ASSIGNMENT NO : 2

Name : Om G. Panchwate
Roll no : 31455
Subject : DBMSL

PLACEMENT DRIVE TABLE

```
mysql> create table PlacementDrive(
   -> Drive_id int PRIMARY KEY,
   -> Pcompany_name varchar(255),
   -> package int,
   -> location varchar(255));
Query OK, 0 rows affected (0.09 sec)
```

TRAINING TABLE

```
mysql> create table Training(
   -> T_id int PRIMARY KEY,
   -> Tcompany_name varchar(255),
   -> T_fee int,
   -> T_year year);
Query OK, 0 rows affected (0.09 sec)
```

STUDENT TABLE

```
mysql> create table Student(
   -> s_id int PRIMARY KEY,
   -> Drive_id int,
   -> T_id int,
   -> s_name varchar(255),
   -> CGPA float,
   -> s_branch varchar(255),
   -> s_dob date,
   -> constraint FOREIGN KEY(Drive_id) REFERENCES PlacementDrive(Drive_id));
```

```
mysql> create table Student(
   -> s_id int PRIMARY KEY,
   -> Drive_id int,
   -> T_id int,
   -> s_name varchar(255),
   -> CGPA float,
   -> s_branch varchar(255),
   -> s_dob date,
   -> constraint FOREIGN KEY(Drive_id) REFERENCES PlacementDrive(Drive_id) ON
        DELETE CASCADE,
   ->constraint FOREIGN KEY(T_id) REFERENCES Training(T_id) ON DELETE CASCADE);

Query OK, 0 rows affected (0.06 sec)
```

mysql> INSERT INTO PlacementDrive VALUES (1, 'Phone pe', 28, 'Pune'), (2, 'Amazon', 44, 'Banglore'), (3, 'Mastercard', 16, 'Mumbai'), (4, 'Deutche Bank', 24, 'Mumbai'), (5, 'Siemens', 12, 'Pune');
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> select * from PlacementDrive;

```
+----------+---------------+---------+----------+
| Drive_id | Pcompany_name | package | location |
+----------+---------------+---------+----------+
|      1 | Phone pe      |     28 | Pune     |
|      2 | Amazon        |     44 | Banglore |
|      3 | Mastercard    |     16 | Mumbai   |
|      4 | Deutche Bank  |     24 | Mumbai   |
|      5 | Siemens       |     12 | Pune     |
+----------+---------------+---------+----------+
5 rows in set (0.00 sec)
```

mysql> INSERT INTO Training VALUES (1, 'Mastercard', 2000, 2019), (2, 'iMocha', 5000, 2020), (3, 'Microsoft', 15000, 2019), (4, 'Siemens', 1850, 2019), (5, 'AWS', 5000, 2021);
Query OK, 5 rows affected (0.03 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> select * from Training;

```
+------+---------------+-------+--------+
| T_id | Tcompany_name | T_fee | T_year |
+------+---------------+-------+--------+
|   1 | Mastercard    |  2000 |   2019 |
|   2 | iMocha        |  5000 |   2020 |
|   3 | Microsoft     | 15000 |   2019 |
|   4 | Siemens       |  1850 |   2019 |
|   5 | AWS           |  5000 |   2021 |
+------+---------------+-------+--------+
5 rows in set (0.00 sec)
```

1. **Inserting values in Student Table**

mysql> INSERT INTO Student VALUES (1, 2, 3, 'Ayush', 9.2, 'Computer', '2003-01-23'), (2, 3, 5,'Durvesh',8.9, 'IT','2003-12-27'), (3,2,3,'Om', 9.1, 'Computer', '2003-06-07'), (4, 1, 4, 'Ujwal', 8.5,'IT', '2003-08-25'), (5, 3, 5, 'Atharva', 8.6,'Computer', '2003-07-26'), (6, 2, 3, 'Bhagyashree', 9.2, 'IT', '2003-09-06'), (7, 3, 1,'David', 8.9, 'Computer','2003-05-15');
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0

```
mysql> select * from Student;
+------+----------+------+-------------+------+----------+------------+
| s_id | Drive_id | T_id | s_namee     | CGPA | s_branch | s_dob      |
+------+----------+------+-------------+------+----------+------------+
|    1 |        2 |    3 | Ayush       |  9.2 | Computer | 2003-01-23 |
|    2 |        3 |    5 | Durvesh     |  8.9 | IT       | 2003-12-27 |
|    3 |        2 |    3 | Om          |  9.1 | Computer | 2003-06-07 |
|    4 |        1 |    4 | Ujwal       |  8.5 | IT       | 2003-08-25 |
|    5 |        3 |    5 | Atharva     |  8.6 | Computer | 2003-07-26 |
|    6 |        2 |    3 | Bhagyashree |  9.2 | IT       | 2003-09-06 |
|    7 |        3 |    1 | David       |  8.9 | Computer | 2003-05-15 |
+------+----------+------+-------------+------+----------+------------+
7 rows in set (0.00 sec)
```

