**ASSIGNMENT(12/04/2024)**  
1.Create a database “college”.  
->>create database college;  
->> show databases;  
+--------------------+

| Database |

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

| college |

| emp1 |

| emp10 |

| empdatabase |

| information\_schema |

| mysql |

| performance\_schema |

| studentdatabase |

| sys |

| xyz |

+--------------------+  
  
2. Create a table ‘student’ with columns (id, name, date of birth, gender,

branch, section, year, address) under the “college” database.  
  
->> create table students (id int,name varchar(20),date\_of\_birth varchar(10),gender varchar(10),branch varchar(10),section varchar(5),address varchar(30));  
->>desc students;  
  
---------------+-------------+------+-----+---------+-------+

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

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

| id | int | YES | | NULL | |

| name | varchar(20) | YES | | NULL | |

| date\_of\_birth | varchar(10) | YES | | NULL | |

| gender | varchar(10) | YES | | NULL | |

| branch | varchar(10) | YES | | NULL | |

| section | varchar(5) | YES | | NULL | |

| address | varchar(30) | YES | | NULL | |

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

3.Insert 10 rows into the table.  
->>insert into college.students (name, date\_of\_birth, gender, branch, section, address)values(1,'kishor', '15/05/2002', 'Male', 'Computer Science', 'A', 'Kundapur'),

(2,'Sushmitha', '20/08/1999', 'Female', 'Electrical Engineering', 'B', 'Moodbidre'),

(3,'Alcita', '10/12/1997', 'Female', 'Mechanical Engineering', 'C', 'Goa'),

(4,'Jeevan', '25/03/2000', 'Male', 'Civil Engineering', 'A', ' Maple '),

(5,'Shreya', '30/06/1998', 'Female', 'Chemical Engineering', 'B', 'Udupi'),

(6,'Michael', '05/09/1999', 'Male', 'Computer Science', 'C', 'Mumbai'),

(7,'Samantha ', '12/11/1997', 'Female', 'Electrical Engineering', 'A', 'Kerala'),

(8,'David , '18/02/2000', 'Male', 'Mechanical Engineering', 'B', 'Padubidre'),

(9,'Gauri', '22/07/1998', 'Female', 'Civil Engineering', 'C', 'Wayanad'),

(10,'Shodhan', '08/10/1999', 'Male', 'Chemical Engineering', 'A', 'Bangalore');  
  
->> select \*from students;

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

| id | name | date\_of\_birth | gender | branch | section | address |

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

| 1 | kishor | 15/05/2002 | Male | Computer Science | A | Kundapur |

| 2 | Sushmitha | 20/08/1999 | Female | Electrical Engineering | B | Moodbidre |

| 3 | Alcita | 10/12/1997 | Female | Mechanical Engineering | C | Goa |

| 4 | Jeevan | 25/03/2000 | Male | Civil Engineering | A | Maple |

| 5 | Shreya | 30/06/1998 | Female | Chemical Engineering | B | Udupi |

| 6 | Michael | 05/09/1999 | Male | Computer Science | C | Mumbai |

| 7 | Samantha | 12/11/1997 | Female | Electrical Engineering | A | Kerala |

| 8 | David | 18/02/2000 | Male | Mechanical Engineering | B | Padubidre |

| 9 | Gauri | 22/07/1998 | Female | Civil Engineering | C | Wayanad |

| 10 | Shodhan | 08/10/1999 | Male | Chemical Engineering | A | Bangalore |

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

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.  
  
