

## ASSIGNMENT 3

### 1. Find Employee details and Department details using NATURAL JOIN

mysql> select e.emp\_fname, d.dept\_name from Employee as e Natural Join Dept as d;

```
mysql> select e.emp_fname, d.dept_name from Employee as e Natural Join Dept as d;
+-----+-----+
| emp_fname | dept_name |
+-----+-----+
| Madhura   | Marketing |
| Purti     | Marketing |
| Anushree  | HR        |
| Shantanu  | Supporting|
| John      | HR        |
+-----+-----+
5 rows in set (0.00 sec)
```

### 2. Find the emp\_fname,Emp\_position,location,Emp\_JoinDate who have same Dept id.

```
Select e.emp_fname,
       e.emp_postion,
       d.dept_location,
       e.emp_joindate
From Employee e
Inner Join Dept d on e.dept_id = d.dept_id
where e.dept_id in (select dept_id from Employee group by dept_id having count(emp_id) > 1)
order by e.dept_id, e.emp_fname;
```

```
mysql> select e.emp_fname, e.emp_postion, d.dept_location , e.emp_joindate from Employee e Inner Join Dept d on e.dept_id = d.dept_id where e.dept_id
in (select dept_id from Employee group by dept_id having count(emp_id) > 1) order by e.dept_id, e.emp_fname;
+-----+-----+-----+-----+
| emp_fname | emp_postion | dept_location | emp_joindate |
+-----+-----+-----+-----+
| Madhura   | Manager     | Pune         | 2026-06-15   |
| Purti     | Assisant Manager | Pune         | 2026-07-15   |
+-----+-----+-----+-----+
2 rows in set (0.01 sec)
```

### 3. Find the Employee details ,Proj\_id,Project cost who does not have Project location as 'Banglore'.

```
Select
  e.emp_id,
  e.emp_fname,
  e.emp_lname,
  e.emp_postion,
  e.emp_salary,
  p.proj_id,
  p.proj_cost
From
  Employee e
Left Join
  Project p on e.dept_id = p.dept_id
```

where p.proj\_location IS NULL or p.proj\_location <> 'Banglore';

```
mysql> select distinct e.emp_id, e.emp_fname, e.emp_lname, e.emp_postion, e.emp_salary, p.proj_id, p.proj_cost from Employee e Left Join Project p on
e.dept_id = p.dept_id where p.proj_location IS NULL or p.proj_location <> 'Banglore';
```

emp_id	emp_fname	emp_lname	emp_postion	emp_salary	proj_id	proj_cost
1	Madhura	Pawar	Manager	200000	1	10000
2	Purti	Patil	Assisant Manager	100000	1	10000
1	Madhura	Pawar	Manager	200000	2	30000
2	Purti	Patil	Assisant Manager	100000	2	30000
1	Madhura	Pawar	Manager	200000	3	25000
2	Purti	Patil	Assisant Manager	100000	3	25000
10	Shantanu	Patil	Clerk	33000	NULL	NULL
15	John	Doe	HR	50000	NULL	NULL

8 rows in set (0.00 sec)

#### 4. Find Department Name ,employee name, Emp\_position for which project year is 2020.

Select

```
d.dept_name,
CONCAT(e.emp_fname, ' ', e.emp_lname) AS employee_name,
e.emp_postion
```

from Employee e

Inner Join

```
Dept d ON e.dept_id = d.dept_id
```

Inner Join

```
Project p ON e.dept_id = p.dept_id
```

where p.proj\_year = 2020;

```
+-----+-----+-----+
| dept_name | employee_name | emp_postion |
+-----+-----+-----+
| Marketing | Madhura Pawar | Manager      |
| Marketing | Purti Patil   | Assisant Manager |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

#### 5. Display emp\_position,D\_name who have Project cost >30000.

Select

```
e.emp_postion,
d.dept_name
```

from Employee e

Inner Join

```
Dept d ON e.dept_id = d.dept_id
```

Inner Join

```
Project p ON e.dept_id = p.dept_id
```

where p.proj\_cost>30000;

```
+-----+-----+
| emp_postion | dept_name |
+-----+-----+
| HR Manager  | HR        |
| HR Manager  | HR        |
+-----+-----+
```

**6. Find the names of all the Projects that started in the year 2021.**

