

## Assignment No. 02

### create table placementDrive

```
mysql> create table placementDrive(drive_id int,pcompany_name varchar(20),package int,location
varchar(20),primary key(drive_id));
Query OK, 0 rows affected (0.22 sec)
```

### create table Training

```
mysql> create table Training(t_id int,tcompany_name varchar(20),t_fee int,t_year int,primary key
(t_id));
Query OK, 0 rows affected (0.18 sec)
```

### create table Student

```
mysql> create table Student (s_id int,drive_id int,t_id int,s_name varchar(20),cgpa float,s_branch
varchar(10),s_dob date ,primary key(s_id),foreign key(drive_id)references
placementDrive(drive_id),foreign key(t_id)references Training(t_id)
on delete cascade);
Query OK, 0 rows affected (0.21 sec)
```

### Insert records into placement drive

```
mysql> insert into placementDrive values( 1,"Google",2000000,"pune");
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into placementDrive values( 2,"Microsoft",4000000,"Banglore");
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into placementDrive values( 3,"amazon",2500000,"mumbai");
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into placementDrive values( 4,"adobe",3000000,"Hydrabad");
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into placementDrive values( 5,"barclays",1800000,"pune");
Query OK, 1 row affected (0.03 sec)
```

```
mysql> select * from placementDrive;
```

```
+-----+-----+-----+-----+
| drive_id | pcompany_name | package | location |
+-----+-----+-----+-----+
| 1 | Google | 2000000 | pune |
| 2 | Microsoft | 4000000 | Banglore |
| 3 | amazon | 2500000 | mumbai |
| 4 | adobe | 3000000 | Hydrabad |
| 5 | barclays | 1800000 | pune |
```

```
+-----+-----+-----+-----+
5 rows in set (0.01 sec)
```

### **Insert records into Training**

```
mysql> insert into Training values(1,"hdfcBank",20000,2024);
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into Training values(2,"microsoft",30000,2023);
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into Training values(3,"flipkart",22000,2023);
Query OK, 1 row affected (0.04 sec)
```

```
mysql> insert into Training values(4,"barclays",27000,2024);
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into Training values(5,"amdocs",40000,2022);
Query OK, 1 row affected (0.03 sec)
```

```
mysql> select * from Training;
```

```
+-----+-----+-----+-----+
| t_id | tcompany_name | t_fee | t_year |
+-----+-----+-----+-----+
| 1 | hdfcBank | 20000 | 2024 |
| 2 | microsoft | 30000 | 2023 |
| 3 | flipkart | 22000 | 2023 |
| 4 | barclays | 27000 | 2024 |
| 5 | amdocs | 40000 | 2022 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

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

```
mysql> insert into Student values(111,1,2,"shreya",9.6,"computer",'2004-04-01');
Query OK, 1 row affected (0.04 sec)
```

```
mysql> insert into Student values(222,2,3,"neha",8.6,"it",'2004-05-06');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into Student values(333,3,4,"siddhi",9.7,"it",'2004-02-09');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into Student values(444,4,5,"sakshi",7.2,"computer",'2004-04-12');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into Student values(555,5,1,"akshay",8.3,"it",'2004-08-15');
```

Query OK, 1 row affected (0.04 sec)

```
mysql> insert into Student values(666,4,2,"swarnim",7.6,"computer",'2004-06-24');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into Student values(777,3,3,"mohit",6.7,"it",'2004-09-17');
Query OK, 1 row affected (0.04 sec)
```

```
mysql> insert into Student values(888,2,1,"riya",8.2,"computer",'2004-04-01');
Query OK, 1 row affected (0.04 sec)
```

