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DBMSL

## Assignment 3B

Student Table:

```
mysql> SELECT * FROM Student;
```

s_id	drive_id	T_id	s_name	cgpa	s_branch	s_dob
6	1	101	Siddhi Borse	9.75	Computer Science	2000-05-15
7	2	102	Dhanashree Borde	9.85	Electrical Engineering	1999-11-20
8	3	103	Anushree Gattani	9.92	Computer Science	2001-08-10
9	4	104	Shreeja Barve	9.65	Chemical Engineering	2000-02-28
10	5	105	Madhu Pawar	9.78	Civil Engineering	2002-04-17
16	6	103	Akash Patel	9.6	Mechanical Engineering	2001-03-25
17	7	104	Priya Sharma	9.72	Electronics and Communication	2000-09-12
18	4	105	Anju Singh	9.45	Information Technology	2001-01-05
19	1	102	Drishti Gupta	9.88	Computer Science	1999-07-31

9 rows in set (0.00 sec)

Training Table:

```
mysql> SELECT * FROM Training;
```

T_id	Tcompany_name	T_Fee	T_date
101	Tech Solutions Inc.	575000	2019-12-17
102	Data Innovators Ltd.	750000	2022-05-06
103	Cloud Experts Corp.	600000	2024-04-03
104	Software Wizards LLC	650000	2021-04-22
105	Network Systems Ltd.	805000	2019-01-01

5 rows in set (0.00 sec)

PlacementDrive Table:

```
mysql> SELECT * FROM PlacementDrive;
```

Drive_id	Pcompany_name	package	location
1	ABC Technologies	800000	New York
2	XYZ Corporation	750000	San Francisco
3	Tech Innovators Inc.	900000	Seattle
4	Global Solutions Ltd.	700000	London
5	Data Experts LLC	850000	Bangalore
6	XYZ Corporation	800000	Mumbai
7	Persistent Systems	700000	Pune

7 rows in set (0.00 sec)

Assignment Queries:

1. Find the Student details and Placement details using NATURAL JOIN.

Query:

select \* from Student natural join PlacementDrive;

Output:

```
mysql> select * from Student natural join PlacementDrive;
```

drive_id	s_id	T_id	s_name	cgpa	s_branch	s_dob	Pcompany_name	package	location
1	6	101	Siddhi Borse	9.75	Computer Science	2000-05-15	ABC Technologies	800000	New York
2	7	102	Dhanashree Borde	9.85	Electrical Engineering	1999-11-20	XYZ Corporation	750000	San Francisco
3	8	103	Anushree Gattani	9.92	Computer Science	2001-08-10	Tech Innovators Inc.	900000	Seattle
4	9	104	Shreeja Barve	9.65	Chemical Engineering	2000-02-28	Global Solutions Ltd.	700000	London
5	10	105	Madhu Pawar	9.78	Civil Engineering	2002-04-17	Data Experts LLC	850000	Bangalore
6	16	103	Akash Patel	9.6	Mechanical Engineering	2001-03-25	XYZ Corporation	800000	Mumbai
7	17	104	Priya Sharma	9.72	Electronics and Communication	2000-09-12	Persistent Systems	700000	Pune
4	18	105	Anju Singh	9.45	Information Technology	2001-01-05	Global Solutions Ltd.	700000	London
1	19	102	Drishti Gupta	9.88	Computer Science	1999-07-31	ABC Technologies	800000	New York

9 rows in set (0.00 sec)

2. Find all the student details with company\_name who have conducted in same drive.

Query:

SELECT s1.drive\_id, s1.s\_id, s1.s\_name, s1.cgpa, s1.s\_branch, s1.s\_dob FROM Student s1 JOIN Student s2 ON s1.drive\_id = s2.drive\_id AND s1.s\_id <> s2.s\_id JOIN PlacementDrive pd ON s1.drive\_id = pd.drive\_id;

Output:

```
mysql> SELECT s1.drive_id, s1.s_id, s1.s_name, s1.cgpa, s1.s_branch, s1.s_dob, pd.Pcompany_name FROM Student s1 JOIN Student s2 ON s1.drive_id = s2.drive_id AND s1.s_id <> s2.s_id JOIN PlacementDrive pd ON s1.drive_id = pd.drive_id;
```

drive_id	s_id	s_name	cgpa	s_branch	s_dob	Pcompany_name
1	19	Drishti Gupta	9.88	Computer Science	1999-07-31	ABC Technologies
4	18	Anju Singh	9.45	Information Technology	2001-01-05	Global Solutions Ltd.
4	9	Shreeja Barve	9.65	Chemical Engineering	2000-07-28	Global Solutions Ltd.
1	6	Siddhi Borse	9.75	Computer Science	2000-05-15	ABC Technologies

