Assignment 2 SQL Querise

mysql> show databse;

mysql> show databases;

```
+--------------------+
| Database           |
+--------------------+
| anuj               |
| information_schema |
| mysql              |
| performance_schema |
| sakila             |
| sk                 |
| sys                |
| vrighu             |
| world              |
+--------------------+
9 rows in set (0.00 sec)
```

mysql> create database tushar;

Query OK, 1 row affected (0.07 sec)

mysql> show databases;

```
+--------------------+
| Database           |
```

```
+--------------------+
| anuj               |
| information_schema |
| mysql              |
| performance_schema |
| sakila             |
| sk                 |
| sys                |
| tushar             |
| vrighu             |
| world              |
+--------------------+
10 rows in set (0.00 sec)
```

mysql> use tushar;

Database changed

mysql> create table student(id integer(10),Name varchar(15),dob date,doj date,fee integer(15),gender varchar(10));

Query OK, 0 rows affected, 2 warnings (0.12 sec)

mysql> desc student;

```
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| id     | int         | YES  |     | NULL    |       |
| Name   | varchar(15) | YES  |     | NULL    |       |
```

| dob | date | YES | | NULL | |

| doj | date | YES | | NULL | |

| fee | int | YES | | NULL | |

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

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

6 rows in set (0.00 sec)

mysql> insert into student(id,Name,dob,doj,fee,gender) values (1,'aa','2002-5-5','2020-10-10',2000,'F');

Query OK, 1 row affected (0.03 sec)

mysql> insert into student(id,Name,dob,doj,fee,gender) values (2,'bb','2002-5-5','2020-10-10',2000,'F');

Query OK, 1 row affected (0.03 sec)

mysql> insert into student(id,Name,dob,doj,fee,gender) values (3,'cc','2004-6-5','2021-11-10',2000,'m');

Query OK, 1 row affected (0.03 sec)

mysql> insert into student(id,Name,dob,doj,fee,gender) values (4,'DD','2004-6-8','2021-11-8',5000,'m');

Query OK, 1 row affected (0.04 sec)

mysql> insert into student(id,Name,dob,doj,fee,gender) values (5,'EE','2004-8-9','2021-5-4',6000,'F');

Query OK, 1 row affected (0.03 sec)

mysql> select *from student;;

```
+------+------+------------+------------+------+--------+
| id   | Name | dob        | doj        | fee  | gender |
+------+------+------------+------------+------+--------+
|    1 | aa   | 2002-05-05 | 2020-10-10 | 2000 | F      |
|    2 | bb   | 2002-05-05 | 2020-10-10 | 2000 | F      |
|    3 | cc   | 2004-06-05 | 2021-11-10 | 2000 | m      |
|    4 | DD   | 2004-06-08 | 2021-11-08 | 5000 | m      |
|    5 | EE   | 2004-08-09 | 2021-05-04 | 6000 | F      |
+------+------+------------+------------+------+--------+
5 rows in set (0.00 sec)
```

mysql> create view s1 as select *from student;

Query OK, 0 rows affected (0.03 sec)

mysql> select *from s1;

```
+------+------+------------+------------+------+--------+
| id   | Name | dob        | doj        | fee  | gender |
+------+------+------------+------------+------+--------+
|    1 | aa   | 2002-05-05 | 2020-10-10 | 2000 | F      |
|    2 | bb   | 2002-05-05 | 2020-10-10 | 2000 | F      |
|    3 | cc   | 2004-06-05 | 2021-11-10 | 2000 | m      |
|    4 | DD   | 2004-06-08 | 2021-11-08 | 5000 | m      |
|    5 | EE   | 2004-08-09 | 2021-05-04 | 6000 | F      |
+------+------+------------+------------+------+--------+
5 rows in set (0.00 sec)
```

```
mysql> update s1 set gender='m' where id=1;

Query OK, 1 row affected (0.04 sec)

Rows matched: 1  Changed: 1  Warnings: 0


mysql> select *from s1;

+------+------+------------+------------+------+--------+
| id   | Name | dob        | doj        | fee  | gender |
+------+------+------------+------------+------+--------+
|    1 | aa   | 2002-05-05 | 2020-10-10 | 2000 | m      |
|    2 | bb   | 2002-05-05 | 2020-10-10 | 2000 | F      |
|    3 | cc   | 2004-06-05 | 2021-11-10 | 2000 | m      |
|    4 | DD   | 2004-06-08 | 2021-11-08 | 5000 | m      |
|    5 | EE   | 2004-08-09 | 2021-05-04 | 6000 | F      |
+------+------+------------+------------+------+--------+
5 rows in set (0.00 sec)


mysql> create view s2 as select *from student;

Query OK, 0 rows affected (0.03 sec)


mysql> drop view s2;

Query OK, 0 rows affected (0.05 sec)


mysql> create index student1 on student(id);

Query OK, 0 rows affected (0.27 sec)

Records: 0  Duplicates: 0  Warnings: 0
```

