

EXP 6

NESTED QUERIES

AIM: To execute nested queries in SQL.

1)CREATE AN EMPLOYEE TABLE

```
SQL> CREATE TABLE EMP387
  2  (
  3  EmpId number(3),
  4  Fname varchar2(20),
  5  Lname varchar2(20),
  6  Salary number(6),
  7  DeptId number(2),
  8  Job varchar2(20),
  9  JobId number(2),
 10  DOB date,
 11  Experience number(2),
 12  ReportTo varchar2(20),
 13  ReportId number(3)
 14 );
```

Table created.

2)INSERT VALUES NTO TABLE

```
SQL> INSERT INTO EMP387 VALUES(163, 'Arjun', 'Kumar', 4000, 20, 'PM', 12,
  2  TO_DATE('2002-01-28', 'yyyy-mm-dd'), 12, 'Ram', 18);

1 row created.

SQL> INSERT INTO EMP387 VALUES(210, 'Janga', 'Fett', 5000, 13, 'Accountant', 35,
  2  TO_DATE('1997-05-12', 'yyyy-mm-dd'), 5, 'Payam', 89);

1 row created.

SQL> INSERT INTO EMP387 VALUES(092, 'Baby', 'Yoda', 3000, 47, 'PM', 12,
  2  TO_DATE('2000-01-03', 'yyyy-mm-dd'), 1, 'Anil', 121);

1 row created.

SQL> INSERT INTO EMP387 VALUES(169, 'Din', 'Djarin', 1500, 10, 'Accountant', 35,
  2  TO_DATE('1980-05-17', 'yyyy-mm-dd'),6, 'Susan', 73);

1 row created.

SQL> INSERT INTO EMP387 VALUES(001, 'Cara', 'Dunes', 7000, 39, 'Manager', 01,
  2  TO_DATE('1999-03-14', 'yyyy-mm-dd'), 4, 'Ram', 18);

1 row created.

SQL> INSERT INTO EMP387 VALUES(311, 'Moff', 'Gideon', 2000, 15, 'Marketing', 34,
  2  TO_DATE('1991-05-18', 'yyyy-mm-dd'), 7, 'Ram', 18);

1 row created.

SQL> INSERT INTO EMP387 VALUES(401, 'Master', 'Luke', 7777, 48, 'IT', 31,
  2  TO_DATE('1969-07-21', 'yyyy-mm-dd'), 2, 'Ram', 18);

1 row created.

SQL> INSERT INTO EMP387 VALUES(163, 'Kylo', 'Ren', 3332, 42, 'Technician', 64,
  2  TO_DATE('1996-11-05', 'yyyy-mm-dd'), 3, 'Susan', 73);

1 row created.
```

3) 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 EMP387 WHERE
Salary > (SELECT Min(Salary) FROM EMP387) AND Job LIKE
'M%';
```

```
SQL> SELECT CONCAT(Fname,Lname), Salary FROM EMP387 WHERE Salary > (SELECT Min(Salary) FROM EMP387) AND Job LIKE 'M%';
```

CONCAT(FNAME,LNAME)	SALARY
-----	-----
CaraDunes	7000
MoffGideon	2000

4) Issue a query to find all the employees who work in the same job as Arjun

```
SELECT EmpId, Fname, Lname, Job FROM EMP387 WHERE Job = (SELECT Job FROM EMP387 WHERE Fname = 'Arjun');
```

```
SQL> SELECT EmpId, Fname, Lname, Job FROM EMP387 WHERE Job = (SELECT Job FROM EMP387 WHERE Fname = 'Arjun');
```

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

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

```
SELECT Fname, Lname, DOB FROM EMP387 WHERE to_char(DOB, 'mon')='jan';
```

```
SQL> SELECT Fname, Lname, DOB FROM EMP387 WHERE to_char(DOB, 'mon')='jan';
```

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

6) Display the least experienced employees details.

```
SELECT * FROM EMP387 WHERE Salary = (SELECT MIN(Salary) FROM EMP387);
```

```
SQL> SELECT * FROM EMP387 WHERE Salary = (SELECT MIN(Salary) FROM EMP387);
```

EMPID	FNAME	LNAME	SALARY	DEPTID
169	Din	Djarin	1500	10
73	Accountant			

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 EmpId,Fname,Lname FROM EMP387 WHERE Salary >
(SELECT AVG(Salary) FROM EMP387);
```

```
SQL> SELECT Fname,Lname,Salary,DeptId,JobId FROM EMP387 WHERE Job = (SELECT JOB FROM EMP387 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 EMP387 WHERE Salary >
(SELECT AVG(Salary) FROM EMP387);
```

```
SQL> SELECT EmpId,Fname,Lname FROM EMP387 WHERE Salary > (SELECT AVG(Salary) FROM EMP387);
```

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 EMP387 WHERE  
ReportTo = 'Payam';
```

```
SQL> SELECT EmpId,Fname,Lname,Salary FROM EMP387 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 EMP387 WHERE Salary = 3000 AND ReportId =  
121;
```

```
SQL> SELECT * FROM EMP387 WHERE Salary = 3000 AND ReportId = 121;
```

EMPID	FNAME	LNAME	SALARY	DEPTID
92	Baby	Yoda	3000	47
121				

PM 12 03-JAN-00 1 Anil

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 EMP387 a WHERE 4 <=
(SELECT COUNT(*) FROM EMP387 WHERE ReportTo =
a.ReportTo);
```

```
SQL> SELECT DISTINCT(ReportTo) FROM EMP387 a WHERE 4 <= (SELECT COUNT(*) FROM EMP387 WHERE ReportTo = a.ReportTo);
REPORTTO
-----
Ram
```

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

```
SELECT DeptId FROM EMP387 WHERE ReportTo = 'Susan';
```

```
SQL> SELECT DeptId FROM EMP387 WHERE ReportTo = 'Susan';

DEPTID
-----
    10
    42
```

RESULT: Thus the Nested queries in SQL are successfully executed and outputs are shown.

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