

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

SQL> SELECT Ename, Sal
2 FROM Emp;

ENAME	SAL
KING	5000
BLAKE	2850
CLARK	2450
JONES	2975
MARTIN	1250
ALLEN	1600
TURNER	1500
JAMES	950
WARD	1250
FORD	3000
SMITH	800
SCOTT	3000
ADAMS	1100
MILLER	1300

14 rows selected.

SQL> SELECT MAX(Sal)
2 FROM Emp
3 /

MAX(SAL)
5000

SQL> ED
Wrote file afiedt.buf

1 SELECT Ename, MAX(Sal)
2* FROM Emp

SQL> /
SELECT Ename, MAX(Sal)
*

ERROR at line 1:
ORA-00937: not a single-group group function

SQL> SELECT Ename, Job , Sal
2 FROM Emp

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```
3 WHERE Sal = 5000;
```

ENAME	JOB	SAL
KING	PRESIDENT	5000

```
SQL> SELECT Ename, Job , Sal
2 FROM Emp
3 WHERE Sal =
4 (
5 SELECT MAX(Sal)
6 FROM Emp
7 );
```

ENAME	JOB	SAL
KING	PRESIDENT	5000

```
SQL> SELECT Ename, Job, Sal
2 FROM Emp
3 WHERE Sal =
4 (
5 SELECT MIN(Sal)
6 FROM Emp
7 );
```

ENAME	JOB	SAL
SMITH	CLERK	800

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT Ename, Job, Sal
2 FROM Emp
3 WHERE Sal =
4 (
5 SELECT MIN(Sal)
6 FROM Emp
7 WHERE Deptno = 10
8* )
SQL> /
```

ENAME	JOB	SAL
MILLER	CLERK	1300

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SQL> ED
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```
1  SELECT Ename, Job, Sal
2  FROM Emp
3  WHERE Sal =
4    (
5    SELECT MIN(Sal)
6    FROM Emp
7    WHERE Deptno =
8      (
9      SELECT Deptno
10     FROM Dept
11     WHERE Dname = 'ACCOUNTING'
12     )
13* )
SQL> /
```

ENAME	JOB	SAL
MILLER	CLERK	1300

SQL> ED
Wrote file afiedt.buf

```
1  SELECT Ename, Job, Sal
2  FROM Emp
3  WHERE Sal =
4    (
5    SELECT MAX(Sal)
6    FROM Emp
7    WHERE Deptno = 20
8* )
SQL> /
```

ENAME	JOB	SAL
FORD	ANALYST	3000
SCOTT	ANALYST	3000

SQL> ED
Wrote file afiedt.buf

```
1  SELECT Ename, Job, Sal
2  FROM Emp
```

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```
3 WHERE Sal =
4 (
5     SELECT MAX(Sal)
6     FROM Emp
7     WHERE Deptno =
8 (
9     SELECT Deptno
10    FROM Dept
11   WHERE Dname = 'RESEARCH'
12 )
13* )
SQL> /
```

ENAME	JOB	SAL
FORD	ANALYST	3000
SCOTT	ANALYST	3000

SQL> cl scr

```
SQL> SELECT Ename, Job, Sal
2 FROM Emp
3 WHERE Job = 'CLERK';
```

ENAME	JOB	SAL
JAMES	CLERK	950
SMITH	CLERK	800
ADAMS	CLERK	1100
MILLER	CLERK	1300

SQL> ED
Wrote file afiedt.buf

```
1 SELECT Ename, Job, Sal
2 FROM Emp
3 WHERE Sal =
4 (
5     SELECT MAX(Sal)
6     FROM Emp
7     WHERE Job = 'CLERK'
8* )
SQL> /
```

ENAME	JOB	SAL
-------	-----	-----

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MILLER CLERK 1300

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Ename, Job, Sal
2  FROM Emp
3  WHERE Sal =
4  (
5  SELECT MIN(Sal)
6  FROM Emp
7  WHERE Job = 'CLERK'
8* )
```

SQL> /

ENAME	JOB	SAL
SMITH	CLERK	800

SQL> cl scr