mysql> create index student2 on student(id,name);

Query OK, 0 rows affected (0.11 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> create index student2 on student(name);

ERROR 1061 (42000): Duplicate key name 'student2'

mysql> show index from student;

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment	Visible	Expression
student	1	student1	1	id	A	5	NULL	NULL	YES	BTREE			YES	NULL
student	1	student2	1	id	A	5	NULL	NULL	YES	BTREE			YES	NULL
student	1	student2	2	Name	A	5	NULL	NULL	YES	BTREE			YES	NULL

3 rows in set (0.08 sec)

mysql> drop index student2 on student;

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> show index from student;

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

```
+------------+----------+--------------+----------+-------------+
| Table   | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment | Visible | Expression |
+---------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+--------+------+------------+----------+--------------+----------+-------------+
| student |        1 | student1 |          1 | id       | A       |          5 |   NULL |   NULL | YES | BTREE    |       | YES   | NULL   |
+---------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+--------+------+------------+----------+--------------+----------+-------------+
```
1 row in set (0.00 sec)

mysql> create table student_info as select *from student;

Query OK, 5 rows affected (0.27 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> select *from student_info;
```
+------+------+------------+------------+------+--------+
| id   | Name | dob      | doj      | fee | gender |
+------+------+------------+------------+------+--------+
|   1 | aa  | 2002-05-05 | 2020-10-10 | 2000 | m     |
|   2 | bb  | 2002-05-05 | 2020-10-10 | 2000 | F     |
|   3 | cc  | 2004-06-05 | 2021-11-10 | 2000 | m     |
|   4 | DD  | 2004-06-08 | 2021-11-08 | 5000 | m     |
|   5 | EE  | 2004-08-09 | 2021-05-04 | 6000 | F     |
+------+------+------------+------------+------+--------+
```
5 rows in set (0.00 sec)

```
mysql> create table student_info1 as select id,name,gender from student;

Query OK, 5 rows affected (0.20 sec)

Records: 5  Duplicates: 0  Warnings: 0


mysql> select *from student_info1;

+------+------+--------+
| id   | name | gender |
+------+------+--------+
|   1 | aa   | m      |
|   2 | bb   | F      |
|   3 | cc   | m      |
|   4 | DD   | m      |
|   5 | EE   | F      |
+------+------+--------+
5 rows in set (0.00 sec)


mysql> create table student_info2 as select *from student where id>3;

Query OK, 2 rows affected (0.22 sec)

Records: 2  Duplicates: 0  Warnings: 0


mysql> select *from student_info2;

+------+------+------------+------------+------+--------+
| id   | Name | dob        | doj        | fee  | gender |
+------+------+------------+------------+------+--------+
|   4 | DD   | 2004-06-08 | 2021-11-08 | 5000 | m      |
|   5 | EE   | 2004-08-09 | 2021-05-04 | 6000 | F      |
```

```
+------+------+-----------+------------+------+-------+
```

2 rows in set (0.00 sec)

mysql> create table student_info3 as select *from student where 1=2;

Query OK, 0 rows affected (0.13 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select *from student_info3;

