Institute of Computer Technology B. Tech. Computer Science and Engineering

Semester: III

Sub: Database Management System

Course Code: 2CSE301

Practical Number:7

Objective:

Perform queries using joins, sub query, set operations, group by and having.

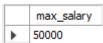
Queries:

1. Write an SQL query to display maximum salary from employee table.

Code:

SELECT MAX(salary) AS max_salary FROM Employee;

Output:



2. Write an SQL query to display employee name who is taking maximum salary.

Code:

SELECT ename FROM Employee WHERE salary = (SELECT MAX(salary) FROM Employee);

Output:



3. Write an SQL query to display second highest salary from employee table?

Code:

SELECT MAX(salary) AS second_highest_salary FROM Employee

WHERE salary < (SELECT MAX(salary) FROM Employee);

Output:

```
second_highest_salary

40000
```

4. Write an SQL query to display employee name who is taking second highest salary.

Code:

```
SELECT ename FROM Employee

WHERE salary = (
SELECT MAX(salary) FROM Employee

WHERE salary < (SELECT MAX(salary) FROM Employee)
);
```

Output:

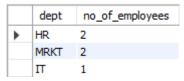


5. Write an SQL query to display all the dept names along with no of employees working in it.

Code:

SELECT dept, COUNT(eid) AS no_of_employees FROM Employee GROUP BY dept;

Output:



6. Write an sql query to display all the employee names where no. of employees are less than 2.

Code:

```
SELECT * FROM Employee
WHERE dept IN (
SELECT dept FROM Employee
```

```
GROUP BY dept

HAVING COUNT(eid) < 2
);
```

Output:



7. Display the name of employee who works in department having count of employee less than 2.

Code:

```
SELECT ename FROM Employee
WHERE dept IN (
SELECT dept FROM Employee
GROUP BY dept
HAVING COUNT(eid) < 2
);
```

Output:



8. Write a query display highest salary department wise and name of employee who is taking that salary.

Code:

```
SELECT dept, ename, salary FROM Employee e
WHERE salary = (
SELECT MAX(salary) FROM Employee WHERE dept = e.dept
);
```

Output:

	dept	ename	salary
•	HR	Ravi	30000
	MRKT	Nitin	40000
	IT	Varun	50000

9. Find the name of employees who are working on a project?

Code:

SELECT ename FROM Employee

WHERE eid IN (SELECT eid FROM Project);

Output:



10. Find the details of employee who is working on at least one project?

Code:

SELECT * FROM Employee

WHERE eid IN (SELECT eid FROM Project);

Output:

