

Assignment 03

Roll No: 31412

01) Find Employee details and Department details using NATURAL JOIN.

MariaDB [te31412_db]> select * from employee NATURAL JOIN department;

```
+-----+-----+-----+-----+-----+-----+-----+
| department_id | emp_id | emp_FName | emp_LName | emp_possition | emp_salary | emp_joinDate | department_name | location |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | 301 | Pranay | Chavhan | SDE1 | 2000000.00 | 2023-04-08 | Computer | Pune |
| 2 | 302 | Durvesh | Chopade | HR | 2500000.00 | 2020-01-23 | IT | Mumbai |
| 2 | 303 | Ayush | Bulbule | SDE2 | 1500000.00 | 2019-02-23 | IT | Mumbai |
| 3 | 304 | Om | Bulbule | SDE2 | 2500000.00 | 2019-02-25 | EnTc | Mumbai |
| 5 | 305 | Ujwal | Bulbule | Intern | 500000.00 | 2019-01-25 | Computer | Nagpur |
| 5 | 306 | Aditya | Durge | Intern | 300000.00 | 2009-01-25 | Computer | Nagpur |
| 5 | 307 | Poonam | Jadhav | Manager | 1000000.00 | 2009-01-05 | Computer | Nagpur |
| 2 | 308 | Pranay | Jadhav | Intern | 100000.00 | 2010-01-05 | IT | Mumbai |
+-----+-----+-----+-----+-----+-----+-----+
```

8 rows in set (0.001 sec)

02) Find the emp_fname,Emp_position,location,Emp_JoinDate who have same Dept id.

MariaDB [te31412_db]> select e.emp_FName, e.emp_possition, d.location, e.emp_joinDate

-> from employee e

-> join department d

-> on e.department_id = d.department_id

-> where e.department_id in(

-> select department_id

-> from employee

-> group by department_id

-> having count(*)>1

->);

```
+-----+-----+-----+-----+
| emp_FName | emp_possition | location | emp_joinDate |
+-----+-----+-----+-----+
| Durvesh | HR | Mumbai | 2020-01-23 |
| Ayush | SDE2 | Mumbai | 2019-02-23 |
| Ujwal | Intern | Nagpur | 2019-01-25 |
| Aditya | Intern | Nagpur | 2009-01-25 |
| Poonam | Manager | Nagpur | 2009-01-05 |
| Pranay | Intern | Mumbai | 2010-01-05 |
+-----+-----+-----+-----+
```

6 rows in set (0.002 sec)

03) Find the Employee details ,Proj_id,Project cost who does not have Project location as 'Hyderabad'.

mysql> SELECT e.emp_id, e.emp_FName, e.emp_LName, e.emp_position, e.emp_joinDate, p.project_id, p.project_cost

-> FROM employee e

-> INNER JOIN project p ON e.department_id = p.department_id

-> WHERE p.project_location <> 'Hyderabad';

```
+-----+-----+-----+-----+-----+-----+-----+
| emp_id | emp_FName | emp_LName | emp_position | emp_joinDate | project_id | project_cost |
+-----+-----+-----+-----+-----+-----+-----+
| 301 | Pranay | Chavhan | SDE1 | 2023-04-08 | 4001 | 100000.00 |
| 302 | Durvesh | Chopade | HR | 2020-01-23 | 4002 | 500000.00 |
+-----+-----+-----+-----+-----+-----+-----+
```

303	Ayush	Bulbule	SDE2	2019-02-23	4002	500000.00
308	Pranay	Jadhav	Intern	2010-01-05	4002	500000.00
304	Om	Bulbule	SDE2	2019-02-25	4003	500000.00
305	Ujwal	Bulbule	Intern	2019-01-25	4005	500000.00
306	Aditya	Durge	Intern	2009-01-25	4005	500000.00
307	Poonam	Jadhav	Manager	2009-01-05	4005	500000.00

8 rows in set (0.00 sec)

04) Find Department Name ,employee name, Emp_position for which project year is 2020.

```
mysql> SELECT d.department_name, e.emp_FName, e.emp_position
-> FROM department d
-> JOIN employee e ON d.department_id = e.department_id
-> JOIN project p ON d.department_id = p.department_id
-> WHERE p.project_year = 2010;
```

department_name	emp_FName	emp_position
Computer	Pranay	SDE1

1 row in set (0.00 sec)

05) Display emp_position,D_name who have Project cost >30000

```
mysql> SELECT e.emp_position, d.department_name
-> FROM employee e
-> INNER JOIN department d ON e.department_id = d.department_id
-> INNER JOIN project p ON e.department_id = p.department_id
-> WHERE p.project_cost > 30000;
```

emp_position	department_name
SDE1	Computer
HR	IT
SDE2	IT
Intern	IT
SDE2	EnTc
Intern	Computer
Intern	Computer
Manager	Computer