Empty set (0.00 sec)

mysql> desc student_info3;

```
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| id     | int         | YES  |     | NULL    |       |
| Name   | varchar(15) | YES  |     | NULL    |       |
| dob    | date        | YES  |     | NULL    |       |
| doj    | date        | YES  |     | NULL    |       |
| fee    | int         | YES  |     | NULL    |       |
| gender | varchar(10) | YES  |     | NULL    |       |
+--------+-------------+------+-----+---------+-------+
```

6 rows in set (0.00 sec)

mysql> alter table student add dep varchar(10);

Query OK, 0 rows affected (0.08 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select *from student;

```
+------+------+------------+------------+------+--------+------+
| id   | Name | dob        | doj        | fee  | gender | dep  |
+------+------+------------+------------+------+--------+------+
|    1 | aa   | 2002-05-05 | 2020-10-10 | 2000 | m      | NULL |
|    2 | bb   | 2002-05-05 | 2020-10-10 | 2000 | F      | NULL |
|    3 | cc   | 2004-06-05 | 2021-11-10 | 2000 | m      | NULL |
|    4 | DD   | 2004-06-08 | 2021-11-08 | 5000 | m      | NULL |
|    5 | EE   | 2004-08-09 | 2021-05-04 | 6000 | F      | NULL |
+------+------+------------+------------+------+--------+------+
```

5 rows in set (0.00 sec)

mysql> alter table student drop column dep;

Query OK, 0 rows affected (0.07 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select *from student;

```
+------+------+------------+------------+------+--------+
| id   | Name | dob        | doj        | fee  | gender |
+------+------+------------+------------+------+--------+
|    1 | aa   | 2002-05-05 | 2020-10-10 | 2000 | m      |
|    2 | bb   | 2002-05-05 | 2020-10-10 | 2000 | F      |
|    3 | cc   | 2004-06-05 | 2021-11-10 | 2000 | m      |
|    4 | DD   | 2004-06-08 | 2021-11-08 | 5000 | m      |
|    5 | EE   | 2004-08-09 | 2021-05-04 | 6000 | F      |
```

```
+------+------+-----------+------------+------+-------+
```

5 rows in set (0.00 sec)

mysql> desc student;

```
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| id     | int         | YES  | MUL | NULL    |       |
| Name   | varchar(15) | YES  |     | NULL    |       |
| dob    | date        | YES  |     | NULL    |       |
| doj    | date        | YES  |     | NULL    |       |
| fee    | int         | YES  |     | NULL    |       |
| gender | varchar(10) | YES  |     | NULL    |       |
+--------+-------------+------+-----+---------+-------+
```

6 rows in set (0.00 sec)

mysql> alter table student modify column id varchar(4);

Query OK, 5 rows affected (0.23 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> desc student;

```
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| id     | varchar(4)  | YES  | MUL | NULL    |       |
| Name   | varchar(15) | YES  |     | NULL    |       |
```

11

```
| dob    | date        | YES |     | NULL    |      |

| doj    | date        | YES |     | NULL    |      |

| fee    | int         | YES |     | NULL    |      |

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

+--------+-------------+------+-----+---------+-------+
```

6 rows in set (0.00 sec)

mysql> rename table student to compstudent;

Query OK, 0 rows affected (0.07 sec)

mysql> select *from compstudent;

```
+------+------+------------+------------+------+--------+

| id   | Name | dob        | doj        | fee  | gender |

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

| 1    | aa   | 2002-05-05 | 2020-10-10 | 2000 | m      |

| 2    | bb   | 2002-05-05 | 2020-10-10 | 2000 | F      |

| 3    | cc   | 2004-06-05 | 2021-11-10 | 2000 | m      |

| 4    | DD   | 2004-06-08 | 2021-11-08 | 5000 | m      |

| 5    | EE   | 2004-08-09 | 2021-05-04 | 6000 | F      |

+------+------+------------+------------+------+--------+
```

5 rows in set (0.00 sec)

mysql> drop table student_info3;

Query OK, 0 rows affected (0.09 sec)

mysql> select *from student_info3;

ERROR 1146 (42S02): Table 'tushar.student_info3' doesn't exist

mysql>