Spool File For Oracle Students Prepared By Mr.Balram SQL> SELECT Job 2 FROM Emp 3 WHERE Ename = UPPER('smith'); JOB CLERK SQL> SELECT Ename, Job, Sal, Deptno 2 FROM Emp 3 WHERE Job = 'CLERK' --Hard Coding ENAME JOB SAL DEPTNO \_\_\_\_\_\_ SMITH 800 20 CLERK CLERK 1100 20 ADAMS CLERK 950 30 JAMES MILLER CLERK 1300 10 SQL> ED Wrote file afiedt.buf 1 SELECT Ename, Job, Sal, Deptno 2 FROM Emp 3 WHERE Job = (SELECT Job FROM Emp WHERE Ename = UPPER('smith') 5 --Soft Coding 6\* SQL> / ENAME 800 SMITH CLERK 20 1100 ADAMS CLERK 20 950 30 JAMES CLERK MILLER CLERK 1300 10 SQL> INSERT INTO EMP(EMPNO, ENAME, JOB, SAL, DEPTNO) 2 VALUES (7935, 'SMITH', 'SALESMAN', 1200, 30); 1 row created. SQL> SELECT Ename, Job, Sal, Deptno 2 FROM Emp 3 WHERE Job = (SELECT Job FROM Emp 5 WHERE Ename = UPPER('smith') --Soft Coding 6

7 /

SQL> ROLLBACK;

Rollback complete.

SQL> --Display The Details of The Employees Who Are Juniors To TURNER. SQL> SELECT HireDate

- 2 FROM Emp
- 3 WHERE Ename = 'TURNER';

### HIREDATE

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08-SEP-81

SQL> SELECT Empno, Ename, Job, HireDate, Sal, Deptno

- 2 FROM Emp
- 3 WHERE HireDate > (
- 4 SELECT HireDate
- 5 FROM Emp
- 6 WHERE Ename = 'TURNER'
- 7);

EMPNO	ENAME	JOB	HIREDATE	SAL	DEPTNO
7788 7839 7876	MARTIN SCOTT KING ADAMS	SALESMAN ANALYST PRESIDENT CLERK	28-SEP-81 19-APR-87 17-NOV-81 23-MAY-87	1250 3000 5000 1100	30 20 10 20
7902	JAMES FORD MILLER	CLERK ANALYST CLERK	03-DEC-81 03-DEC-81 23-JAN-82	950 3000 1300	30 20 10

7 rows selected.

 $\ensuremath{\mathsf{SQL}}\xspace > \ensuremath{\mathsf{--Display}}\xspace$  The Details of The Employees Who Are Seniors To TURNER  $\ensuremath{\mathsf{SQL}}\xspace > \ensuremath{\mathsf{ED}}\xspace$ 

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- 1 SELECT Empno, Ename, Job, HireDate, Sal, Deptno
- 2 FROM Emp
- 3 WHERE HireDate < (
- 4 SELECT HireDate
- 5 FROM Emp
- 6 WHERE Ename = 'TURNER'

7\*)

SQL> /

DEPTNO	SAL	HIREDATE	JOB	ENAME	EMPNO
20	800	17-DEC-80	CLERK	SMITH	7369
30	1600	20-FEB-81	SALESMAN	ALLEN	7499
30	1250	22-FEB-81	SALESMAN	WARD	7521
20	2975	02-APR-81	MANAGER	JONES	7566

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7698 BLAKE MANAGER 01-MAY-81 2850 30 7782 CLARK MANAGER 09-JUN-81 2450 10

6 rows selected.

 $\mbox{SQL}\mbox{$>$}$  --Display The  $\,$  Details of The Employees Who Are Joined on the Same Date Of TURNER.

SQL> ED

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- 1 SELECT Empno, Ename, Job, HireDate, Sal, Deptno
- 2 FROM Emp
- 3 WHERE HireDate = (
- 4 SELECT HireDate
- 5 FROM Emp
- 6 WHERE Ename = 'TURNER'

7\*)

SQL> /

EMPNO	ENAME	JOB	HIREDATE	SAL	DEPTNO
7844	TURNER	SALESMAN	08-SEP-81	1500	30

SQL > --Display The Details of All The Employees Who Are Working For SALES Department.

