1. Create a database "college".

mysql> create database college;

Query OK, 1 row affected (0.06 sec)

2. Create a table 'student' with columns (id, name, date of birth, gender, branch, section, year, address) under the "college" database.

mysql> use college;

Database changed

mysql> create table student (id int primary key, name varchar(10), date_of_birth date, gender char(1), branch varchar(10), section char(1), year int, address varchar(10));

Query OK, 0 rows affected (0.10 sec)

3. Insert 10 rows into the table.

mysql> insert into student (id,name,date_of_birth,gender,branch,section,year,address) values (101,'Larine','2002-10-15','F','cse','A',2024,'Beltangady');

Query OK, 1 row affected (0.05 sec)

mysql> insert into student (id,name,date_of_birth,gender,branch,section,year,address) values (102,'Keerthana','2002-09-29','F','cse','A',2024,'ujre'), (103,'Nishmitha','2003-

03-09', 'F', 'cse', 'A', 2024, 'darmastala'), (104, 'Shamla', '2001-09-

26', 'F', 'cse', 'A', 2024, 'vitla'), (105, 'Poornima', '2001-09-

02','F','cse','A',2024,'darmastala');

Query OK, 4 rows affected (0.04 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> insert into student (id,name,date_of_birth,gender,branch,section,year,address) values (106,'Deena','2002-09-04','F','bds','E',2024,'badyar'), (107,'Jasmine','2003-08-09','F','eee','F',2024,'manglore'), (108,'John','2001-09-21','M','ece','B',2024,'vitla'), (109,'Poornima K','2003-09-02','F','cse','A',2025,'darmastala'), (110,'Manvi','2003-05-29','F','cse','A',2025,'Shirlalu');

Query OK, 5 rows affected (0.04 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> select * from student;

```
+----+-----+------+
           | date_of_birth | gender | branch | section | year | address |
+----+
                            cse A
| 101 | Larine | 2002-10-15 | F
                                       | 2024 | Beltangady |
                         | F
| 102 | Keerthana | 2002-09-29
                              cse A
                                        | 2024 | ujre
| 103 | Nishmitha | 2003-03-09
                                        | 2024 | darmastala |
                        | F
                              cse A
| 104 | Shamla
            | 2001-09-26 | F
                             cse A
                                        | 2024 | vitla
| 105 | Poornima | 2001-09-02
                             cse A
                                        | 2024 | darmastala |
| 106 | Deena
            | 2002-09-04 | F
                             | bds | E
                                       | 2024 | badyar
| 107 | Jasmine | 2003-08-09 | F
                             leee | F
                                       | 2024 | manglore |
| 108 | John
           | 2001-09-21 | M
                            ece B
                                       | 2024 | vitla
| 109 | Poornima K | 2003-09-02 | F
                              cse A
                                         | 2025 | darmastala |
            | 2003-05-29 | F
                             cse A
                                       | 2025 | Shirlalu |
| 110 | Manvi
+----+-----+-----+------+
```

```
10 rows in set (0.00 sec)
```

4. Create a user with username: 'admin' and password: 'admin@123' with all the permissions like select, create, alter, drop, truncate, insert, update, and delete.

mysql> create user admin identified by 'admin@123';

Query OK, 0 rows affected (0.07 sec)

mysql> grant select, create, alter, drop, truncate, insert, update, delete on college.student to admin;

ERROR 3619 (HY000): Illegal privilege level specified for student

5. Create user username: 'principal' and password: 'principal@123' with select, insert, update, and delete permissions.

mysql> create user principal identified by 'principal@123';

Query OK, 0 rows affected (0.06 sec)

mysql> grant select,

-> insert, update, delete on student to principal;

Query OK, 0 rows affected (0.05 sec)

6. Create user username: 'faculty' and password: 'faculty@123' with select, and update permissions.

mysql> create user faculty identified by 'faculty@123';

Query OK, 0 rows affected (0.06 sec)

mysql> grant select, update on student to faculty;

Query OK, 0 rows affected (0.04 sec)

7. Create user username: 'student' without a password and with select permission only.

mysql> create user student;

Query OK, 0 rows affected (0.05 sec)

mysql> grant select on student to student;

Query OK, 0 rows affected (0.01 sec)

8. Login with the 'admin' user and add a new column phone number. mysql> use college;

ERROR 1044 (42000): Access denied for user 'admin'@'%' to database 'college'

9. Login with the 'principal' user and add 5 more new rows to the table with all column values including phone numbers.

mysql> alter table student add (ph int);

ERROR 1142 (42000): ALTER command denied to user 'principal'@'localhost' for table 'student'

