

Fatima Jinnah Women University

Department of Software Engineering

LAB8

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Section: A

Semester: Fourth

Course: Data Base (LAB)

EXAMPLES:

Sub Query:

```
SQL> select ename from emp

2 where sal >

3 (select sal from emp

4 where ename='SCOTT'

5 );

ENAME

-----
KING

SQL>
```

Single-Row Sub Queries:

Multiple-Row Sub Queries:

```
SQL> select empno, job, sal
2 from emp
3 where sal < any (select sal
4 from emp where job='CLERK')
5 and job <> 'CLERK';

EMPNO JOB SAL

7521 SALESMAN 1250
7654 SALESMAN 1250
```

```
SQL> select e.ename from emp e
2 where e.empno not in (select m.mgr
3 from emp m);
no rows selected
```

TASKS

1. Write a query to display the employee name and hiredate of any employee in the same department as SCOTT. Exclude SCOTT.

2. Create a query to display the employee number and name of all employees who earn more than average salary. Sort the results in ascending order of salary.

```
SQL> select empno,ename from emp where sal > (select avg(sal) from emp) order by sal asc;

EMPNO ENAME

7782 CLARK
7698 BLAKE
7566 JONES
7902 FORD
7788 SCOTT
7839 KING
```

3. Write a query that displays the employee number and name of all employees who work in a department with any employee whose name start with "S".

4. Display the employee name, department number, and job of all employees whose department location is CHICAGO.

```
SQL> select ename,deptno,job from emp where deptno = (select deptno from dept where loc='CHICAGO' );
ENAME
              DEPTNO JOB
ALLEN
                   30 SALESMAN
WARD
                   30 SALESMAN
MARTIN
                 30 SALESMAN
BLAKE
                 30 MANAGER
                  30 SALESMAN
TURNER
JAMES
                  30 CLERK
 rows selected.
```

5. Display the employee name and salary of every employee who reports to King.

6. Display the department number, employee name and job for every employee in the OPERATION department.

```
SQL> select d.deptno,e.job,e.ename,d.dname from emp e , dept d where d.deptno in (select deptno from dept where dname= 'OPERATIONS' );
   DEPTNO JOB
                    ENAME
                               DNAME
       40 CLERK
                    SMITH
                              OPERATIONS
       40 SALESMAN ALLEN
                               OPERATIONS
       40 SALESMAN WARD
                               OPERATIONS
       40 MANAGER
                    JONES
                               OPERATIONS
       40 SALESMAN
                    MARTIN
                               OPERATIONS
       40 MANAGER
                    BLAKE
                               OPERATIONS
                    CLARK
       40 MANAGER
                               OPERATIONS
       40 ANALYST
                               OPERATIONS
       40 PRESIDENT KING
                               OPERATIONS
       40 SALESMAN TURNER
                               OPERATIONS
       40 CLERK
                    ADAMS
                               OPERATIONS
   DEPTNO JOB
                    ENAME
                               DNAME
       40 CLERK
                    JAMES
                               OPERATIONS
       40 ANALYST
                    FORD
                               OPERATIONS
       40 CLERK
                               OPERATIONS
14 rows selected.
```

7. Write a query to display the employee number, employee name and salaries of all employees who earn more than average salary and who work in a department with any employee with "A" in their name.

```
SQL> select ename, empno, sal from emp where ename like '%A%' and sal > (select avg(sal) from emp);

ENAME EMPNO SAL
-----BLAKE 7698 2850
CLARK 7782 2450
```