

Date: 12/04/2024

Assignment

1. Create a database "college".

```
mysql>create database college;  
Query OK, 1 row affected (0.01 sec)  
mysql> use college;  
Database changed
```

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

```
mysql> Create table student(id int,name varchar(10),Dob date,gender varchar(10),branch  
varchar(10),section varchar(10),year int,address varchar(10));
```

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

```
mysql> desc student;
```

Field	Type	Null	Key	Default	Extra
-------	------	------	-----	---------	-------

id	int	YES		NULL	
----	-----	-----	--	------	--

name	varchar(10)	YES		NULL	
------	-------------	-----	--	------	--

Dob	date	YES		NULL	
-----	------	-----	--	------	--

gender	varchar(10)	YES		NULL	
--------	-------------	-----	--	------	--

branch	varchar(10)	YES		NULL	
--------	-------------	-----	--	------	--

section	varchar(10)	YES		NULL	
---------	-------------	-----	--	------	--

year	int	YES		NULL	
------	-----	-----	--	------	--

address	varchar(10)	YES		NULL	
---------	-------------	-----	--	------	--

3. Insert 10 rows into the table.

```
mysql> insert into student (id,name,doB,gender,branch,section,year,address)  
values(01,'Navya','2002-03-29','F','CSE','A',2024,'Shimoga');
```

```
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into student (id,name,doB,gender,branch,section,year,address)  
values(02,'Arya','1988-12-22','M','ISE','A',2022,'Mysure');
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into student (id,name,doB,gender,branch,section,year,address)
values(03,'Shreyas','2000-11-12','M','CSE','A',2023,'Gadag');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into student (id,name,doB,gender,branch,section,year,address)
values(04,'Shravya','20006-01-04','F','ECE','C',2022,'Shimoga');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into student (id,name,doB,gender,branch,section,year,address)
values(05,'Anvith','2022-12-10','M','Mech','D',2024,'Durga');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into student (id,name,doB,gender,branch,section,year,address)
values(06,'Adharsh','2021-6-1','F','CSE','D',2,'shivamoga');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into student (id,name,doB,gender,branch,section,year,address)
values(07,'Ramya','1992-6-1','F','ISE','A',3,'Mangalore');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into student (id,name,doB,gender,branch,section,year,address)
values(08,'Srushti','1994-6-1','F','CSE','A',3,'Mysore');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into student (id,name,doB,gender,branch,section,year,address)
values(09,'Swathii','1996-3-5','F','CSE','B',2,'Maravanthe');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into student (id,name,doB,gender,branch,section,year,address)
values(10,'Sushanth','1998-3-5','M','CSE','B',5,'Padil');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> select * from student;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| id | name | dOB | gender | branch | section | year | address |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 01 | Navya | 2002-03-29 | F | CSE | A | 2024 | Shimoga |
| 02 | Arya | 1988-12-22 | M | ISE | A | 2022 | Mysure |
| 03 | Shreyas | 2000-11-12 | M | CSE | A | 2023 | Gadag |
| 04 | Shravya | 2006-01-04 | F | ECE | C | 2022 | Shimoga |
| 05 | Anvith | 2022-12-10 | M | Mech | D | 2024 | Durga |
| 06 | Adharsh | 2021-06-01 | F | CSE | D | 2 | shivamoga |
| 07 | ananya | 1992-06-01 | F | ISE | A | 3 | Mangalore |
| 08 | Swathi | 1994-06-01 | F | CSE | A | 3 | Mysore |
| 09 | Swathi | 1996-03-05 | F | CSE | B | 2 | Maravanthe |
| 10 | Sushanth | 1998-03-05 | M | CSE | B | 5 | Padil |
```

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

10 rows in set (0.01 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'@'localhost' identified by 'admin@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 identified by 'principal@123';
```

Query OK, 0 rows affected (0.02 sec)

```
mysql> grant select,
```

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

Query OK, 0 rows affected (0.01 sec)

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

```
create user faculty identified by 'faculty@123';
```

Query OK, 0 rows affected (0.03 sec)

```
mysql> grant select,update on student to faculty;
```

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 student 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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```

```
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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 'student' user and display the following outputs:

a. Display all the student data records.

```
+-----+-----+-----+-----+-----+-----+-----+
| id | name | dOB | gender | branch | section | year | address |
+-----+-----+-----+-----+-----+-----+-----+
| 01 | Navya | 2002-03-29 | F | CSE | A | 2024 | Shimoga |
| 02 | Arya | 1988-12-22 | M | ISE | A | 2022 | Mysure |
| 03 | Shreyas | 2000-11-12 | M | CSE | A | 2023 | Gadag |
| 04 | Shravya | 2006-01-04 | F | ECE | C | 2022 | Shimoga |
| 05 | Anvith | 2022-12-10 | M | Mech | D | 2024 | Durga |
| 06 | Adharsh | 2021-06-01 | F | CSE | D | 2 | shivamoga |
| 07 | ananya | 1992-06-01 | F | ISE | A | 3 | Mangalore |
| 08 | Swathi | 1994-06-01 | F | CSE | A | 3 | Mysore |
| 09 | Swathi | 1996-03-05 | F | CSE | B | 2 | Maravanthe |
| 10 | Sushanth | 1998-03-05 | M | CSE | B | 5 | Padil |
+-----+-----+-----+-----+-----+-----+-----+
```

```
10 rows in set (0.01 sec)
```

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

```
mysql> select * from student where phone_no='9012348909';
```

```
+-----+-----+-----+-----+-----+-----+-----+
| id | name | dOB | gender | branch | section | year | address |
phone_no |
+-----+-----+-----+-----+-----+-----+-----+
| 01 | Navya | 2002-03-29 | F | CSE | A | 2024 | Shimoga |
9012348909 |
```

c. Display students from any one branch

```
mysql> select * from student where branch='CSE';
```

id	name	dOB	gender	branch	section	year	address
01	Navya	2002-03-29	F	CSE	A	2024	Shimoga
03	Shreyas	2000-11-12	M	CSE	A	2023	Gadag
06	Adharsh	2021-06-01	F	CSE	D	2	shivamoga
08	Swathi	1994-06-01	F	CSE	A	3	Mysore
09	Swathi	1996-03-05	F	CSE	B	2	Maravanthe
10	Sushanth	1998-03-05	M	CSE	B	5	Padil

6 rows in set (0.01 sec)

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

```
select * from student where branch='ISE' and section='A';
```

id	name	dOB	gender	branch	section	year	address
02	Arya	1998-11-20	M	ISE	A	2022	Mysure
07	ananya	1988-12-2	F	ISE	A	2022	Mangalore

2 rows in set (0.00 sec)

e. Display girl students from the table.

```
mysql> select * from student where gender='F';
```

id	name	dOB	gender	branch	section	year	address
01	Navya	2002-02-29	F	CSE	B	2023	Ujire
04	Shravya	2006-01-04	F	ECE	C	2022	Shimoga
06	Adharsh	2021-06-01	F	CSE	D	2	shivamoga
07	ananya	1992-06-01	F	ISE	A	3	Mangalore
08	Swathi	1994-06-01	F	CSE	A	3	Mysore

	09		Swathi		1996-03-05		F		CSE		B		2		Maravanthe	
--	----	--	--------	--	------------	--	---	--	-----	--	---	--	---	--	------------	--

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

6 rows in set (0.00 sec)