->>create user admin identified by 'admin@1234';  
->>grant select,insert,delete,alter,update on students to admin;  
  
5. Create user username: ‘principal’ and password: ‘principal@123’ with select,

insert, update, and delete permissions.  
->> create user principal identified by 'principal@123';  
->> grant select,insert,delete,update on students to principal;  
  
6. Create user username: ‘faculty’ and password: ‘faculty@123’ with select,

and update permissions.  
->> create user faculty identified by 'faculty@123';  
->> grant select,update on students to faculty;  
  
7. Create user username: ‘student’ without a password and with select

permission only.  
->> create user student;  
->> grant select on students to student;  
  
8. Login with the ‘admin’ user and add a new column phone number.  
->>cd C:\Program Files\MySQL\MySQL Server 8.0\bin  
->>mysql -u admin -p  
->>use college  
->> alter table students add column phone\_number int;  
->>mysql> desc students;

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

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

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

| id | int | NO | PRI | NULL | |

| name | varchar(20) | YES | | NULL | |

| date\_of\_birth | varchar(30) | YES | | NULL | |

| gender | varchar(30) | YES | | NULL | |

| branch | varchar(50) | YES | | NULL | |

| section | varchar(5) | YES | | NULL | |

| address | varchar(30) | YES | | NULL | |

| phone\_number | int | YES | | NULL | |

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

8 rows in set (0.05 sec)  
  
9. Login with the ‘principal’ user and add 5 more new rows to the table with all

column values including phone numbers.  
  
->>cd C:\Program Files\MySQL\MySQL Server 8.0\bin

-->mysql -u principal -p  
->>INSERT INTO college.students (id, name, date\_of\_birth, gender, branch, section, address, phone\_number)values

(11, 'Akshay', '15/09/2001', 'Male', 'Computer Science', 'A', 'Mangalore', '1234567890'),

(12, 'Ananya', '10/10/2000', 'Female', 'Electronics Engineering', 'B', 'Manipal', '98765432'),

(13, 'Arun', '05/07/1999', 'Male', 'Mechanical Engineering', 'C', 'Hubli', '8765432109'),

(14, 'Aishwarya', '20/03/1998', 'Female', 'Civil Engineering', 'A', 'Belgaum', '5678901234'),

(15, 'Amit', '18/12/2002', 'Male', 'Chemical Engineering', 'B', 'Dharwad', '2345678901');  
->> select \*from students;

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

| id | name | date\_of\_birth | gender | branch | section | address | phone\_number |

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

| 1 | kishor | 15/05/2002 | Male | Computer Science | A | Kundapur | NULL |

| 2 | Sushmitha | 20/08/1999 | Female | Electrical Engineering | B | Moodbidre | NULL |

| 3 | Alcita | 10/12/1997 | Female | Mechanical Engineering | C | Goa | NULL |

| 4 | Jeevan | 25/03/2000 | Male | Civil Engineering | A | Maple | NULL |

| 5 | Shreya | 30/06/1998 | Female | Chemical Engineering | B | Udupi | NULL |

| 6 | Michael | 05/09/1999 | Male | Computer Science | C | Mumbai | NULL |

| 7 | Samantha | 12/11/1997 | Female | Electrical Engineering | A | Kerala | NULL |

| 8 | David | 18/02/2000 | Male | Mechanical Engineering | B | Padubidre | NULL |

| 9 | Gauri | 22/07/1998 | Female | Civil Engineering | C | Wayanad | NULL |

| 10 | Shodhan | 08/10/1999 | Male | Chemical Engineering | A | Bangalore | NULL |

| 11 | Akshay | 15/09/2001 | Male | Computer Science | A | Mangalore | 1234567890 |

| 12 | Ananya | 10/10/2000 | Female | Electronics Engineering | B | Manipal | 9876543210 |

| 13 | Arun | 05/07/1999 | Male | Mechanical Engineering | C | Hubli | 8765432109 |

| 14 | Aishwarya | 20/03/1998 | Female | Civil Engineering | A | Belgaum | 5678901234 |

| 15 | Amit | 18/12/2002 | Male | Chemical Engineering | B | Dharwad | 2345678901 |

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

10. Login with the ‘faculty’ user and update all the 10 students phone

numbers.  
->>cd C:\Program Files\MySQL\MySQL Server 8.0\bin  
->>mysql -u faculty -p