```
mysql> select proj_name from Project where proj_year=2021;
+-----+
| proj_name |
+-----+
| Upcoming sponsors2 |
+-----+
1 row in set (0.00 sec)
```

**7. List the Dept\_name having no\_of\_emp=2.**

Select  
    d.dept\_name  
from Dept d  
inner join Employee e ON d.dept\_id = e.dept\_id  
group by d.dept\_id, d.dept\_name  
having count(e.emp\_id) = 2;

```
mysql> select d.dept_name from Dept d inner join Employee e ON d.dept_id = e.dept_id group by d.dept_id, d.dept_name having count(e.emp_id) = 2;
+-----+
| dept_name |
+-----+
| Marketing |
+-----+
1 row in set (0.01 sec)
```

**8. Display the total number of employee who have joined any project before 2021.**

Select  
    count(distinct e.emp\_id) as total\_emp  
from Employee e  
inner join Project p on e.dept\_id = p.dept\_id where p.proj\_year < 2021;

```
mysql> select count(distinct e.emp_id) as total_emp from Employee e inner join Project p on e.dept_id = p.dept_id where p.proj_year < 2021;
+-----+
| total_emp |
+-----+
|          2 |
+-----+
1 row in set (0.01 sec)
```

## 9. Create a view showing the employee and Department details.

```
CREATE VIEW DEView AS
SELECT d.dept_id, d.dept_name, d.dept_location,
       e.emp_id, e.emp_fname, e.emp_lname, e.emp_salary
FROM
  Dept d
LEFT JOIN
  Employee e ON d.dept_id = e.dept_id;
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> Select * from DEView;
```

dept_id	dept_name	dept_location	emp_id	emp_fname	emp_lname	emp_salary
101	Marketing	Pune	1	Madhura	Pawar	200000
101	Marketing	Pune	2	Purti	Patil	100000
103	HR	Banglore	3	Anushree	Gattani	165000
105	Supporting	Pune	10	Shantanu	Patil	33000
106	HR	Building A	15	John	Doe	50000
102	Sales	Pune	NULL	NULL	NULL	NULL

5 rows in set (0.00 sec)

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

```
mysql> Select * from EmployeeView;
```

emp_id	emp_fname	emp_lname	emp_salary
1	Madhura	Pawar	200000
2	Purti	Patil	100000
3	Anushree	Gattani	165000
10	Shantanu	Patil	33000
15	John	Doe	50000

5 rows in set (0.00 sec)

### Insert into View

```
mysql> Insert into EmployeeView (emp_id, emp_fname, emp_lname, emp_salary) values (5,'Anjali', 'Rambhad', 100000);
Query OK, 1 row affected (0.05 sec)
```

```
mysql> Select * from EmployeeView;
```

emp_id	emp_fname	emp_lname	emp_salary
1	Madhura	Pawar	200000
2	Purti	Patil	100000
3	Anushree	Gattani	165000
5	Anjali	Rambhad	100000
10	Shantanu	Patil	33000
15	John	Doe	50000

6 rows in set (0.00 sec)

## Update View

```
mysql> UPDATE EmployeeView
      -> SET emp_salary = 80000
      -> WHERE emp_id = 15;
Query OK, 1 row affected (0.04 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> Select * from EmployeeView;
+-----+-----+-----+-----+
| emp_id | emp_fname | emp_lname | emp_salary |
+-----+-----+-----+-----+
|      1 | Madhura   | Pawar     | 200000     |
|      2 | Purti     | Patil     | 100000     |
|      3 | Anushree  | Gattani   | 165000     |
|      5 | Anjali    | Rambhad   | 100000     |
|     10 | Shantanu  | Patil     | 33000      |
|     15 | John      | Doe       | 80000      |
+-----+-----+-----+-----+
6 rows in set (0.01 sec)
```

## Delete View

```
mysql> Delete from EmployeeView where emp_id=5;
Query OK, 1 row affected (0.05 sec)

mysql> Select * from EmployeeView;
+-----+-----+-----+-----+
| emp_id | emp_fname | emp_lname | emp_salary |
+-----+-----+-----+-----+
|      1 | Madhura   | Pawar     | 200000     |
|      2 | Purti     | Patil     | 100000     |
|      3 | Anushree  | Gattani   | 165000     |
|     10 | Shantanu  | Patil     | 33000      |
|     15 | John      | Doe       | 80000      |
+-----+-----+-----+-----+
5 rows in set (0.01 sec)
```

## Drop View

```
mysql> Drop View Employeeview;
Query OK, 0 rows affected (0.00 sec)

mysql> Select * from EmployeeView;
ERROR 1146 (42S02): Table 'te31449_db.EmployeeView' doesn't exist
mysql>
```