

SHUSHRUT KUMAR

RA1811028010049

J1 CSE - CC

## **DBMS LAB EXP 7 - NESTED QUERIES**

### **1. Create an employee table.**

```
create table EMP049 (EmpId number(3), Fname varchar2(20), Lname varchar2(20),  
Salary number(6), DeptId number(2), Job varchar2(20), JobId number(2), DOB date,  
Experience number(2), ReportTo varchar2(20), ReportId number(3));  
desc EMP049;  
INSERT INTO EMP049 VALUES(163, 'Arjun', 'Kumar', 4000, 20, 'PM', 12,  
TO_DATE('2002-01-28', 'yyyy-mm-dd'), 12, 'Ram', 18);  
INSERT INTO EMP049 VALUES(210, 'Janga', 'Fett', 5000, 13, 'Accountant', 35,  
TO_DATE('1997-05-12', 'yyyy-mm-dd'), 5, 'Payam', 89);  
INSERT INTO EMP049 VALUES(092, 'Baby', 'Yoda', 3000, 47, 'PM', 12,  
TO_DATE('2000-01-03', 'yyyy-mm-dd'), 1, 'Anil', 121);  
INSERT INTO EMP049 VALUES(169, 'Din', 'Djarin', 1500, 10, 'Accountant', 35,  
TO_DATE('1980-05-17', 'yyyy-mm-dd'), 6, 'Susan', 73);  
INSERT INTO EMP049 VALUES(001, 'Cara', 'Dunes', 7000, 39, 'Manager', 01,  
TO_DATE('1999-03-14', 'yyyy-mm-dd'), 4, 'Ram', 18);  
INSERT INTO EMP049 VALUES(311, 'Moff', 'Gideon', 2000, 15, 'Marketing', 34,  
TO_DATE('1991-05-18', 'yyyy-mm-dd'), 7, 'Ram', 18);  
INSERT INTO EMP049 VALUES(401, 'Master', 'Luke', 7777, 48, 'IT', 31,  
TO_DATE('1969-07-21', 'yyyy-mm-dd'), 2, 'Ram', 18);  
INSERT INTO EMP049 VALUES(163, 'Kylo', 'Ren', 3332, 42, 'Technician', 64,  
TO_DATE('1996-11-05', 'yyyy-mm-dd'), 3, 'Susan', 73);
```

```
SQL> desc EMP049;
```

Name	Null?	Type
EMPID		NUMBER(3)
FNAME		VARCHAR2(20)
LNAME		VARCHAR2(20)
SALARY		NUMBER(6)
DEPTID		NUMBER(2)
JOB		VARCHAR2(20)
JOBID		NUMBER(2)
DOB		DATE
EXPERIENCE		NUMBER(2)
REPORTTO		VARCHAR2(20)
REPORTID		NUMBER(3)

2. Display all employee names and salary whose salary is greater than minimum salary of the company and job title starts with 'M'.

```
SELECT CONCAT(Fname,Lname), Salary FROM EMP049 WHERE Salary >
(SELECT Min(Salary) FROM EMP049) AND Job LIKE 'M%';\
```

CONCAT(FNAME, LNAME)	SALARY
CaraDunes	7000
MoffGideon	2000

3. Issue a query to find all the employees who work in the same job as Arjun

```
SELECT EmpId, Fname, Lname, Job FROM EMP049 WHERE Job = (SELECT Job
FROM EMP049 WHERE Fname = 'Arjun');
```

EMPID	FNAME	LNAME	JOB
163	Arjun	Kumar	PM
92	Baby	Yoda	PM

4. Display the names and dob of all employees who were born in january.

```
SELECT Fname, Lname, DOB FROM EMP049 WHERE to_char(DOB, 'mon')='jan';
```

FNAME	LNAME	DOB
Arjun	Kumar	28-JAN-02
Baby	Yoda	03-JAN-00

5. Display the least experienced employees details.

```
SELECT * FROM EMP049 WHERE Salary = (SELECT MIN(Salary) FROM EMP049);
```

EMPID	FNAME	LNAME	SALARY	DEPTID
JOB	JOBID	DOB	EXPERIENCE	REPORTTO
REPORTID				
169	Din	Djarin	1500	10
Accountant	35	17-MAY-80	6	Susan
73				

6. Write a query to display the name ( first name and last name ) for those employees who gets more salary than the employee whose ID is 163

```
SELECT Fname, Lname FROM EMP049 WHERE Salary > (SELECT Salary FROM EMP049 WHERE EmpId = 163);
```

FNAME	LNAME
Janga	Fett
Cara	Dunes
Master	Luke

SQL>

7. Write a query to display the name ( first name and last name ), salary, department id, job id for those employees who work in the same designation as the employee works whose id is 169.

```
SELECT Fname,Lname,Salary,DeptId,JobId FROM EMP049 WHERE Job = (SELECT JOB FROM EMP049 WHERE EmpId = 169);
```

FNAME	LNAME	SALARY	DEPTID	JOBID
Janga	Fett	5000	13	35
Din	Djarin	1500	10	35

8. Write a query to display the employee id, employee name (first name and last name ) for all employees who earn more than the average salary.

```
SELECT EmpId,Fname,Lname FROM EMP049 WHERE Salary > (SELECT
AVG(Salary) FROM EMP049);
```

EMPID	FNAME	LNAME
210	Janga	Fett
1	Cara	Dunes
401	Master	Luke

9. Write a query to display the employee name ( first name and last name ), employee id and salary of all employees who report to Payam.

```
SELECT EmpId,Fname,Lname,Salary FROM EMP049 WHERE ReportTo = 'Payam';
```

EMPID	FNAME	LNAME	SALARY
210	Janga	Fett	5000

10. Write a query to display all the information of an employee whose salary and reporting person id is 3000 and 121 respectively.

```
SELECT * FROM EMP049 WHERE Salary = 3000 AND ReportId = 121;
```

EMPID	FNAME	LNAME	SALARY	DEPTID
JOB	JOBID	DOB	EXPERIENCE	REPORTTO
REPORTID				
92	Baby	Yoda	3000	47
PM		12 03-JAN-00	1 Anil	
121				

11. Write a query in SQL to display the full name (first and last name) of the manager who is supervising 4 or more employees.

```
SELECT DISTINCT(ReportTo) FROM EMP049 a WHERE 4 <= (SELECT COUNT(*)
FROM EMP049 WHERE ReportTo = a.ReportTo);
```

REPORTTO
Ram

12. Write a query in SQL to display the details of departments managed by Susan.

```
SELECT DeptId FROM EMP049 WHERE ReportTo = 'Susan';
```

DEPTID
10
42