SQL> SELECT Empno, Ename, Job, Sal, Deptn

2

SQL> SELECT Empno, Ename, Job, Sal, Deptno

- 2 FROM Emp
- 3 WHERE Deptno =
- 1
- 5 SELECT Deptno
- 6 FROM Dept
- 7 WHERE Dname = 'SALES'
- 8);

EMPNO	ENAME	JOB	SAL	DEPTNO
		<b></b>		
7499	ALLEN	SALESMAN	1600	30
7521	WARD	SALESMAN	1250	30
7654	MARTIN	SALESMAN	1250	30
7698	BLAKE	MANAGER	2850	30
7844	TURNER	SALESMAN	1500	30
7900	JAMES	CLERK	950	30

6 rows selected.

SQL> SELECT Deptno

- 2 FROM Dept
- 3 WHERE Dname = 'SALES';

DEPTNO

-----

30

```
SQL> --Applying Aggregate Functions in The Sub-Queries--
SQL> --Display The Details of The Employees Whose Salaries Are Matching
with the Highest Salary of The Organisation.
SQL> SELECT Empno, Ename, Job, Deptno, Sal
  2 FROM Emp
 3 WHERE Sal =
 5 SELECT MAX(Sal) FROM Emp
 6);
                         DEPTNO
                  JOB
   EMPNO ENAME
                  PRESIDENT 10
     7839 KING
                                             5000
SQL> --Display The Details of The Employees Whose Salaries Are Matching
with the Lowest Salary of The Organisation.
SOL> ED
Wrote file afiedt.buf
 1 SELECT Empno, Ename, Job, Deptno, Sal
 2 FROM Emp
 3 WHERE Sal =
  5 SELECT MIN(Sal) FROM Emp
SOL> /
   EMPNO ENAME
                    JOB
                                 DEPTNO
    7369 SMITH CLERK
                                     20
                                              800
SQL> --Display The Details of The Employees Whose Salaries Are Matching
with the Highest Salary of Department 20.
SOL> ED
Wrote file afiedt.buf
 1 SELECT Empno, Ename, Job, Deptno, Sal
 2 FROM Emp
 3 WHERE Sal =
    SELECT MAX(Sal) FROM Emp
  6 WHERE DEPTNO = 20
 7*)
SOL> /
   EMPNO ENAME JOB DEPTNO
     7788 SCOTT
                  ANALYST
                               20
                                            3000
     7902 FORD
                                    20
                                            3000
                  ANALYST
SQL> SELECT MAX(Sal) FROM Emp
 2 WHERE DEPTNO = 20;
```

```
MAX (SAL)
-----
     3000
SOL> ED
Wrote file afiedt.buf
 1 SELECT Empno, Ename, Job, Deptno, Sal
 2 FROM Emp
 3 WHERE Sal =
 4 (
 5 SELECT MAX(Sal) FROM Emp
 6 WHERE DEPTNO = (
 7
         SELECT Deptno
         FROM Dept
 8
 9
         WHERE Dname = 'RESEARCH'
10
11*)
SQL> /
                  JOB
    EMPNO ENAME
                               DEPTNO
______
     7788 SCOTT ANALYST
                                  20
                                          3000
     7902 FORD
                                          3000
                 ANALYST
SQL> SELECT Deptno
 2 FROM Dept
 3 WHERE Dname = 'RESEARCH';
  DEPTNO
_____
      20
SQL> --Display The Details of The Employees Whose Salaries Are Matching
with the Lowest Salary of Department 20.
SQL>
SQL> --Display The Details of The Employees Whose Salaries Are Above the
Mean Salary of The Organisation.
SQL> SELECT Empno, Ename, Job, Sal, Deptno
 2 FROM Emp
 3 WHERE Sal >
 5 SELECT AVG(Sal) FROM Emp
   );
    EMPNO ENAME
                  JOB
                                SAL DEPTNO
7566 JONES
                  MANAGER
                                2975
     7698 BLAKE
                                2850
                  MANAGER
                                           30
                 MANAGER
                               2450
                                           10
     7782 CLARK
     7788 SCOTT
                 ANALYST
                                3000
                                           20
     7839 KING
                 PRESIDENT
                               5000
                                           10
```

3000

20

ANALYST

7902 FORD

```
6 rows selected.
```

SQL> SELECT AVG(Sal) FROM Emp;

AVG(SAL)

-----

2073.21429

 $\mbox{SQL}\mbox{$>$}$  --Display The Details of The Employees Whose Salaries Are Below the Mean Salary of The Organisation.