```
mysql> insert into Student values(999,1,4,"divya",7.8,"computer",'2004-04-09');
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into Student values(101,2,5,"anushka",9.3,"it",'2004-01-01');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> select * from Student;
```

s_id	drive_id	t_id	s_name	cgpa	s_branch	s_dob
101	2	5	anushka	9.3	it	2004-01-01
111	1	2	shreya	9.6	computer	2004-04-01
222	2	3	neha	8.6	it	2004-05-06
333	3	4	siddhi	9.7	it	2004-02-09
444	4	5	sakshi	7.2	computer	2004-04-12
555	5	1	akshay	8.3	it	2004-08-15
666	4	2	swarnim	7.6	computer	2004-06-24
777	3	3	mohit	6.7	it	2004-09-17
888	2	1	riya	8.2	computer	2004-04-01
999	1	4	divya	7.8	computer	2004-04-09

10 rows in set (0.00 sec)

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

```
mysql> select * from Student where s_branch IN('computer','it') and (s_name like 'a%' or s_name like 's%');
```

s_id	drive_id	t_id	s_name	cgpa	s_branch	s_dob
101	2	5	anushka	9.3	it	2004-01-01
111	1	2	shreya	9.6	computer	2004-04-01
333	3	4	siddhi	9.7	it	2004-02-09
444	4	5	sakshi	7.2	computer	2004-04-12
555	5	1	akshay	8.3	it	2004-08-15
666	4	2	swarnim	7.6	computer	2004-06-24

6 rows in set (0.00 sec)

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

```
mysql> select distinct pcompany_name from placementDrive;
```

```
+-----+
| pcompany_name |
+-----+
| Google        |
| Microsoft     |
| amazon        |
| adobe         |
| barclays      |
+-----+
```

5 rows in set (0.00 sec)

### 4. Give 15% increase in fee of the Training whose joining year is 2023.

```
mysql> update Training set t_fee=t_fee * 1.15 where t_year=2023;
```

Query OK, 2 rows affected (0.03 sec)

Rows matched: 2 Changed: 2 Warnings: 0

```
mysql> select * from Training;
```

```
+-----+-----+-----+-----+
| t_id | tcompany_name | t_fee | t_year |
+-----+-----+-----+-----+
| 1 | hdfcBank      | 20000 | 2024 |
| 2 | microsoft     | 34500 | 2023 |
| 3 | flipkart      | 25300 | 2023 |
| 4 | barclays      | 27000 | 2024 |
| 5 | amdocs        | 40000 | 2022 |
+-----+-----+-----+-----+
```

5 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, 1 row affected (0.03 sec)

```
mysql> select * from Student;
```

```
+-----+-----+-----+-----+-----+-----+
| s_id | drive_id | t_id | s_name | cgpa | s_branch | s_dob |
+-----+-----+-----+-----+-----+-----+
| 101 | 2 | 5 | anushka | 9.3 | it | 2004-01-01 |
| 102 | NULL | NULL | aarya | 8.8 | it | NULL |
| 111 | 1 | 2 | shreya | 9.6 | computer | 2004-04-01 |
| 222 | 2 | 3 | neha | 8.6 | it | 2004-05-06 |
| 333 | 3 | 4 | siddhi | 9.7 | it | 2004-02-09 |
| 444 | 4 | 5 | sakshi | 7.2 | computer | 2004-04-12 |
| 555 | 5 | 1 | akshay | 8.3 | it | 2004-08-15 |
| 666 | 4 | 2 | swarnim | 7.6 | computer | 2004-06-24 |
| 888 | 2 | 1 | riya | 8.2 | computer | 2004-04-01 |
+-----+-----+-----+-----+-----+-----+
```

```
| 999 | 1 | 4 | divya | 7.8 | computer | 2004-04-09 |
+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

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

```
mysql> select * from placementDrive where location in('pune','mumbai');
+-----+-----+-----+-----+
| drive_id | pcompany_name | package | location |
+-----+-----+-----+-----+
| 1 | Google | 2000000 | pune |
| 3 | amazon | 2500000 | mumbai |
| 5 | barclays | 1800000 | pune |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

## 7. Find the student name who joined training in 1-1-2023 as well as in 1-1-2024

