

## Assignment No 2A

### Student Schema

Consider the following relational Schema.

- Student( s\_id,Drive\_id,T\_id,s\_name,CGPA,s\_branch,S\_dob)
- PlacementDrive( Drive\_id,Pcompany\_name,package,location)
- Training ( T\_id,Tcompany\_name,T\_Fee,T\_year)

### Table Creation

```
mysql> CREATE TABLE PlacementDrive( Drive_id int NOT NULL, Pcompany_name  
varchar(255), package int NOT NULL, location varchar(255), PRIMARY KEY(Drive_id) );  
Query OK, 0 rows affected (13.57 sec)
```

```
mysql> CREATE TABLE Training( T_id int AUTO_INCREMENT, Tcompany_name varchar(255),  
T_fee int NOT NULL , T_year date NOT NULL, PRIMARY KEY (T_id));  
Query OK, 0 rows affected (0.18 sec)
```

```
mysql> CREATE TABLE Student( S_id int AUTO_INCREMENT , Drive_id int NULL , T_id int  
NULL , s_name varchar(255),CGPA int NOT NULL , s_branch varchar(255) , s_dob date NOT  
NULL , PRIMARY KEY (S_id), FOREIGN KEY(T_id) REFERENCES Training(T_id) ON  
DELETE CASCADE , FOREIGN KEY(Drive_id) REFERENCES PlacementDrive(Drive_id) ON  
DELETE CASCADE);  
Query OK, 0 rows affected (0.21 sec)
```

### 1. Insert at least 10 records in the Student table and insert other tables accordingly.

```
mysql> INSERT INTO PlacementDrive (Drive_id , Pcompany_name , package , location )  
VALUES (1 , "MicroSoft" , 50000 , "Pune" ),  
-> (2 , "Google" , 40000 , "Mumbai"),  
-> (3 , "Flipkart" , 30000 , "Pune"),  
-> (4 , "Amazon" , 25000 , "Nagpur"),  
-> (5 , "Zomato" , 35000 , "Delhi"),  
-> (6 , "Facebook" , 15000 , "Delhi");  
Query OK, 6 rows affected (0.03 sec)  
Records: 6 Duplicates: 0 Warnings: 0
```

```
mysql> INSERT INTO Training(Tcompany_name , T_fee , T_year) VALUES("Uber" , 25000,  
'2023-4-28'),
```

```
-> ("Ola" , 35000 , '2023-8-12'),
-> ("Zepto" , 10000, '2024-1-12'),
-> ("Swiggy" ,5000, '2023-3-4'),
-> ("Blinkit",4000, '2019-3-28'),
-> ("Google" , 6000, '2020-4-25'),
-> ("Microsoft",7000,'2020-11-1'),
-> ("Flipkart",3500,'2020-10-28'),
-> ("Amazon",2500, '2020-9-16');
```

Query OK, 9 rows affected (0.03 sec)

Records: 9 Duplicates: 0 Warnings: 0

```
mysql> INSERT INTO Student( Drive_id , T_id ,s_name,CGPA , s_branch , s_dob ) VALUES(1
, 1 , "Soham" ,8.8, "Computer Engineering", '2004-11-1' ),
```

```
-> (1 , 2 , "Pawan", 6.9 , "Computer Engineering" , '2004-9-5' ),
-> (3 , 1 , "Lakshya" , 9.9, "Computer Engineering", '2005-6-28'),
-> (4 , 5 , "John" , 9.1 , "Computer Engineering" , '2003-4-19'),
-> (2 , 1 , "Siddhesh",8.5 , "Information Technology", '2004-8-23'),
-> (5 , 8 , "Anish", 8.8 , "Computer Engineering" , '2004-9-13'),
-> (1 , 7 , "Sanket" , 6.9 , "Information Technology" , '2004-7-22'),
-> (1 , 4 , "Dhanesh", 6.6, "Electronics Engineering", '2004-2-13'),
-> (2,7, "Avdhoot", 8.9 , "Electronics Engineering" , '2003-5-21'),
-> (3 , 4 , "Ramesh" , 8.36, "Computer Engineering", '2004-11-24');
```

Query OK, 10 rows affected (0.09 sec)

