

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

```
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	4	4	Ujwal	8.5	IT	2003-08-25	Phone pe	28	Pune
2	1	3	Ayush	9.2	Computer	2003-01-23	Amazon	44	Banglore
2	3	3	Om	9.1	Computer	2003-06-07	Amazon	44	Banglore
2	6	3	Bhagyashree	9.2	IT	2003-09-06	Amazon	44	Banglore
3	2	5	Durvesh	8.9	IT	2003-12-27	Mastercard	16	Mumbai
3	5	5	Atharva	8.6	Computer	2003-07-26	Mastercard	16	Mumbai
3	7	1	David	8.9	Computer	2003-05-15	Mastercard	16	Mumbai

7 rows in set (0.00 sec)

2. Find all the student details with company_name who have conducted in same drive

```
SELECT s.*, pd.Pcompany_name FROM Student s LEFT JOIN (SELECT DISTINCT Drive_id,
Pcompany_name FROM PlacementDrive) pd ON s.Drive_id = pd.Drive_id;
```

```
mysql> SELECT s.*, pd.Pcompany_name FROM Student s INNER JOIN (SELECT DISTINCT Drive_id,
```

s_id	Drive_id	T_id	s_name	CGPA	s_branch	s_dob	Pcompany_name
4	1	4	Ujwal	8.5	IT	2003-08-25	Phone pe
1	2	3	Ayush	9.2	Computer	2003-01-23	Amazon
3	2	3	Om	9.1	Computer	2003-06-07	Amazon
6	2	3	Bhagyashree	9.2	IT	2003-09-06	Amazon
2	3	5	Durvesh	8.9	IT	2003-12-27	Mastercard
5	3	5	Atharva	8.6	Computer	2003-07-26	Mastercard
7	3	1	David	8.9	Computer	2003-05-15	Mastercard

7 rows in set (0.00 sec)

3. List all the Student name and Student branch of Student having package 16 LPA

```
SELECT s_name, s_branch, PlacementDrive.package FROM Student INNER JOIN
PlacementDrive ON Student.Drive_id = PlacementDrive.Drive_id WHERE package = 16
```

```
mysql> SELECT s_name, s_branch, Pla
```

s_name	s_branch	package
Durvesh	IT	16
Atharva	Computer	16
David	Computer	16

3 rows in set (0.00 sec)

4. List all the student names ,company_name having T_fee more than 20000

```
SELECT s.s_name, t.Tcompany_name, t.T_fee FROM Student s INNER JOIN Training t ON
s.T_id = t.T_id WHERE t.T_fee > 4000;
```

```
mysql> SELECT s.s_name, t.Tcompany_name,
+-----+-----+-----+
| s_name      | Tcompany_name | T_fee |
+-----+-----+-----+
| Ayush        | Microsoft     | 15000 |
| Om           | Microsoft     | 15000 |
| Bhagyashree  | Microsoft     | 15000 |
| Durvesh      | AWS           | 5000  |
| Atharva      | AWS           | 5000  |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

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

```
SELECT s.s_name, t.* FROM Training t INNER JOIN Student s ON t.T_id = s.T_id WHERE
s.s_name = 'Bhagyashree' and t.T_year = 2019;
```

```
mysql> SELECT s.s_name, t.* FROM Training t INNER JOIN St
+-----+-----+-----+-----+-----+
| s_name      | T_id | Tcompany_name | T_fee | T_year |
+-----+-----+-----+-----+-----+
| Bhagyashree | 3    | Microsoft     | 15000 | 2019   |
+-----+-----+-----+-----+-----+
1 row in set (0.01 sec)
```

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

```
mysql> SELECT COUNT(T_id) FROM Training t WHERE t.T_year < 2020;
+-----+
| COUNT(T_id) |
+-----+
| 3           |
+-----+
1 row in set (0.00 sec)
```

