QUESTION NO 08 [CHEATS DBMS]

Q.8   Design College database with three entities
Student(rollno,sname,address,mobileno,branch,emailadd)
teacher(id,name,sub_taught,qualification,designation,salary)
Placements(rollno,branch,placedstudent_name,company_name,package_offered)

a) create nonupdatable view v2 on table student,Placements with fetching common value
with specific rollno
b) create multiple views on above table
c) Delete view v1

ANSWER :-

[sudo] password for admin1:
root@admin1-OptiPlex-Tower-7010:/home/admin1# sudo mysql -u root -p;
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.36-0ubuntu0.22.04.1 (Ubuntu)

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owners.

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

mysql> show databases;
+--------------------+
| Database |
+--------------------+
| cheat5 |
| information_schema |
| mysql |
| performance_schema |
| sys |
+--------------------+
5 rows in set (0.00 sec)

```
mysql> create database college;
Query OK, 1 row affected (0.07 sec)

mysql> use college;
Database changed
mysql> create table student(rollno int primary key,sname varchar(20) not null,address
    -> varchar(255),mobileno long not null,branch long not null,emailadd varchar(255),marks int);
Query OK, 0 rows affected (0.11 sec)

mysql> desc student;
+----------+--------------+------+-----+---------+-------+
| Field    | Type         | Null | Key | Default | Extra |
+----------+--------------+------+-----+---------+-------+
| rollno   | int          | NO   | PRI | NULL    |       |
| sname    | varchar(20)  | NO   |     | NULL    |       |
| address  | varchar(255) | YES  |     | NULL    |       |
| mobileno | mediumtext   | NO   |     | NULL    |       |
| branch   | mediumtext   | NO   |     | NULL    |       |
| emailadd | varchar(255) | YES  |     | NULL    |       |
| marks    | int          | YES  |     | NULL    |       |
+----------+--------------+------+-----+---------+-------+
7 rows in set (0.00 sec)

mysql> insert into student
    -> values(03,"Meghraj","shardanagar",9405060504,"IT","meghrajbhosale@gmail.com",99);
Query OK, 1 row affected (0.06 sec)

mysql> insert into student
    -> values(01,"ismail","tambenagar",9405456897,"IT","ismailsayyed@gmail.com",97);
Query OK, 1 row affected (0.07 sec)

mysql> select * from student;
+--------+---------+-------------+------------+--------+--------------------------+-------+
| rollno | sname   | address     | mobileno   | branch | emailadd                 | marks |
+--------+---------+-------------+------------+--------+--------------------------+-------+
|      1 | ismail  | tambenagar  | 9405456897 | IT     | ismailsayyed@gmail.com   |    97 |
|      3 | Meghraj | shardanagar | 9405060504 | IT     | meghrajbhosale@gmail.com |    99 |
+--------+---------+-------------+------------+--------+--------------------------+-------+
2 rows in set (0.01 sec)

mysql> create table Teacher(id int primary key,name varchar(20) not null,sub_tought long,qualification
    -> long,designation long not null,salary int);
Query OK, 0 rows affected (0.04 sec)

mysql> insert into Teacher values(2,"panchar sir","DSA AND CG","ME","PROFESSOR","80000");
Query OK, 1 row affected (0.02 sec)

mysql> insert into Teacher values(8,"salve sir","LDCO","ME","PROFESSOR","75000");
Query OK, 1 row affected (0.07 sec)
```

```
mysql> SELECT * FROM Teacher;
+----+-------------+-------------+---------------+-------------+--------+
| id | name        | sub_tought  | qualification | designation | salary |
+----+-------------+-------------+---------------+-------------+--------+
|  2 | panchar sir | DSA AND CG  | ME            | PROFESSOR   | 80000  |
|  8 | salve sir   | LDCO        | ME            | PROFESSOR   | 75000  |
+----+-------------+-------------+---------------+-------------+--------+
2 rows in set (0.00 sec)

mysql> create table placement(rollno int,branch long,placedstudent_name long,company_name
    -> varchar(50),package_offered int);
Query OK, 0 rows affected (0.04 sec)

mysql> drop table placement;
Query OK, 0 rows affected (0.03 sec)

mysql> create table placement(rollno int,branch long,placedstudent_name long,company_name
    -> varchar(50),package_offered int,CONSTRAINT FK_STUDENT FOREIGN KEY (rollno)
    -> REFERENCES student(rollno));
Query OK, 0 rows affected (0.10 sec)

mysql> insert into placement values(3,"IT","MEGHRAJ","TCS",50000);
Query OK, 1 row affected (0.06 sec)

mysql> SELECT * FROM placement;
+--------+--------+--------------------+--------------+-----------------+
| rollno | branch | placedstudent_name | company_name | package_offered |
+--------+--------+--------------------+--------------+-----------------+
|     3  | IT     | MEGHRAJ            | TCS          |         50000   |
+--------+--------+--------------------+--------------+-----------------+
1 row in set (0.00 sec)

mysql> CREATE VIEW v2 AS SELECT s.rollno, s.sname, s.address, s.mobileno, s.branch, s.emailadd,
p.placedstudent_name, p.company_name, p.package_offered FROM student s JOIN placement p ON
s.rollno = p.rollno;
Query OK, 0 rows affected (0.01 sec)

mysql> select * from v2;
+--------+---------+-------------+------------+--------+------------------------+--------------------+--------------+-----------------+
| rollno | sname   | address     | mobileno   | branch | emailadd               | placedstudent_name | company_name | package_offered |
+--------+---------+-------------+------------+--------+------------------------+--------------------+--------------+-----------------+
|     3  | Meghraj | shardanagar | 9405060504 | IT     | meghrajbhosale@gmail.com | MEGHRAJ          | TCS          |         50000   |
+--------+---------+-------------+------------+--------+------------------------+--------------------+--------------+-----------------+
```

1 row in set (0.00 sec)

mysql> create view student_info as
    -> select rollno,sname,branch,marks
    -> from student;
Query OK, 0 rows affected (0.01 sec)

mysql> select * from student_info;
+--------+---------+--------+-------+
| rollno | sname | branch | marks |
+--------+---------+--------+-------+
| 1 | ismail | IT | 97 |
| 3 | Meghraj | IT | 99 |
+--------+---------+--------+-------+
2 rows in set (0.00 sec)
mysql> create view teacher_info as select name,sub_tought,qualification from Teacher;
Query OK, 0 rows affected (0.07 sec)

mysql> select * from teacher_info;
+-------------+------------+---------------+
| name | sub_tought | qualification |
+-------------+------------+---------------+
| panchar sir | DSA AND CG | ME |
| salve sir | LDCO | ME |
+-------------+------------+---------------+
2 rows in set (0.00 sec)

mysql> create view placement_info as
    -> select branch,placedstudent_name,package_offered
    -> from placement;
Query OK, 0 rows affected (0.02 sec)

mysql> select * from placement_info;
+--------+--------------------+-----------------+
| branch | placedstudent_name | package_offered |
+--------+--------------------+-----------------+
| IT | MEGHRAJ | 50000 |
+--------+--------------------+-----------------+
1 row in set (0.01 sec)

drop view if exists v1;
Query OK, 0 rows affected, 1 warning (0.00 sec)

mysql> drop view placement_info;
Query OK, 0 rows affected (0.02 sec)