Records: 10 Duplicates: 0 Warnings: 0

```
mysql> Select * from Student;
```

S_id	Drive_id	T_id	s_name	CGPA	s_branch	s_dob
2	1	1	Soham	8.8	Computer Engineering	2004-11-01
3	1	2	Pawan	6.9	Computer Engineering	2004-09-05
4	3	1	Lakshya	9.9	Computer Engineering	2005-06-28
5	4	5	John	9.1	Computer Engineering	2003-04-19
6	2	1	Siddhesh	8.5	Information Technology	2004-08-23
7	5	8	Anish	8.8	Computer Engineering	2004-09-13
8	1	7	Sanket	6.9	Information Technology	2004-07-22
9	1	4	Dhanesh	6.6	Electronics Engineering	2004-02-13
10	2	7	Avdhoot	8.9	Electronics Engineering	2003-05-21
11	3	4	Ramesh	8.36	Computer Engineering	2004-11-24

10 rows in set (0.00 sec)

```
mysql> select * from PlacementDrive;
+-----+-----+-----+-----+
| Drive_id | Pcompany_name | pakage | location |
+-----+-----+-----+-----+
| 1 | MicroSoft | 50000 | Pune |
| 2 | Google | 40000 | Mumbai |
| 3 | Flipkart | 30000 | Pune |
| 4 | Amazon | 25000 | Nagpur |
| 5 | Zomato | 35000 | Delhi |
| 6 | Facebook | 15000 | Delhi |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

```
mysql> Select * from Training;
+-----+-----+-----+-----+
| T_id | Tcompany_name | T_fee | T_year |
+-----+-----+-----+-----+
| 1 | Uber | 25000 | 2023-04-28 |
| 2 | Ola | 35000 | 2023-08-12 |
| 3 | Zepto | 10000 | 2024-01-12 |
| 4 | Swiggy | 5000 | 2023-03-04 |
| 5 | Blinkit | 4000 | 2019-03-28 |
| 6 | Google | 6000 | 2020-04-25 |
| 7 | Microsoft | 7000 | 2020-11-01 |
| 8 | Flipkart | 3500 | 2020-10-28 |
| 9 | Amazon | 2500 | 2020-09-16 |
+-----+-----+-----+-----+
9 rows in set (0.00 sec)
```

**Create view(simple), index, sequence and synonym based on above tables.**

```
mysql> CREATE INDEX idx ON Student (S_id);
Query OK, 0 rows affected (0.18 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> CREATE VIEW Student_view AS SELECT S_id , s_name , CGPA , s_branch , s_dob
FROM Student;
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> SELECT * FROM Student_view;
+-----+-----+-----+-----+-----+
| S_id | s_name | CGPA | s_branch | s_dob |
+-----+-----+-----+-----+-----+
```

```

+-----+-----+-----+-----+-----+
| 1 | Samir | 8.7 | Computer Engineering | 2004-10-01 |
| 2 | Soham | 8.8 | Computer Engineering | 2004-11-01 |
| 4 | Lakshya | 9.9 | Computer Engineering | 2005-06-28 |
| 5 | John | 9.1 | Computer Engineering | 2003-04-19 |
| 6 | Siddhesh | 8.5 | Information Technology | 2004-08-23 |
| 7 | Anish | 8.8 | Computer Engineering | 2004-09-13 |
| 10 | Avdhoot | 8.9 | Electronics Engineering | 2003-05-21 |
| 11 | Ramesh | 8.36 | Computer Engineering | 2004-11-24 |
+-----+-----+-----+-----+
8 rows in set (0.00 sec)

```

mysql>

## 2. Display all students details with branch 'Computer' and 'It' and student name starting with 'a' or 'd'.

```

mysql> select * from Student where s_branch IN ("Computer Engineering","Information
Technology") AND s_name LIKE "a%" OR "d%";
+-----+-----+-----+-----+-----+
| S_id | Drive_id | T_id | s_name | CGPA | s_branch | s_dob |
+-----+-----+-----+-----+-----+
| 7 | 5 | 8 | Anish | 8.8 | Computer Engineering | 2004-09-13 |
+-----+-----+-----+-----+
1 row in set, 5 warnings (0.00 sec)

```

## 3. list the number of different companies.(use of distinct)

```

mysql> SELECT DISTINCT Pcompany_name AS company_name FROM PlacementDrive
-> UNION
-> SELECT DISTINCT Tcompany_name AS company_name FROM Training;
+-----+
| company_name |
+-----+
| MicroSoft |
| Google |
| Flipkart |
| Amazon |
| Zomato |
| Facebook |
| Uber |
| Ola |

```

```
| Zepto      |
| Swiggy     |
| Blinkit    |
+-----+
11 rows in set (0.00 sec)
```

#### 4. Give 15% increase in fee of the Training whose joining year is 2019.