Renaming the column name :

mysql> ALTER TABLE Student RENAME COLUMN s_namee TO s_name;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0

```
mysql> select * from Student;
+------+----------+------+-------------+------+----------+------------+
| s_id | Drive_id | T_id | s_name      | CGPA | s_branch | s_dob      |
+------+----------+------+-------------+------+----------+------------+
|    1 |        2 |    3 | Ayush       |  9.2 | Computer | 2003-01-23 |
|    2 |        3 |    5 | Durvesh     |  8.9 | IT       | 2003-12-27 |
|    3 |        2 |    3 | Om          |  9.1 | Computer | 2003-06-07 |
|    4 |        1 |    4 | Ujwal       |  8.5 | IT       | 2003-08-25 |
|    5 |        3 |    5 | Atharva     |  8.6 | Computer | 2003-07-26 |
|    6 |        2 |    3 | Bhagyashree |  9.2 | IT       | 2003-09-06 |
|    7 |        3 |    1 | David       |  8.9 | Computer | 2003-05-15 |
+------+----------+------+-------------+------+----------+------------+
7 rows in set (0.00 sec)
```

2. mysql> select * from Student where s_name like ‘a%’ or s_name like ‘d%’ and s_branch=’Computer’;

```
mysql> select * from Student WHERE s_name LIKE 'a%' OR s_name LIKE 'b%' AND
s_branch = 'Computer' OR s_branch = 'IT';
+------+----------+------+-------------+------+----------+------------+
| s_id | Drive_id | T_id | s_name      | CGPA | s_branch | s_dob      |
+------+----------+------+-------------+------+----------+------------+
|    1 |        2 |    3 | Ayush       |  9.2 | Computer | 2003-01-23 |
|    2 |        3 |    5 | Durvesh     |  8.9 | IT       | 2003-12-27 |
|    4 |        1 |    4 | Ujwal       |  8.5 | IT       | 2003-08-25 |
|    5 |        3 |    5 | Atharva     |  8.6 | Computer | 2003-07-26 |
|    6 |        2 |    3 | Bhagyashree |  9.2 | IT       | 2003-09-06 |
+------+----------+------+-------------+------+----------+------------+
5 rows in set (0.00 sec)
```

3. mysql> select count(distinct Pcompany_name) from PlacementDrive;

```
+------------------------------+
| count(distinct Pcompany_name) |
+------------------------------+
|                            5 |
+------------------------------+
1 row in set (0.00 sec)
```

4. UPDATE Training SET T_fee = T_fee*0.15 + T_fee;

```
mysql> UPDATE Training SET T_fee = T_fee*0.15 + T_fee;
Query OK, 5 rows affected (0.01 sec)
Rows matched: 5  Changed: 5  Warnings: 0

mysql> select * from Training;
+------+---------------+-------+--------+
| T_id | Tcompany_name | T_fee | T_year |
+------+---------------+-------+--------+
|    1 | Mastercard    |  2300 |   2019 |
|    2 | iMocha        |  5750 |   2020 |
|    3 | Microsoft     | 17250 |   2019 |
|    4 | Siemens       |  2128 |   2019 |
|    5 | AWS           |  5750 |   2021 |
+------+---------------+-------+--------+
5 rows in set (0.00 sec)
```

5. Delete Student details having CGPA score less than 9

```
mysql> DELETE FROM Student WHERE CGPA < 9.0;
Query OK, 4 rows affected (0.01 sec)

mysql> select * from Student;
+------+----------+------+-------------+------+----------+------------+
| s_id | Drive_id | T_id | s_name      | CGPA | s_branch | s_dob      |
+------+----------+------+-------------+------+----------+------------+
|    1 |        2 |    3 | Ayush       |  9.2 | Computer | 2003-01-23 |
|    3 |        2 |    3 | Om          |  9.1 | Computer | 2003-06-07 |
|    6 |        2 |    3 | Bhagyashree |  9.2 | IT       | 2003-09-06 |
+------+----------+------+-------------+------+----------+------------+
3 rows in set (0.00 sec)
```