4 rows in set (0.00 sec)

3. List all the Student name and Student branch of Student having package 7 LPA.....

Query:

```
select s.s_name,s.s_branch, from Student s join PlacementDrive p on s.drive_id=p.drive_id where p.package=700000;
```

Output:

```
mysql> select s.s_name,s.s_branch from Student s join PlacementDrive p on s.drive_id=p.drive_id where p.package=700000;
```

s_name	s_branch
Shreeja Barve	Chemical Engineering
Priya Sharma	Electronics and Communication
Anju Singh	Information Technology

3 rows in set (0.00 sec)

4. List all the student names ,company\_name having T\_fee more than 700000.

Query:

```
select s.s_name,t.Tcompany_name from Student s join Training t on s.T_id=t.T_id where T_Fee>700000;
```

Output:

```
mysql> select s.s_name,t.Tcompany_name from Student s join Training t on s.T_id=t.T_id where T_Fee>700000;
```

s_name	Tcompany_name
Madhu Pawar	Network Systems Ltd.
Anju Singh	Network Systems Ltd.
Drishti Gupta	Data Innovators Ltd.

3 rows in set (0.00 sec)

5. Display all training details attended by “Siddhi Borse” in year 2019.

Query:

```
select * from Training t join Student s. on t.T_id=s.T_id where s.s_name='Siddhi Borse' and t.T_date='2019-12-17';
```

Output:

```
mysql> select * from Training t join Student s on t.T_id=s.T_id where s.s_name='Siddhi Borse' and t.T_date='2019-12-17';
```

T_id	Tcompany_name	T_Fee	T_date	s_id	drive_id	T_id	s_name	cgpa	s_branch	s_dob
101	Tech Solutions Inc.	575000	2019-12-17	6	1	101	Siddhi Borse	9.75	Computer Science	2000-05-15

1 row in set (0.00 sec)

6. List the total number of companies who conduct training before 2020.

Query:

```
select Tcompany_name,T_id from Training where T_date<'2020-12-31';
```

Output:

```
mysql> select Tcompany_name,T_id from Training where T_date<'2020-12-31';
+-----+-----+
| Tcompany_name | T_id |
+-----+-----+
| Tech Solutions Inc. | 101 |
| Network Systems Ltd. | 105 |
+-----+-----+
2 rows in set (0.00 sec)
```

7. List the students name with company 'XYZ Corporation' and location 'Mumbai'.

Query:

```
SELECT s.s_name FROM Student s JOIN PlacementDrive p ON s.drive_id = p.drive_id WHERE
p,Pcompany_name='XYZ Corporation' and p.location='Mumbai';
```

Output:

```
mysql> select s.s_name from Student s join PlacementDrive p on s.drive_id=p.drive_id where p.Pcompany_name='XYZ
Corporation' and p.location='Mumbai';
+-----+
| s_name |
+-----+
| Akash Patel |
+-----+
1 row in set (0.00 sec)
```

8. Find the names of all Students who have joined 'Tech Solutions Inc.' training in 2015 .

Query for maximum cgpa:

```
SELECT s_name FROM Student s join Training t on s.T_id=t.T_id where t.Tcompany_name='Tech
Solutions Inc.' and year(t.T_date)=2019;
```

Output:

```
mysql> select s.s_name from Student s join Training t on s.T_id=t.T_id where t.Tcompany_name='Tech Solutions Inc.' and year(t.T_date)=2019;
+-----+
| s_name |
+-----+
| Siddhi Borse |
+-----+
1 row in set (0.00 sec)
```

9. Create a view showing the Student and Training details.

Query:

```
create view studtrain as select
Student.s_id,Student.s_name,Student.drive_id,Student.T_id,Training.Tcompany_name,Trainig.T_F
ee from Student,Training where Student.T_id=Training.T_id;
```

