QUESTION NO 01 [CHEATS OF DBMS]

Q.1 Design College database with three entities
student(rollno,sname,address,mobileno,branch,emailadd,Marks)
Teacher(id,name,sub_taught,Qualification,Designation,Salary)
Placements(rollno,branch,placedstudent_name,company_name,package_offered)

Design DB using DDL Statements which demonstrates the use of SQL Objects such as Table,View,Different constraints(check constraint,NULL,Not Null etc)

ANSWER :---

mysql> show databases;
```
+--------------------+
| Database           |
+--------------------+
| Ass_views          |
| Pravin             |
| information_schema |
| joint              |
| library_model      |
| mysql              |
| operators          |
| performance_schema |
| student            |
| sys                |
+--------------------+
```
10 rows in set (0.00 sec)

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

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 (0.10 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 (0.01 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 (0.00 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 (0.03 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 (0.10 sec)

mysql> drop table placement;
Query OK, 0 rows affected (0.09 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 (0.01 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> ALTER TABLE student ADD CONSTRAINT CHK_Marks CHECK (Marks >= 0 AND Marks <= 100);
Query OK, 2 rows affected (0.09 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> select * from table;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'table' at line 1
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 (0.00 sec)

ERROR:
No query specified

mysql> create view topstudent as
    -> select * from student where marks>98;
Query OK, 0 rows affected (0.07 sec)

mysql> select * from topstudent;
+--------+---------+-------------+------------+--------+-------------------------+-------+
| rollno | sname | address | mobileno | branch | emailadd | marks |
+--------+---------+-------------+------------+--------+-------------------------+-------+
| 3 | Meghraj | shardanagar | 9405060504 | IT | meghrajbhosale@gmail.com | 99 |
+--------+---------+-------------+------------+--------+-------------------------+-------+
1 row in set (0.00 sec)

mysql>