7. List the students name with company 'Amazon' and location 'Bangalore'

```
SELECT s.s_name, pd.Pcompany_name FROM Student s INNER JOIN PlacementDrive pd ON  
pd.Drive_id = s.Drive_id WHERE pd.Pcompany_name='Amazon' AND pd.location = 'Bangalore';
```

```
mysql> SELECT s.s_name, pd.Pcompany_name FROM Student s INNER JOIN PlacementDrive pd ON  
pd.Drive_id = s.Drive_id WHERE pd.Pcompany_name='Amazon' AND pd.location = 'Bangalore';  
+-----+-----+  
| s_name | Pcompany_name |  
+-----+-----+  
| Ayush  | Amazon        |  
| Om     | Amazon        |  
| Bhagyashree | Amazon        |  
+-----+-----+  
3 rows in set (0.00 sec)
```

8. Find the names of all Students who have joined 'Microsoft ' training in 2015 .

```
SELECT s.s_name , t.Tcompany_name FROM Student s INNER JOIN Training t ON s.T_id =  
t.T_id WHERE t.Tcompany_name = 'Microsoft' and t.T_year = 2015;
```

```
+-----+-----+  
| s_name | Tcompany_name |  
+-----+-----+  
| Ayush  | Microsoft      |  
| Om     | Microsoft      |  
| Bhagyashree | Microsoft      |  
+-----+-----+  
3 rows in set (0.00 sec)
```

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

```
CREATE VIEW StudentTrainingView AS SELECT s.s_id, s.s_name, s.CGPA, s.s_branch, s.s_dob, t.T_id,  
t.Tcompany_name FROM Student s JOIN Training t ON s.T_id = t.T_id;
```

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

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

CREATE A VIEW :

CREATE VIEW studView AS SELECT s.s_id, s.s_name, s.CGPA, s.s_branch, s.s_dob FROM Student s;

```
mysql> CREATE VIEW studView AS SELECT s.s_id, s.s_name, s.CGPA, s.s_branch, s.s_dob FROM Student s;
Query OK, 0 rows affected (0.01 sec)
```

INSERT NEW VALUE :

INSERT INTO studView VALUES(8, 'New Student', 8.2, 'ENTC', '2004-08-15');

```
mysql> INSERT INTO studView VALUES(8, 'New Student', 8.2, 'ENTC', '2004-08-15');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from studView;
```

s_id	s_name	CGPA	s_branch	s_dob
1	Ayush	9.2	Computer	2003-01-23
2	Durvesh	8.9	IT	2003-12-27
3	Om	9.1	Computer	2003-06-07
4	Ujwal	8.5	IT	2003-08-25
5	Atharva	8.6	Computer	2003-07-26
6	Bhagyashree	9.2	IT	2003-09-06
7	David	8.9	Computer	2003-05-15
8	New Student	8.2	ENTC	2004-08-15

8 rows in set (0.00 sec)

UPDATE A RECORD :

UPDATE studView SET s_branch='IT', s_dob='2003-08-26' WHERE s_id = 3;

```
mysql> select * from studView;
```

s_id	s_name	CGPA	s_branch	s_dob
1	Ayush	9.2	Computer	2003-01-23
2	Durvesh	8.9	IT	2003-12-27
3	Om	9.1	IT	2003-08-26
4	Ujwal	8.5	IT	2003-08-25
5	Atharva	8.6	Computer	2003-07-26
6	Bhagyashree	9.2	IT	2003-09-06
7	David	8.9	Computer	2003-05-15
8	New Student	8.2	ENTC	2004-08-15

DELETE A RECORD :

```
mysql> DELETE FROM studView WHERE s_id = 7;  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from studView;
```

s_id	s_name	CGPA	s_branch	s_dob
1	Ayush	9.2	Computer	2003-01-23
2	Durvesh	8.9	IT	2003-12-27
3	Om	9.1	IT	2003-08-26
4	Ujwal	8.5	IT	2003-08-25
5	Atharva	8.6	Computer	2003-07-26
6	Bhagyashree	9.2	IT	2003-09-06
8	New Student	8.2	ENTC	2004-08-15

```
7 rows in set (0.00 sec)
```

DELETE A VIEW :

```
mysql> DROP VIEW IF EXISTS StudentTrainingView;  
Query OK, 0 rows affected (0.03 sec)
```