```
mysql> select * from Training where t_year between '2023' and '2024';
+-----+-----+-----+-----+
| t_id | tcompany_name | t_fee | t_year |
+-----+-----+-----+-----+
| 1 | hdfcBank | 20000 | 2024 |
| 2 | microsoft | 30000 | 2023 |
| 3 | flipkart | 22000 | 2023 |
| 4 | barclays | 27000 | 2024 |
+-----+-----+-----+-----+
4 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 between 7 and 9;
+-----+
| s_name |
+-----+
| aarya |
| neha |
| sakshi |
| akshay |
| swarnim |
| riya |
| divya |
+-----+
7 rows in set (0.00 sec)
```

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

```
mysql> SELECT s.s_name, s.T_id FROM Student s JOIN Training t ON s.T_id = t.T_id  
ORDER BY t.t_fee DESC;
```

```
+-----+-----+  
| s_name | T_id |  
+-----+-----+  
| anushka | 5 |  
| sakshi | 5 |  
| shreya | 2 |  
| swarnim | 2 |  
| siddhi | 4 |  
| divya | 4 |  
| neha | 3 |  
| akshay | 1 |  
| riya | 1 |
```

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

```
mysql> select pcompany_name s_name , location ,package from placementDrive where package  
in(2000000,3000000,4000000);
```

```
+-----+-----+-----+  
| s_name | location | package |  
+-----+-----+-----+  
| Google | pune | 2000000 |  
| Microsoft | Bangalore | 4000000 |  
| adobe | Hyderabad | 3000000 |
```

## create view

```
mysql> create view Studentview as select s_id,s_name ,cgpa,s_branch from Student;  
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> select * from Studentview;
```

```
+-----+-----+-----+-----+  
| s_id | s_name | cgpa | s_branch |  
+-----+-----+-----+-----+  
| 101 | anushka | 9.3 | it |  
| 111 | shreya | 9.6 | computer |  
| 222 | neha | 8.6 | it |  
| 333 | siddhi | 9.7 | it |  
| 444 | sakshi | 7.2 | computer |  
| 555 | akshay | 8.3 | it |  
| 666 | swarnim | 7.6 | computer |  
| 777 | mohit | 6.7 | it |  
| 888 | riya | 8.2 | computer |  
| 999 | divya | 7.8 | computer |  
+-----+-----+-----+-----+
```

10 rows in set (0.00 sec)

```
mysql> select * from Studentview where cgpa > 9;
```

s_id	s_name	cgpa	s_branch
101	anushka	9.3	it
111	shreya	9.6	computer
333	siddhi	9.7	it

3 rows in set (0.00 sec)

```
mysql> insert into Studentview values(103,'aditya',8.9,'computer');  
Query OK, 1 row affected (0.03 sec)
```

```
mysql> select * from Studentview;
```

s_id	s_name	cgpa	s_branch
101	anushka	9.3	it
102	aarya	8.8	it
103	aditya	8.9	computer
111	shreya	9.6	computer
222	neha	8.6	it
333	siddhi	9.7	it
444	sakshi	7.2	computer
555	akshay	8.3	it
666	swarnim	7.6	computer
777	mohit	6.7	it
888	riya	8.2	computer
999	divya	7.8	computer

12 rows in set (0.05 sec)

### **delete from student view**

```
mysql> delete from Studentview where s_id=103;  
Query OK, 1 row affected (0.07 sec)
```

```
mysql> select * from Studentview;
```

s_id	s_name	cgpa	s_branch
101	anushka	9.3	it
102	aarya	8.8	it
111	shreya	9.6	computer
222	neha	8.6	it
333	siddhi	9.7	it
444	sakshi	7.2	computer
555	akshay	8.3	it

```
| 666 | swarnim | 7.6 | computer |
| 777 | mohit   | 6.7 | it       |
| 888 | riya    | 8.2 | computer |
| 999 | divya   | 7.8 | computer |
+-----+-----+-----+-----+
11 rows in set (0.13 sec)
```

### create complex view

