

**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 :**

	max_salary
▶	50000

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 :**

	ename
▶	Varun

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 :**

	ename
▶	Nitin

- 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 :**

	dept	no_of_employees
▶	HR	2
	MRKT	2
	IT	1

- 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 :**

	eid	ename	address	dept	salary
▶	5	Varun	chd	IT	50000
*	NULL	NULL	NULL	NULL	NULL

- 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 :**

	ename
▶	Varun

- 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 :**

	ename
▶	Ram
	Ravi
	Nitin
	Varun

**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 :**

	eid	ename	address	dept	salary
▶	1	Ram	chd	HR	10000
	3	Ravi	pune	HR	30000
	4	Nitin	bang	MRKT	40000
	5	Varun	chd	IT	50000
*	NULL	NULL	NULL	NULL	NULL