8 rows in set (0.00 sec)

06) Find the names of all the Projects that started in the year 2015.

```
mysql> SELECT project_name
-> FROM project
-> INNER JOIN employee ON project.department_id = employee.department_id
-> WHERE project_year = 2010;
```

project_name
projectX

1 row in set (0.00 sec)

07) List the Dept_name having no_of_emp=10

```
SELECT d.department_name
-> FROM department d
-> INNER JOIN (
->     SELECT department_id, COUNT(*) AS no_of_emp
->     FROM employee
->     GROUP BY department_id
->     HAVING no_of_emp = 3
-> ) emp_count ON d.department_id = emp_count.department_id;
```

```
+-----+
| department_name |
+-----+
| IT              |
| Computer        |
+-----+
2 rows in set (0.00 sec)
```

08) Display the total number of employee who have joined any project before 2009

```
mysql> SELECT COUNT(*) AS total_employee_count
-> FROM employee
-> INNER JOIN project ON employee.department_id = project.department_id
-> WHERE project.project_year < 2009;
```

```
+-----+
| total_employee_count |
+-----+
| 7 |
+-----+
1 row in set (0.01 sec)
```

09) Create a view showing the employee and Department details.

```
mysql> CREATE VIEW employee_department_view AS
-> SELECT e.emp_id, e.emp_FName, e.emp_LName, e.emp_position, e.emp_salary, e.emp_joinDate,
->     d.department_id, d.department_name, d.location
-> FROM employee e
-> JOIN department d ON e.department_id = d.department_id;
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> select * from employee_department_view;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_id | emp_FName | emp_LName | emp_position | emp_salary | emp_joinDate | department_id | department_name | location |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 301 | Pranay | Chavhan | SDE1 | 2000000.00 | 2023-04-08 | 1 | Computer | Pune |
| 302 | Durvesh | Chopade | HR | 2500000.00 | 2020-01-23 | 2 | IT | Mumbai |
| 303 | Ayush | Bulbule | SDE2 | 1500000.00 | 2019-02-23 | 2 | IT | Mumbai |
| 304 | Om | Bulbule | SDE2 | 2500000.00 | 2019-02-25 | 3 | EnTc | Mumbai |
| 305 | Ujwal | Bulbule | Intern | 500000.00 | 2019-01-25 | 5 | Computer | Nagpur |
| 306 | Aditya | Durge | Intern | 300000.00 | 2009-01-25 | 5 | Computer | Nagpur |
| 307 | Poonam | Jadhav | Manager | 1000000.00 | 2009-01-05 | 5 | Computer | Nagpur |
| 308 | Pranay | Jadhav | Intern | 100000.00 | 2010-01-05 | 2 | IT | Mumbai |
+-----+-----+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

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

```
mysql> UPDATE employee_department_view
```

```
-> SET emp_salary = 1500000.00
```

```
-> WHERE emp_id = 301;
```

```
Query OK, 1 row affected (0.01 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> SELECT * FROM employee_department_view;
```

```
+-----+-----+-----+-----+-----+-----+-----+
| emp_id | emp_FName | emp_LName | emp_position | emp_salary | emp_joinDate | department_id | department_name | location |
+-----+-----+-----+-----+-----+-----+-----+
| 301 | Pranay | Chavhan | SDE1 | 1500000.00 | 2023-04-08 | 1 | Computer | Pune |
| 302 | Durvesh | Chopade | HR | 2500000.00 | 2020-01-23 | 2 | IT | Mumbai |
| 303 | Ayush | Bulbule | SDE2 | 1500000.00 | 2019-02-23 | 2 | IT | Mumbai |
| 304 | Om | Bulbule | SDE2 | 2500000.00 | 2019-02-25 | 3 | EnTc | Mumbai |
| 305 | Ujwal | Bulbule | Intern | 500000.00 | 2019-01-25 | 5 | Computer | Nagpur |
| 306 | Aditya | Durge | Intern | 300000.00 | 2009-01-25 | 5 | Computer | Nagpur |
| 307 | Poonam | Jadhav | Manager | 1000000.00 | 2009-01-05 | 5 | Computer | Nagpur |
| 308 | Pranay | Jadhav | Intern | 100000.00 | 2010-01-05 | 2 | IT | Mumbai |
+-----+-----+-----+-----+-----+-----+-----+
```

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

```
mysql> DROP VIEW employee_department_view;
```

```
Query OK, 0 rows affected (0.01 sec)
```