Q.17 Design College database with three entities

student(rollno,sname,address,mobileno,branch,emailadd),

stud_audit(rollno,sname,address,mobileeno,branch,emailadd)

a)create PL/SQL row level trigger before delete on student table

ANSWER :-

mysql> select * from Students;

  -> $$

```
+--------+---------+-------------+------------+--------+-------------------+
| rollno | sname   | addr        | mno        | branch | email             |
+--------+---------+-------------+------------+--------+-------------------+
|     1  | ismail  | tambenagar  | 7894561230 | IT     | ismail@gmail.com  |
|     3  | meghraj | shardanagar | 7894561221 | IT     | meghraj@gmail.com |
|     1  | ismail  | tambenagar  | 7894561230 | IT     | ismail@gmail.com  |
|     3  | mwghraj | shardanagar | 9876543210 | IT     | meghraj@gmail.com |
+--------+---------+-------------+------------+--------+-------------------+
```

4 rows in set (0.00 sec)

mysql> select * from student_history;

  -> $$

```
+--------+---------+-------------+------------+--------+--------------+
| rollno | sname   | addr        | mno        | branch | leaving_date |
+--------+---------+-------------+------------+--------+--------------+
|    61  | ajinkya | taradgaon   | 7894561222 | MECH   | 2024-04-08   |
|    19  | rachit  | NULL        | 7894561211 | ENTC   | 2024-04-08   |
|     3  | meghraj | NULL        | 7894561221 | IT     | 2024-04-08   |
|     3  | meghraj | shardanagar | 7894561221 | IT     | 2024-04-08   |
```

```
|    3 | mwghraj | shardanagar | 9876543210 | IT   | 2024-04-08  |
|    3 | mwghraj | shardanagar | 9876543210 | IT   | 2024-04-08  |
|   19 | rachit  | akot        | 7894561211 | ENTC | 2024-04-08  |
|   19 | rachit  | akot        | 7894561211 | ENTC | 2024-04-08  |
+--------+---------+-------------+------------+--------+--------------+
8 rows in set (0.00 sec)
```

mysql> delimiter $$

mysql> create trigger before_delete_d1

   -> before delete on Students

   -> for each row

   -> begin

   -> insert into student_history(rollno,sname,addr,mno,branch,leaving_date)

   -> values(old.rollno,old.sname,old.addr,old.mno,old.branch,curdate());

   -> end;

   -> $$

Query OK, 0 rows affected (0.01 sec)

mysql> delete from Students where rollno=1;

   -> $$

Query OK, 2 rows affected (0.01 sec)

mysql> select * from Students;

   -> $$

```
+--------+---------+-------------+------------+--------+------------------+
| rollno | sname   | addr        | mno        | branch | email            |
+--------+---------+-------------+------------+--------+------------------+
|    3 | meghraj | shardanagar | 7894561221 | IT     | meghraj@gmail.com |
|    3 | mwghraj | shardanagar | 9876543210 | IT     | meghraj@gmail.com |
+--------+---------+-------------+------------+--------+------------------+
2 rows in set (0.00 sec)
```

```
mysql> select * from student_history;
    -> $$
+--------+---------+-------------+------------+--------+--------------+
| rollno | sname   | addr        | mno        | branch | leaving_date |
+--------+---------+-------------+------------+--------+--------------+
|     61 | ajinkya | taradgaon   | 7894561222 | MECH   | 2024-04-08   |
|     19 | rachit  | NULL        | 7894561211 | ENTC   | 2024-04-08   |
|      3 | meghraj | NULL        | 7894561221 | IT     | 2024-04-08   |
|      3 | meghraj | shardanagar | 7894561221 | IT     | 2024-04-08   |
|      3 | mwghraj | shardanagar | 9876543210 | IT     | 2024-04-08   |
|      3 | mwghraj | shardanagar | 9876543210 | IT     | 2024-04-08   |
|     19 | rachit  | akot        | 7894561211 | ENTC   | 2024-04-08   |
|     19 | rachit  | akot        | 7894561211 | ENTC   | 2024-04-08   |
|      1 | ismail  | tambenagar  | 7894561230 | IT     | 2024-04-08   |
|      1 | ismail  | tambenagar  | 7894561230 | IT     | 2024-04-08   |
|      1 | ismail  | tambenagar  | 7894561230 | IT     | 2024-04-08   |
|      1 | ismail  | tambenagar  | 7894561230 | IT     | 2024-04-08   |
|      1 | ismail  | tambenagar  | 7894561230 | IT     | 2024-04-08   |
|      1 | ismail  | tambenagar  | 7894561230 | IT     | 2024-04-08   |
+--------+---------+-------------+------------+--------+--------------+
14 rows in set (0.00 sec)

mysql>
```