**EX:03 -NESTED QUERIES**

Create a table called EMP with the following structure.

Name Type

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EMPNO NUMBER(6)

ENAME VARCHAR2(20)

JOB VARCHAR2(10)

DEPTNO NUMBER(3)

SALARY NUMBER(7,2)

Create a table called DEPT with the following structure.

Name Type

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DEPTNO NUMBER(2)

DNAME VARCHAR2(10)

LOC VARCHAR2(10)

Insert the following values in both the tables.

EMPNO ENAME JOB DEPTNO SAL

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1 Mathi AP 1 10000

2 Arjun ASP 2 12000

3 Gugan ASP 2 20000

4 Karthik AP 1 15000

DEPTNO DNAME LOC

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1 ACCOUNTING NEW YORK

2 RESEARCH DALLAS

3 SALES CHICAGO

4 OPERATIONS BOSTON

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| Q1: Display all employee names and salary whose salary is greater than minimum salary of the company and job title starts with ‘M’. |
| **Query:**  select ename from emp where job like 'M%' and salary>(select min(salary) from emp); |
| **Output:**  no rows selected |
| Q2: Issue a Query: to find all the employees who work in the same job as Arjun. |
| **Query:**  select ename from emp where job=(select job from emp where ename='Arjun'); |
| **Output:** ENAME  --------------------  Arjun  Gugan |
| Q3: Issue a Query: to display information about employees who earn more than any employee in dept 1. |
| **Query:**  select \* from emp where salary >(select max(salary) from emp where deptno=1); |
| **Output:**  EMPNO ENAME JOB DEPTNO SALARY  ---------- ------------ -------- ---------- ----------  3 Gugan ASP 2 20000 |
| Q4: Write a query to display the employee name and hire date for all employees in the same department as Blake. Exclude Blake.  insert into emp values(5,'Blake','asp',2,18000); |
| **Query:**  select ename,salary from emp where ename <> 'Blake' and deptno=(select deptno from emp where ename='Blake'); |
| **Output:**  ENAME SALARY  -------------------- ----------  Arjun 12000  Gugan 20000 |
| **Q5:** Create a query to display the employee number and name for all employees who earn more than the average salary. Sort the results in descending order of salary |
| **Query:**  select empno,ename from emp where salary>(select avg(salary) from emp) order by salary desc; |
| **Output:**  EMPNO ENAME  ----- -------  3 Gugan  5 Blake |
| **Q6:** Write a query to display the employee number and name for all employees who work in a department with any employee whose name contains a T |
| **Query:**  select empno,ename from emp where deptno in (select deptno from emp where ename like '%t%' ); |
| **Output:**  EMPNO ENAME  ---------- --------------------  4 Karthick  1 Mathi |
| **Q7:** Display the employee name, department number, and job title for all employees whose department location is Dallas. |
| **Query:** select ename,deptno,job from emp where deptno in (select deptno from emp where loc='Dallas'); |
| **Output:**  ENAME DEPTNO JOB  -------------------- ---------- ----------  Blake 2 asp  Gugan 2 ASP  Arjun 2 ASP |
| **Q8:** Display the employee name and salary of all employees who report to King. |
| **Query:** select ename,salary from emp where report='k'; |
| **Output:**  ENAME SALARY  -------------------- ----------  Mathi 10000  Arjun 12000  Gugan 20000  Karthik 15000 |
| **Q9:** Display the department number, name and job for all employees in the Sales department |
| **Query:**  select deptno, ename,job from emp where deptno in (select deptno from dept where dname='SALES'); |
| **Output:**  DEPTNO ENAME JOB  ---------- -------------------- ----------  3 Blake ASP |
| **Q10 (a): Find the highest paid employee in the table.**  **(b): Find the second highest paid employee in the table.**  **(c): Retrieve the name, dept, age and salary of the employee whose salary is greater than the highest paid in the company.** |
| **Query:**   1. select ename,salary from emp where salary=(select max(salary) from emp); 2. select ename,salary from emp where salary= (select max(salary) AS salary FROM emp WHERE salary < (SELECT MAX(salary) FROM emp)); 3. select ename,deptno,salary from emp where salary >(select max(salary) from company); |
| **Output:**  **A.**  ENAME SALARY  -------------------- ----------  Gugan 20000  **B.**  ENAME SALARY  -------------------- ----------  Blake 18000  **C.** ENAME DEPTNO SALARY  -------------------- ---------- ----------  Aj 0 50000  Arjun 2 12000  Gugan 2 20000  Karthik 1 15000  Blake 3 18000 |