Output:

```
mysql> create view studtrain as select Student.s_id,Student.s_name,Student.drive_id,Student.T_id,Training.Tcompany_name,Training.T_Fee from Student,Training where Student.T_id=
Training.T_id;
Query OK, 0 rows affected (0.03 sec)

mysql> select * from studtrain;
+-----+-----+-----+-----+-----+-----+
| s_id | s_name | drive_id | T_id | Tcompany_name | T_Fee |
+-----+-----+-----+-----+-----+-----+
| 6 | Siddhi Borse | 1 | 101 | Tech Solutions Inc. | 575000 |
| 7 | Dhanashree Borde | 2 | 102 | Data Innovators Ltd. | 750000 |
| 8 | Anushree Gattani | 3 | 103 | Cloud Experts Corp. | 600000 |
| 9 | Shreeja Barve | 4 | 104 | Software Wizards LLC | 650000 |
| 10 | Madhu Pawar | 5 | 105 | Network Systems Ltd. | 805000 |
| 16 | Akash Patel | 6 | 103 | Cloud Experts Corp. | 600000 |
| 17 | Priya Sharma | 7 | 104 | Software Wizards LLC | 650000 |
| 18 | Anju Singh | 4 | 105 | Network Systems Ltd. | 805000 |
| 19 | Drishti Gupta | 1 | 102 | Data Innovators Ltd. | 750000 |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.01 sec)
```

10. Perform Manipulation on simple view-Insert, update, delete, drop view.

Create Simple View Query:

```
create view simplestud as select * from Student;
```

### Output:

```
mysql> create view simplestud as select * from Student;
Query OK, 0 rows affected (0.04 sec)

mysql> select * from simplestud;
+-----+-----+-----+-----+-----+-----+
| s_id | drive_id | T_id | s_name | cgpa | s_branch | s_dob |
+-----+-----+-----+-----+-----+-----+
| 6 | 1 | 101 | Siddhi Borse | 9.75 | Computer Science | 2000-05-15 |
| 7 | 2 | 102 | Dhanashree Borde | 9.85 | Electrical Engineering | 1999-11-20 |
| 8 | 3 | 103 | Anushree Gattant | 9.92 | Computer Science | 2001-08-10 |
| 9 | 4 | 104 | Shreeja Barve | 9.65 | Chemical Engineering | 2000-02-28 |
| 10 | 5 | 105 | Madhu Pawar | 9.78 | Civil Engineering | 2002-04-17 |
| 16 | 6 | 103 | Akash Patel | 9.6 | Mechanical Engineering | 2001-03-25 |
| 17 | 7 | 104 | Priya Sharma | 9.72 | Electronics and Communication | 2000-09-12 |
| 18 | 4 | 105 | Anju Singh | 9.45 | Information Technology | 2001-01-05 |
| 19 | 1 | 102 | Drishti Gupta | 9.88 | Computer Science | 1999-07-31 |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.00 sec)
```

### Insert Query:

insert into simplestud values(20,5,103,'Sampada Kulkarni',9.56,'Computer Engineering','2000-12-29');

### Output:

```
mysql> insert into simplestud values(20,5,103,'Sampada Kulkarni',9.56,'Computer Engineering','2000-12-29');
Query OK, 1 row affected (0.04 sec)
```

### Update Query:

update simplestud set cgpa=9.32 where cgpa between 9.6 and 9.7;

### Output:

```
mysql> update simplestud set cgpa=9.32 where cgpa between 9.6 and 9.7;
Query OK, 2 rows affected (0.03 sec)
Rows matched: 2 Changed: 2 Warnings: 0
```

### Delete Query:

delete from simplestud where s\_id=7;

### Output:

```
mysql> delete from simplestud where s_id=7;
Query OK, 1 row affected (0.03 sec)
```

### Output after insert, update and delete :

```
mysql> select * from simplestud;
+-----+-----+-----+-----+-----+-----+
| s_id | drive_id | T_id | s_name | cgpa | s_branch | s_dob |
+-----+-----+-----+-----+-----+-----+
| 6 | 1 | 101 | Siddhi Borse | 9.75 | Computer Science | 2000-05-15 |
| 8 | 3 | 103 | Anushree Gattant | 9.92 | Computer Science | 2001-08-10 |
| 9 | 4 | 104 | Shreeja Barve | 9.32 | Chemical Engineering | 2000-02-28 |
| 10 | 5 | 105 | Madhu Pawar | 9.78 | Civil Engineering | 2002-04-17 |
| 16 | 6 | 103 | Akash Patel | 9.32 | Mechanical Engineering | 2001-03-25 |
| 17 | 7 | 104 | Priya Sharma | 9.72 | Electronics and Communication | 2000-09-12 |
| 18 | 4 | 105 | Anju Singh | 9.45 | Information Technology | 2001-01-05 |
| 19 | 1 | 102 | Drishti Gupta | 9.88 | Computer Science | 1999-07-31 |
| 20 | 5 | 103 | Sampada Kulkarni | 9.56 | Computer Engineering | 2000-12-29 |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.00 sec)
```

### Drop Query:

drop view simplestud;

### Output:

```
mysql> drop view simplestud;
Query OK, 0 rows affected (0.00 sec)
```