10. Login with the 'faculty' user and update all the 10 students' phone numbers.

mysql> alter table student add(ph int);

ERROR 1142 (42000): ALTER command denied to user 'faculty' @ 'localhost' for table 'student'

11. Login with the 'student' user and display the following outputs:

mysql> select * from student; +----+-----+------+------+ | id | name | date of birth | gender | branch | section | year | address +----+-----+-----+------+ | 101 | Larine | 2002-10-15 | F | cse | A | 2024 | Beltangady | | 102 | Keerthana | 2002-09-29 | F cse A | 2024 | ujre | 103 | Nishmitha | 2003-03-09 | F cse A | **2024** | **darmastala** | | 104 | Shamla | 2001-09-26 | F cse A | 2024 | vitla | 105 | Poornima | 2001-09-02 | F cse A | 2024 | darmastala | | 106 | Deena | 2002-09-04 | F | bds | E | 2024 | badyar | 107 | Jasmine | 2003-08-09 | F | eee | F | 2024 | manglore | | 108 | John | 2001-09-21 | M ece B | 2024 | vitla | 109 | Poornima K | 2003-09-02 | F | cse | A | 2025 | darmastala | | 110 | Manvi | 2003-05-29 | F | cse | A | 2025 | Shirlalu | | 2009-03-09 | M | 111 | Jay cse D | 2024 | ujre +----+-----+-----+------+ 11 rows in set (0.00 sec) b. Display only one student data record with any given phone number. mysql> alter table student add (ph int); ERROR 1142 (42000): ALTER command denied to user 'student'@'localhost' for table 'student' c. Display students from any one branch mysql> select * from student where branch='ece'; +----+-----+ | id | name | date_of_birth | gender | branch | section | year | address | +----+ | 108 | John | 2001-09-21 | M | ece | B | 2024 | vitla | +----+-----+-----+-----+ **1 row in set (0.04 sec)** d. Display students from any specific branch and specific section. mysql> select * from student where branch='cse' and section='A'; +----+-----+-----+------+ | date of birth | gender | branch | section | year | address | id | name +----+-----+-----+------+ | 101 | Larine | 2002-10-15 | F | cse | A | 2024 | Beltangady | | 102 | Keerthana | 2002-09-29 | F | cse | A | | 2024 | ujre | 103 | Nishmitha | 2003-03-09 | F cse A | 2024 | darmastala | | 104 | Shamla | 2001-09-26 | F | cse | A | 2024 | vitla | 105 | Poornima | 2001-09-02 | F | cse | A | 2024 | darmastala | | 109 | Poornima K | 2003-09-02 | F | cse | A | 2025 | darmastala | | 110 | Manvi | 2003-05-29 | F | cse | A | **2025** | **Shirlalu** | +----+-----+-----+------+ 7 rows in set (0.00 sec)e. Display girl students from the table.

a. Display all the student data records.

```
mysql> select * from student where gender='F';
+----+
          | date_of_birth | gender | branch | section | year | address
+----+-----+-----+------+
| 101 | Larine | 2002-10-15 | F
                            cse A
                                      | 2024 | Beltangady |
| 102 | Keerthana | 2002-09-29 | F
                             cse A
                                       | 2024 | ujre
| 103 | Nishmitha | 2003-03-09 | F
                             cse A
                                       | 2024 | darmastala |
| 104 | Shamla
            | 2001-09-26 | F
                            cse A
                                      | 2024 | vitla
| 105 | Poornima | 2001-09-02 | F
                            cse A
                                      | 2024 | darmastala |
            | 2002-09-04 | F
| 106 | Deena
                            | bds | E
                                      | 2024 | badyar
| 107 | Jasmine | 2003-08-09 | F
                            eee F
                                      | 2024 | manglore |
| 109 | Poornima K | 2003-09-02 | F | cse | A
                                       | 2025 | darmastala |
          | 2003-05-29 | F | cse | A
                                      | 2025 | Shirlalu |
| 110 | Manvi
+----+-----+-----+------+
```

9 rows in set (0.00 sec)

12. Revoke all the permissions from the user 'admin'.

mysql> revoke insert on student from admin; Query OK, 0 rows affected (0.05 sec)

13. Revoke only insert permission from the user 'principal'.

mysql> revoke insert on student from principal; Query OK, 0 rows affected (0.04 sec)

14. Revoke update permission from the user 'faculty'. mysql> revoke update on student from faculty;

Query OK, 0 rows affected (0.05 sec)

15. Revoke all the permissions from the user 'student'.

mysql> revoke insert on student from student;

Query OK, 0 rows affected (0.01 sec)