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,'Darshan','2002-10-15','M','cse','A',2024,'Beltangady'); Query OK, 1
   rowaffected (0.05 sec) mysql> insert into student
   (id,name,date_of_birth,gender,branch,section,year,address) values
   (102,'Veeresh','2002-09-29','M','cse','A',2024,'ujre'), (103,'bhuvan','2003-
   03-09','M','cse','A',2024,'darmastala'), (104,'ramesh','2001-
   0926','M','cse','A',2024,'vitla'), (105,'spoorthi','2001-
   0902','F','cse','A',2024,'darmastala');
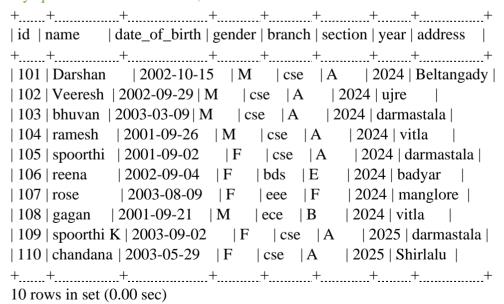   Query OK, 4 rows affected (0.04 sec) Records:
   4 Duplicates: 0 Warnings: 0
   mysql> insert into student (id,name,date_of_birth,gender,branch,section,year,address)
   values (106,'reena','2002-09-04','F','bds','E',2024,'badyar'), (107,'rose','2003-
   0809','F','eee','F',2024,'manglore'), (108,'gagan','2001-09-21','M','ece','B',2024,'vitla'),
   (109,'spoorthi K','2003-09-02','F','cse','A',2025,'darmastala'),
   (110,'chandana','2003-0529','F','cse','A',2025,'Shirlalu');
   Query OK, 5 rows affected (0.04 sec)
   Records: 5 Duplicates: 0 Warnings: 0

   mysql> select * from student;

id	name	date_of_birth	gender	branch	section	year	address
101	Darshan	2002-10-15	M	cse	A	2024	Beltangady
102	Veeresh	2002-09-29	M	cse	A	2024	ujre
103	bhuvan	2003-03-09	M	cse	A	2024	darmastala
104	ramesh	2001-09-26	M	cse	A	2024	vitla
105	spoorthi	2001-09-02	F	cse	A	2024	darmastala
106	reena	2002-09-04	F	bds	E	2024	badyar
107	rose	2003-08-09	F	eee	F	2024	manglore
108	gagan	2001-09-21	M	ece	B	2024	vitla
109	spoorthi K	2003-09-02	F	cse	A	2025	darmastala
110	chandana	2003-05-29	F	cse	A	2025	Shirlalu

   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:**

a. **Display all the student data records.**
   mysql> select * from student;
   +-----+------------+---------------+--------+--------+---------+------+------------+
   | id | name | date_of_birth | gender | branch | section | year | address |

```
+-----+------------+---------------+--------+--------+---------+------+------------+
| 101 | Darshan    | 2002-10-15    | M      | cse    | A       | 2024 | Beltangady |
| 102 | Veeresh    | 2002-09-29    | M      | cse    | A       | 2024 | ujre       |
| 103 | bhuvan     | 2003-03-09    | M      | cse    | A       | 2024 | darmastala |
| 104 | ramesh     | 2001-09-26    | M      | cse    | A       | 2024 | vitla      |
| 105 | spoorthi   | 2001-09-02    | F      | cse    | A       | 2024 | darmastala |
| 106 | reena      | 2002-09-04    | F      | bds    | E       | 2024 | badyar     |
| 107 | rose       | 2003-08-09    | F      | eee    | F       | 2024 | manglore   |
| 108 | gagan      | 2001-09-21    | M      | ece    | B       | 2024 | vitla      |
| 109 | spoorthi K | 2003-09-02    | F      | cse    | A       | 2025 | darmastala |
| 110 | chandana   | 2003-05-29    | F      | cse    | A       | 2025 | Shirlalu   |
+-----+------------+---------------+--------+--------+---------+------+------------+
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 | gagan | 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';**

```
+-----+------------+---------------+--------+--------+---------+------+------------+
| id  | name       | date_of_birth | gender | branch | section | year | address    |
+-----+------------+---------------+--------+--------+---------+------+------------+
| 101 | Darshan    | 2002-10-15    | M      | cse    | A       | 2024 | Beltangady |
| 102 | Veeresh    | 2002-09-29    | M      | cse    | A       | 2024 | ujre       |
| 103 | bhuvan     | 2003-03-09    | M      | cse    | A       | 2024 | darmastala |
| 104 | ramesh     | 2001-09-26    | M      | cse    | A       | 2024 | vitla      |
| 105 | spoorthi   | 2001-09-02    | F      | cse    | A       | 2024 | darmastala |
| 109 | spoorthi K | 2003-09-02    | F      | cse    | A       | 2025 | darmastala |
| 110 | chandana   | 2003-05-29    | F      | cse    | A       | 2025 | Shirlalu   |
+-----+------------+---------------+--------+--------+---------+------+------------+
7 rows in set (0.00 sec)
```

e. Display girl students from the table.
mysql> select * from student where gender='F';
```
| 105 | spoorthi   | 2001-09-02    | F      | cse    | A       | 2024 | darmastala |
| 106 | reena      | 2002-09-04    | F      | bds    | E       | 2024 | badyar     |
| 107 | rose       | 2003-08-09    | F      | eee    | F       | 2024 | manglore   |
| 109 | spoorthi K | 2003-09-02    | F      | cse    | A       | 2025 | darmastala |
```

| 110 | chandana | 2003-05-29 | F | cse | A | 2025 | Shirlalu |
+-----+------------+---------------+--------+--------+---------+------+------------+ 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)