1. Create a database "college".

```
mysql> CREATE DATABASE college;
Query OK, 1 row affected (0.03 sec)
```

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

3. Insert 10 rows into the table.

```
mysql> INSERT INTO college.student (id, name, date_of_birth, gender, branch, section, year, address)

>> VALUES (d, 'Sunita', '1998-11-30', 'Female', 'Civil Engineering', '8', 1, 'Udupi');

@ VALUES (S, 'Vijay', '1999-66-20', 'Male', 'Computer Science', 'A', 3, 'Bangalore');

@ VALUES (S, 'Vijay', '1999-66-20', 'Male', 'Computer Science', 'A', 3, 'Bangalore');

@ VALUES (S, 'Vijay', '1999-66-20', 'Male', 'Computer Science', 'A', 3, 'Bangalore');

@ VALUES (S, 'Vijay', '1999-66-20', 'Male', 'Female', 'Electrical Engineering', 'B', 2, 'Mangalore');

@ VALUES (S, 'Vespias', '1996-96', 'Female', 'Felectrical Engineering', 'B', 2, 'Mangalore');

@ VALUES (S, 'Vespias', '1996-96', 'Male', 'Male', 'Machanical Engineering', 'B', 2, 'Mangalore');

@ VALUES (S, 'Nayae', '1, '1997-96'-18', 'Male', 'Machanical Engineering', 'A', 4, 'Ujire');

@ VALUES (S, 'Nayae', '1, '1997-96'-18', 'Male', 'Machanical Engineering', 'A', 4, 'Ujire');

@ VALUES (S, 'Nayae', '1, '1998-12-95', 'Female', 'Civil Engineering', 'B', 1, 'Udupi');

@ VALUES (S, 'Nayae', '1, '1998-12-95', 'Female', 'Civil Engineering', 'B', 1, 'Udupi');

@ VALUES (S, 'Nayae', '1, '1998-12-95', 'Heale', 'Computer Science', 'A', 3, 'Bangalore');

@ VALUES (S, 'Prashant', '1995-07-25', 'Male', 'Computer Science', 'A', 3, 'Bangalore');

@ VALUES (S, 'Prashant', '1995-07-25', 'Male', 'Computer Science', 'A', 3, 'Bangalore');

@ VALUES (S, 'Nayae', '1, '1996-10-10', 'Female', 'Electrical Engineering', 'B', 2, 'Mangalore');

@ VALUES (S, 'Nayae', '1, '1996-10-10', 'Female', 'Electrical Engineering', 'B', 2, 'Mangalore');

@ VALUES (S, 'Nayae', '1, '1996-10-10', 'Female', 'Electrical Engineering', 'B', 2, 'Mangalore');

@ VALUES (S, 'Nayae', '1, '1996-10-10', 'Female', 'Electrical Engineering', 'B', 2, 'Mangalore');

@ VALUES (S, 'Nayae', '1, '1996-10-10', 'Female', 'Electrical Engineering', 'B', 2, 'Mangalore');
```

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> use college;
Database changed
wysql: RERE* USER 'aadmin'#'localhost' IDENTIFIED BY 'aadmin#123';
Query OK, 0 rows affected (0.02 sec)

mysql> GRANT SELECT, CREATE, ALTER, INSERT, UPDATE, DELETE ON college.* TO 'admin'@'localhost';

Query OK, 0 rows affected (0.02 sec)
```

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

```
mysql> CREATE USER 'principal'@'localhost' IDENTIFIED BY 'principal@123';
Query OK, 0 rows affected (0.02 sec)
mysql>
mysql> GRANT SELECT, INSERT, UPDATE, DELETE ON college.* TO 'principal'@'localhost';
Query OK, 0 rows affected (0.01 sec)
```

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

```
mysql> CREATE USER 'faculty'@'localhost' IDENTIFIED BY 'faculty@123';
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> GRANT SELECT, UPDATE ON college.* TO 'faculty'@'localhost';
Query OK, 0 rows affected (0.01 sec)
```

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

```
mysql> CREATE USER student;
Query OK, 0 rows affected (0.01 sec)
mysql> GRANT SELECT ON college.* TO student;
Query OK, 0 rows affected (0.01 sec)
```

8. Login with the 'admin' user and add a new column phone number.

```
C:\Program Files\MySQL\MySQL Server 8.0\bin>mysql -u admin -p
Enter password: ********

Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 31
Server version: 8.0.36 MySQL Community Server - GPL

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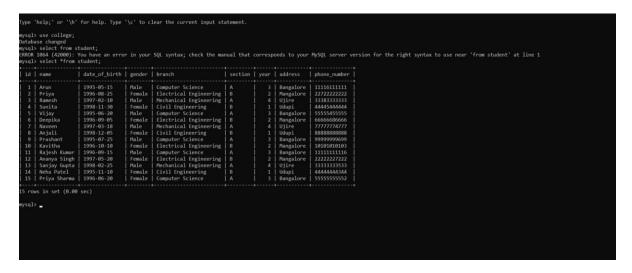
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use college;
Database changed
mysql> alter table student add column phone_number varchar(20);
Query OK, 0 rows affected (0.26 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

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

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

- 11. Login with the 'student' user and display the following outputs:
  - a. Display all the student data records.



b. Display only one student data record with any given phone number.



c. Display students from any one branch



d. Display students from any specific branch and specific section.



e. Display girl students from the table



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

```
mysql> REVOKE ALL PRIVILEGES ON *.* FROM 'admin'@'localhost';
Query OK, 0 rows affected (0.01 sec)
```

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

```
mysql> REVOKE INSERT ON college.* FROM 'principal'@'localhost';
Query OK, 0 rows affected (0.01 sec)
```

14. Revoke update permission from the user 'faculty'.

```
mysql> REVOKE UPDATE ON college.* FROM 'faculty'@'localhost';
Query OK, 0 rows affected (0.01 sec)
```

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

```
mysql> REVOKE ALL PRIVILEGES ON college.* FROM 'student';
Query OK, 0 rows affected (0.01 sec)
```