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Empno, Ename, Job, Sal, Deptno
- 2 FROM Emp
- 3 WHERE Sal <

5 SELECT AVG(Sal) FROM Emp

6\* )

SQL> /

EMPNO	ENAME	JOB	SAL	DEPTNO
7369	SMITH	CLERK	800	20
7499	ALLEN	SALESMAN	1600	30
7521	WARD	SALESMAN	1250	30
7654	MARTIN	SALESMAN	1250	30
7844	TURNER	SALESMAN	1500	30
7876	ADAMS	CLERK	1100	20
7900	JAMES	CLERK	950	30
7934	MILLER	CLERK	1300	10

8 rows selected.

SQL> --Get The Details Of Departmentwise Least Salaries Only When A Dept Least Investment Is Above The Dept 20 Least Investment.

SQL> SELECT Deptno, MIN(Sal) SalMin

- 2 FROM Emp
- 3 GROUP BY Deptno
- 4 HAVING MIN(Sal) >
- 5 (
- 6 SELECT MIN(Sal) FROM Emp
- 7 WHERE Deptno = 20
- 8);

SALMIN	DEPTNO	
950	30	
1300	10	

SQL> --Display Designation Wise Avg Investments Only When The Avg Investment is Matching To The Least AvgInvestments of The Jobs. SQL> SELECT Job, AVG(Sal) SalAvg

2 FROM Emp

```
3 GROUP BY Job
  4 HAVING AVG(Sal) =
  5 (
  6 SELECT MIN(AVG(Sal))
  7 FROM Emp
  8 GROUP BY Job
  9);
JOB
           SALAVG
CLERK
             1037.5
SQL> SELECT MIN(AVG(Sal))
  2 FROM Emp
  3 GROUP BY Job;
MIN (AVG (SAL))
       1037.5
SQL> ED
Wrote file afiedt.buf
  1 SELECT Job, MIN(AVG(Sal)) SalAvgMin
  2 FROM Emp
  3* GROUP BY Job
SQL> /
SELECT Job, MIN(AVG(Sal)) SalAvgMin
ERROR at line 1:
ORA-00937: not a single-group group function
SQL> SELECT Job, AVG(Sal) SalAvg
  2 FROM Emp
  3 GROUP BY Job;
JOB
             SALAVG
             1037.5
CLERK
              1400
SALESMAN
PRESIDENT 500
MANAGER 2758.33333
3000
SQL> --Display Designation Wise Avg Investments Only When The Avg
Investment is Matching To The Highest AvgInvestments of The Jobs.
SOL> ED
Wrote file afiedt.buf
  1 SELECT Job, AVG(Sal) SalAvg
  2 FROM Emp
  3 GROUP BY Job
  4 HAVING AVG(Sal) =
```

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```
5 (
  6 SELECT MAX(AVG(Sal))
  7 FROM Emp
  8 GROUP BY Job
  9*);
SOL>
SQL> ED
Wrote file afiedt.buf
  1 SELECT Job, AVG(Sal) SalAvg
  2 FROM Emp
  3 GROUP BY Job
  4 \quad \text{HAVING AVG(Sal)} =
  5
  6 SELECT MAX(AVG(Sal))
  7 FROM Emp
  8 GROUP BY Job
  9*)
SQL> /
JOB
              SALAVG
PRESIDENT
            5000
SQL> SELECT MAX(AVG(Sal))
  2 FROM Emp
  3 GROUP BY Job;
MAX (AVG (SAL))
         5000
SQL> --Display Designation Wise Avg Investments Only When The Avg
Investment is More Than Highest AvgInvestments of The Jobs.
SQL> --Display Designation Wise Avg Investments Only When The Avg
Investment is Below The Highest AvgInvestments of The Jobs.
SQL> --Display Dept Wise Avg Investments Only When The Avg Investment is
More Than Highest AvgInvestments of The Departments.
SQL> SPOOL OFF
```