6. Find the names of companies belonging to pune or Mumbai

SELECT Pcompany_name, location FROM PlacementDrive WHERE location = 'Mumbai' OR location = 'Pune';

```
mysql> SELECT Pcompany_name, l
+---------------+----------+
| Pcompany_name | location |
+---------------+----------+
| Phone pe      | Pune     |
| Mastercard    | Mumbai   |
| Deutche Bank  | Mumbai   |
| Siemens       | Pune     |
| Infosys       | Pune     |
+---------------+----------+
5 rows in set (0.00 sec)
```

7. Find the student name who joined training in 2019 as well as in 2021

SELECT s_name, T_year from Student INNER JOIN Training ON Student.T_id = Training.T_id WHERE T_year = 2019 or T_year = 2021;

```
+-------------+--------+
| s_name      | T_year |
+-------------+--------+
| David       |   2019 |
| Ayush       |   2019 |
| Bhagyashree |   2019 |
| Ujwal       |   2019 |
| Durvesh     |   2021 |
| Atharva     |   2021 |
+-------------+--------+
6 rows in set (0.00 sec)
```

8. Find the student name having maximum CGPA score and names of students having CGPA score between 7 to 9 .

MAXIMUM

SELECT s_name, CGPA FROM Student WHERE CGPA = (SELECT MIN(CGPA) FROM Student);

```
mysql> SELECT s_name, CGPA FROM
+-------------+------+
| s_name      | CGPA |
+-------------+------+
| Ayush       |  9.2 |
| Bhagyashree |  9.2 |
+-------------+------+
2 rows in set (0.00 sec)
```

SELECT s_name, CGPA FROM Student WHERE CGPA = (SELECT MAX(CGPA) FROM Student) LIMIT 1;

```
mysql> SELECT s_name,
+--------+------+
| s_name | CGPA |
+--------+------+
| Ayush  |  9.2 |
+--------+------+
```

BETWEEN 8 and 9

SELECT s_name, CGPA from Student where CGPA BETWEEN 8 AND 9;

```
mysql> SELECT s_name, CGPA
+---------+------+
| s_name  | CGPA |
+---------+------+
| Durvesh |  8.9 |
| Ujwal   |  8.5 |
| Atharva |  8.6 |
| David   |  8.9 |
+---------+------+
4 rows in set (0.01 sec)
```

9. Display all Student name with T_id with decreasing order of Fees.

mysql> SELECT s_name, Student.T_id, Training.T_fee from Student INNER JOIN Training ON Student.T_id = Training.T_id ORDER BY Training.T_fee DESC;

```
mysql> SELECT s_name, Student.T_id,
+-------------+------+-------+
| s_name      | T_id | T_fee |
+-------------+------+-------+
| Ayush       |    3 | 17250 |
| Bhagyashree |    3 | 17250 |
| Durvesh     |    5 |  5750 |
| Om          |    2 |  5750 |
| Atharva     |    5 |  5750 |
| David       |    1 |  2300 |
| Ujwal       |    4 |  2128 |
+-------------+------+-------+
7 rows in set (0.00 sec)
```

10. Display PCompany name, S_name , Location and Package with Package 44 LPA, 24 LPA and 16 LPA.

mysql> SELECT PLacementDrive.Pcompany_name, Student.s_name, PlacementDrive.package FROM Student INNER JOIN PlacementDrive ON Student.Drive_id = PlacementDrive.Drive_id WHERE package=44 OR package=28 OR package=16;

```
+--------------+-------------+---------+
| Pcompany_name | s_name      | package |
+--------------+-------------+---------+
| Phone pe      | Ujwal       |      28 |
| Amazon        | Ayush       |      44 |
| Amazon        | Om          |      44 |
| Amazon        | Bhagyashree |      44 |
| Mastercard    | Durvesh     |      16 |
| Mastercard    | Atharva     |      16 |
| Mastercard    | David       |      16 |
+--------------+-------------+---------+
7 rows in set (0.00 sec)
```