->>mysql> update college.students set phone\_number = 1234567890 where id = 1;

query ok, 1 row affected (0.06 sec)

rows matched: 1 changed: 1 warnings: 0

mysql> update college.students set phone\_number = 9876543210 where id = 2;

query ok, 1 row affected (0.01 sec)

rows matched: 1 changed: 1 warnings: 0

mysql> update college.students set phone\_number = 8765432109 where id = 3;

query ok, 1 row affected (0.01 sec)

rows matched: 1 changed: 1 warnings: 0

mysql> update college.students set phone\_number = 5678901234 where id = 4;

query ok, 1 row affected (0.01 sec)

rows matched: 1 changed: 1 warnings: 0

mysql> update college.students set phone\_number = 2345678901 where id = 5;

query ok, 1 row affected (0.01 sec)

rows matched: 1 changed: 1 warnings: 0

mysql> UPDATE college.students SET phone\_number = 3456789012 WHERE id = 6;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE college.students SET phone\_number = 4567890123 WHERE id = 7;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE college.students SET phone\_number = 5678901234 WHERE id = 8;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE college.students SET phone\_number = 6789012345 WHERE id = 9;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE college.students SET phone\_number = 7890123456 WHERE id = 10;  
->>mysql> select \*from students;

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

| id | name | date\_of\_birth | gender | branch | section | address | phone\_number |

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

| 1 | kishor | 15/05/2002 | Male | Computer Science | A | Kundapur | 1234567890 |

| 2 | Sushmitha | 20/08/1999 | Female | Electrical Engineering | B | Moodbidre | 9876543210 |

| 3 | Alcita | 10/12/1997 | Female | Mechanical Engineering | C | Goa | 8765432109 |

| 4 | Jeevan | 25/03/2000 | Male | Civil Engineering | A | Maple | 5678901234 |

| 5 | Shreya | 30/06/1998 | Female | Chemical Engineering | B | Udupi | 2345678901 |

| 6 | Michael | 05/09/1999 | Male | Computer Science | C | Mumbai | 3456789012 |

| 7 | Samantha | 12/11/1997 | Female | Electrical Engineering | A | Kerala | 4567890123 |

| 8 | David | 18/02/2000 | Male | Mechanical Engineering | B | Padubidre | 5678901234 |

| 9 | Gauri | 22/07/1998 | Female | Civil Engineering | C | Wayanad | 6789012345 |

| 10 | Shodhan | 08/10/1999 | Male | Chemical Engineering | A | Bangalore | NULL |

| 11 | Akshay | 15/09/2001 | Male | Computer Science | A | Mangalore | 1234567890 |

| 12 | Ananya | 10/10/2000 | Female | Electronics Engineering | B | Manipal | 9876543210 |

| 13 | Arun | 05/07/1999 | Male | Mechanical Engineering | C | Hubli | 8765432109 |

| 14 | Aishwarya | 20/03/1998 | Female | Civil Engineering | A | Belgaum | 5678901234 |

| 15 | Amit | 18/12/2002 | Male | Chemical Engineering | B | Dharwad | 2345678901 |

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

15 rows in set (0.00 sec)  
  
11.(answer)  
->>cd C:\Program Files\MySQL\MySQL Server 8.0\bin

>>msql -u student

a>>select \*from students;

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

| id | name | date\_of\_birth | gender | branch | section | address | phone\_number |