```
mysql> UPDATE Training
-> SET T_fee = T_fee * 1.15
-> WHERE YEAR(T_year) = 2019
-> ;
Query OK, 1 row affected (0.04 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> Select * from Training;
+-----+-----+-----+-----+
| T_id | Tcompany_name | T_fee | T_year |
+-----+-----+-----+-----+
| 1 | Uber | 25000 | 2023-04-28 |
| 2 | Ola | 35000 | 2023-08-12 |
| 3 | Zepto | 10000 | 2024-01-12 |
| 4 | Swiggy | 5000 | 2023-03-04 |
| 5 | Blinkit | 6084 | 2019-03-28 |
| 6 | Google | 6000 | 2020-04-25 |
| 7 | Microsoft | 7000 | 2020-11-01 |
| 8 | Flipkart | 3500 | 2020-10-28 |
| 9 | Amazon | 2500 | 2020-09-16 |
+-----+-----+-----+-----+
9 rows in set (0.00 sec)
```

#### 5. Delete Student details having CGPA score less than 7.

```
mysql> delete from Student WHERE CGPA < 7;
Query OK, 3 rows affected (0.04 sec)
```

```
mysql> Select * from Student;
+-----+-----+-----+-----+-----+-----+-----+
| S_id | Drive_id | T_id | s_name | CGPA | s_branch | s_dob |
+-----+-----+-----+-----+-----+-----+-----+

```

1	5	1	Samir	8.7	Computer Engineering	2004-10-01
2	1	1	Soham	8.8	Computer Engineering	2004-11-01
4	3	1	Lakshya	9.9	Computer Engineering	2005-06-28
5	4	5	John	9.1	Computer Engineering	2003-04-19
6	2	1	Siddhesh	8.5	Information Technology	2004-08-23
7	5	8	Anish	8.8	Computer Engineering	2004-09-13
10	2	7	Avdhoot	8.9	Electronics Engineering	2003-05-21
11	3	4	Ramesh	8.36	Computer Engineering	2004-11-24

8 rows in set (0.00 sec)

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

```
mysql> SELECT Pcompany_name FROM PlacementDrive WHERE location IN
("Pune","Mumbai");
```

Pcompany_name
MicroSoft
Google
Flipkart

3 rows in set (0.00 sec)

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

```
mysql> SELECT DISTINCT s.s_name
-> FROM Student s
-> INNER JOIN Training t ON s.T_id = t.T_id
-> WHERE YEAR(t.T_year) IN (2019, 2021);
```

s_name
Samir
Soham
Lakshya
John
Siddhesh

5 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 .**

```
mysql> SELECT s_name From Student WHERE CGPA = (SELECT MAX(CGPA) FROM
Student );
+-----+
| s_name |
+-----+
| Lakshya |
+-----+
1 row in set (0.00 sec)
```

```
mysql> SELECT s_name From Student WHERE CGPA BETWEEN 7 AND 9;
+-----+
| s_name |
+-----+
| Samir   |
| Soham   |
| Siddhesh |
| Anish   |
| Avdhoot |
| Ramesh  |
+-----+
6 rows in set (0.01 sec)
```

**9. Display all Student name with T\_id with decreasing order of Fees**

```
mysql> SELECT s.s_name, t.T_id, t.T_fee FROM Student s INNER JOIN Training t ON s.T_id =
t.T_id ORDER BY t.T_fee DESC;
+-----+-----+-----+
| s_name | T_id | T_fee |
+-----+-----+-----+
| Samir   | 1 | 25000 |
| Soham   | 1 | 25000 |
| Lakshya | 1 | 25000 |
| Siddhesh | 1 | 25000 |
| Avdhoot | 7 | 7000 |
| John    | 5 | 6084 |
| Ramesh  | 4 | 5000 |
```

```
| Anish | 8 | 3500 |
+-----+-----+-----+
8 rows in set (0.01 sec)
```

**10. Display PCompany name, S\_name ,location and Package with Package 30K, 40K and 50k**

```
mysql> SELECT p.Pcompany_name , s.s_name , p.location , p.pakage From Student s INNER
JOIN PlacementDrive as p ON s.Drive_id = p.Drive_id WHERE p.pakage
IN(30000,40000,50000);
```

```
+-----+-----+-----+-----+
| Pcompany_name | s_name | location | package |
+-----+-----+-----+-----+
| MicroSoft | Soham | Pune | 50000 |
| Flipkart | Lakshya | Pune | 30000 |
| Google | Siddhesh | Mumbai | 40000 |
| Google | Avdhoot | Mumbai | 40000 |
| Flipkart | Ramesh | Pune | 30000 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```