand | 70 |

| 3 | Ankit Sharma | 76 |

| 4 | Radhika Gupta | 78 |

| 6 | Diksha Sharma | 80 |

| 5 | Payal Goel | 82 |

| 8 | Akshay Dureja | 88 |

| 1 | Raj Kumar | 93 |

| 2 | Deep Singh | 98 |

+---------+---------------+-------+

9 rows in set (0.00 sec)

Select roll\_no, name, marks from student1 order by marks desc, dob;

+---------+---------------+-------+

| roll\_no | name | marks |

+---------+---------------+-------+

| 2 | Deep Singh | 98 |

| 1 | Raj Kumar | 93 |

| 8 | Akshay Dureja | 88 |

| 5 | Payal Goel | 82 |

| 6 | Diksha Sharma | 80 |

| 4 | Radhika Gupta | 78 |

| 3 | Ankit Sharma | 76 |

| 9 | Shreya Anand | 70 |

| 7 | Gurpreet Kaur | 65 |

+---------+---------------+-------+

9 rows in set (0.00 sec)

Select count(dob) from student1;

|  |
| --- |
|  |

| count(dob) |

|  |
| --- |
|  |

| 9 |

|  |
| --- |
|  |

1 row in set (0.01 sec)

Mysql> select min(marks) from student1;

|  |
| --- |
|  |

| min(marks) |

|  |
| --- |
|  |

| 65 |

|  |
| --- |
|  |

1 row in set (0.22 sec)

Mysql> select max(marks) from student1;

|  |
| --- |
|  |

| max(marks) |

|  |
| --- |
|  |

| 98 |

|  |
| --- |
|  |

1 row in set (0.00 sec)

Mysql> select avg(dob) from student1;

|  |
| --- |
|  |

| avg(dob) |

|  |
| --- |
|  |

| 19987399.8889 |

|  |
| --- |
|  |

1 row in set (0.05 sec)

Mysql> select avg(marks) from student1;

|  |
| --- |
|  |

| avg(marks) |

|  |
| --- |
|  |

| 81.1111 |

|  |
| --- |
|  |

1 row in set (0.00 sec)

Mysql> select sum(marks) from student1;

|  |
| --- |
|  |

| sum(marks) |

|  |
| --- |
|  |

| 730 |

|  |
| --- |
|  |

1 row in set (0.00 sec)

Select subject, count(\*) as total\_student from student1 group by subject;

|  |  |
| --- | --- |
|  |  |

| subject | total\_student |

|  |  |
| --- | --- |
|  |  |

| Webtech | 3 |

| C | 3 |

| DBMS | 3 |

|  |  |
| --- | --- |
|  |  |

3 rows in set (0.01 sec

Select subject, avg(marks) as average\_marks from student1 group by subject having avg(marks)> 75;

|  |  |
| --- | --- |
|  |  |

| subject | average\_marks |

|  |  |
| --- | --- |
|  |  |

| Webtech | 86.3333 |

| C | 77.6667 |

| DBMS | 79.3333 |

|  |  |
| --- | --- |
|  |  |

3 rows in set (0.01 sec)