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

| 1 | kishor | 15/05/2002 | Male | Computer Science | A | Kundapur | 1234567890 |

| 2 | Sushmitha | 20/08/1999 | Female | Electrical Engineering | B | Moodbidre | 9876543210 |

| 3 | Alcita | 10/12/1997 | Female | Mechanical Engineering | C | Goa | 8765432109 |

| 4 | Jeevan | 25/03/2000 | Male | Civil Engineering | A | Maple | 5678901234 |

| 5 | Shreya | 30/06/1998 | Female | Chemical Engineering | B | Udupi | 2345678901 |

| 6 | Michael | 05/09/1999 | Male | Computer Science | C | Mumbai | 3456789012 |

| 7 | Samantha | 12/11/1997 | Female | Electrical Engineering | A | Kerala | 4567890123 |

| 8 | David | 18/02/2000 | Male | Mechanical Engineering | B | Padubidre | 5678901234 |

| 9 | Gauri | 22/07/1998 | Female | Civil Engineering | C | Wayanad | 6789012345 |

| 10 | Shodhan | 08/10/1999 | Male | Chemical Engineering | A | Bangalore | NULL |

| 11 | Akshay | 15/09/2001 | Male | Computer Science | A | Mangalore | 1234567890 |

| 12 | Ananya | 10/10/2000 | Female | Electronics Engineering | B | Manipal | 9876543210 |

| 13 | Arun | 05/07/1999 | Male | Mechanical Engineering | C | Hubli | 8765432109 |

| 14 | Aishwarya | 20/03/1998 | Female | Civil Engineering | A | Belgaum | 5678901234 |

| 15 | Amit | 18/12/2002 | Male | Chemical Engineering | B | Dharwad | 2345678901 |

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

15 rows in set (0.00 sec)

**B)mysql>select \* from college.students where phone\_number = 2345678901;**

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

| id | name | date\_of\_birth | gender | branch | section | address | phone\_number |

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

| 5 | Shreya | 30/06/1998 | Female | Chemical Engineering | B | Udupi | 2345678901   
  
**c) select \* from college.students where branch = 'Computer Science';**

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

| id | name | date\_of\_birth | gender | branch | section | address | phone\_number |

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

| 1 | kishor | 15/05/2002 | Male | Computer Science | A | Kundapur | 1234567890 |

| 6 | Michael | 05/09/1999 | Male | Computer Science | C | Mumbai | 3456789012 |

| 11 | Akshay | 15/09/2001 | Male | Computer Science | A | Mangalore | 1234567890 |

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

3 rows in set (0.00 sec)  
  
e) **select \* from college.students where gender='female';**

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

| id | name | date\_of\_birth | gender | branch | section | address | phone\_number |

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

| 2 | Sushmitha | 20/08/1999 | Female | Electrical Engineering | B | Moodbidre | 9876543210 |

| 3 | Alcita | 10/12/1997 | Female | Mechanical Engineering | C | Goa | 8765432109 |

| 5 | Shreya | 30/06/1998 | Female | Chemical Engineering | B | Udupi | 2345678901 |

| 7 | Samantha | 12/11/1997 | Female | Electrical Engineering | A | Kerala | 4567890123 |

| 9 | Gauri | 22/07/1998 | Female | Civil Engineering | C | Wayanad | 6789012345 |

| 12 | Ananya | 10/10/2000 | Female | Electronics Engineering | B | Manipal | 9876543210 |

| 14 | Aishwarya | 20/03/1998 | Female | Civil Engineering | A | Belgaum | 5678901234 |

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

7 rows in set (0.00 sec)  
  
**d) select \* from college.students where branch = 'Computer Science' and section ='a';**

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

| id | name | date\_of\_birth | gender | branch | section | address | phone\_number |

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

| 1 | kishor | 15/05/2002 | Male | Computer Science | A | Kundapur | 1234567890 |

| 11 | Akshay | 15/09/2001 | Male | Computer Science | A | Mangalore | 1234567890 |

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

2 rows in set (0.00 sec)

**12)->>revoke all privileges on students from admin;**

**Query OK, 0 rows affected (0.04 sec)  
  
13)->> revoke insert on students from principal;**

**Query OK, 0 rows affected (0.01 sec)  
  
14)mysql> revoke update on students from faculty;**

**Query OK, 0 rows affected (0.07 sec)**

**15)revoke all privileges on students from student;**

**Query OK, 0 rows affected (0.03 sec)**