```
mysql> CREATE VIEW studView AS select Student.s_id, Student.s_name,
placementDrive.pcompany_name, placementDrive.package FROM Student, placementDrive;
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> select * from studView;
+-----+-----+-----+-----+
| s_id | s_name | pcompany_name | package |
+-----+-----+-----+-----+
| 101 | anushka | Google        | 2000000 |
| 101 | anushka | Microsoft     | 4000000 |
| 101 | anushka | amazon        | 2500000 |
| 101 | anushka | adobe         | 3000000 |
| 101 | anushka | barclays      | 1800000 |
| 102 | aarya  | Google        | 2000000 |
| 102 | aarya  | Microsoft     | 4000000 |
| 102 | aarya  | amazon        | 2500000 |
| 102 | aarya  | adobe         | 3000000 |
| 102 | aarya  | barclays      | 1800000 |
| 111 | shreya | Google        | 2000000 |
| 111 | shreya | Microsoft     | 4000000 |
| 111 | shreya | amazon        | 2500000 |
| 111 | shreya | adobe         | 3000000 |
| 111 | shreya | barclays      | 1800000 |
| 222 | neha   | Google        | 2000000 |
| 222 | neha   | Microsoft     | 4000000 |
| 222 | neha   | amazon        | 2500000 |
| 222 | neha   | adobe         | 3000000 |
| 222 | neha   | barclays      | 1800000 |
| 333 | siddhi | Google        | 2000000 |
| 333 | siddhi | Microsoft     | 4000000 |
| 333 | siddhi | amazon        | 2500000 |
| 333 | siddhi | adobe         | 3000000 |
| 333 | siddhi | barclays      | 1800000 |
| 444 | sakshi | Google        | 2000000 |
| 444 | sakshi | Microsoft     | 4000000 |
| 444 | sakshi | amazon        | 2500000 |
| 444 | sakshi | adobe         | 3000000 |
| 444 | sakshi | barclays      | 1800000 |
| 555 | akshay | Google        | 2000000 |
| 555 | akshay | Microsoft     | 4000000 |
| 555 | akshay | amazon        | 2500000 |
| 555 | akshay | adobe         | 3000000 |
| 555 | akshay | barclays      | 1800000 |
| 666 | swarnim | Google        | 2000000 |
```

```
CREATE VIEW StudentDetails AS
SELECT s_id, s_name, s_branch, CGPA,
PlacementDrive.Pcompany_name,
Training.Tcompany_name
FROM Student
JOIN PlacementDrive ON Student.Drive_id =
PlacementDrive.Drive_id
JOIN Training ON Student.T_id = Training.T_id;
```



666	swarnim	Microsoft	4000000
666	swarnim	amazon	2500000
666	swarnim	adobe	3000000
666	swarnim	barclays	1800000
777	mohit	Google	2000000
777	mohit	Microsoft	4000000
777	mohit	amazon	2500000
777	mohit	adobe	3000000
777	mohit	barclays	1800000
888	riya	Google	2000000
888	riya	Microsoft	4000000
888	riya	amazon	2500000
888	riya	adobe	3000000
888	riya	barclays	1800000
999	divya	Google	2000000
999	divya	Microsoft	4000000
999	divya	amazon	2500000
999	divya	adobe	3000000
999	divya	barclays	1800000

55 rows in set (0.00 sec)

## create Index

```
mysql> create index student_index on Student(s_id);
Query OK, 0 rows affected (0.36 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> select * from Student where s_id=111 ;
+-----+-----+-----+-----+-----+-----+-----+
| s_id | drive_id | t_id | s_name | cgpa | s_branch | s_dob |
+-----+-----+-----+-----+-----+-----+-----+
| 111 | 1 | 2 | shreya | 9.6 | computer | 2004-04-01 |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

## create composite index

```
mysql> create unique index s_index on Student(s_id,s_name);
Query OK, 0 rows affected (0.18 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

s_id	drive_id	t_id	s_name	cgpa	s_branch	s_dob
222	2	3	neha	8.6	it	2004-05-06

1 row in set (0.00 sec)