```
SQL> SELECT AVG(Sal)
2  FROM Emp
3  /
```

```
AVG(SAL)
-----
2073.21429
```

```
SQL> SELECT Ename, Job, Sal
2  FROM Emp
3  WHERE Sal >
4  (
5  SELECT AVG(Sal)
6  FROM Emp
7  );
```

ENAME	JOB	SAL
KING	PRESIDENT	5000
BLAKE	MANAGER	2850
CLARK	MANAGER	2450
JONES	MANAGER	2975
FORD	ANALYST	3000
SCOTT	ANALYST	3000

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6 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Ename, Job, Sal
2  FROM Emp
3  WHERE Sal <
4  (
5  SELECT AVG(Sal)
6  FROM Emp
7* )
SQL> /
```

ENAME	JOB	SAL
MARTIN	SALESMAN	1250
ALLEN	SALESMAN	1600
TURNER	SALESMAN	1500
JAMES	CLERK	950
WARD	SALESMAN	1250
SMITH	CLERK	800
ADAMS	CLERK	1100
MILLER	CLERK	1300

8 rows selected.

SQL> cl scr

```
SQL> SELECT MIN(Sal)
2  FROM Emp
3  WHERE Deptno = 20
4  /
```

```
MIN(SAL)
-----
      800
```

```
SQL> SELECT Deptno, MIN(Sal)
2  FROM Emp
3  GROUP BY Deptno
4  HAVING MIN(Sal) > 800;
```

DEPTNO	MIN(SAL)
30	950

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10 1300

```
SQL> SELECT Deptno, MIN(Sal)
2 FROM Emp
3 GROUP BY Deptno
4 HAVING MIN(Sal) >
5 (
6 SELECT MIN(Sal)
7 FROM Emp
8 WHERE Deptno = 20
9 );
```

DEPTNO	MIN(SAL)
30	950
10	1300

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT Deptno, MIN(Sal)
2 FROM Emp
3 GROUP BY Deptno
4 HAVING MIN(Sal) >
5 (
6 SELECT MIN(Sal)
7 FROM Emp
8 WHERE Deptno =
9 (
10 SELECT Deptno
11 FROM Dept
12 WHERE Dname = 'RESEARCH'
13 )
14* )
SQL> /
```

DEPTNO	MIN(SAL)
30	950
10	1300

```
SQL> cl scr
```

```
SQL> ED
Wrote file afiedt.buf
```

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```
1  SELECT Deptno, MIN(Sal)
2  FROM Emp
3  GROUP BY Deptno
4  HAVING MIN(Sal) >
5  (
6  SELECT Sal
7  FROM Emp
8  WHERE Ename = 'SMITH'
9* )
SQL> /
```

DEPTNO	MIN(SAL)
30	950
10	1300

SQL> cl scr

SQL> ED
Wrote file afiedt.buf

```
1  SELECT AVG(Sal)
2  FROM Emp
3* GROUP BY Job
SQL> /
```

AVG(SAL)
1400
1037.5
5000
2758.33333
3000

SQL> ED
Wrote file afiedt.buf

```
1  SELECT Job, AVG(Sal)
2  FROM Emp
3* GROUP BY Job
SQL> /
```

JOB	AVG(SAL)
SALESMAN	1400
CLERK	1037.5

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```
PRESIDENT      5000
MANAGER        2758.33333
ANALYST        3000
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT MIN(AVG(Sal))
2  FROM Emp
3*  GROUP BY Job
SQL> /
```

```
MIN(AVG(SAL))
-----
1037.5
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Job, MIN(AVG(Sal))
2  FROM Emp
3*  GROUP BY Job
SQL> /
```

```
SELECT Job, MIN(AVG(Sal))
      *
```

```
ERROR at line 1:
ORA-00937: not a single-group group function
```

```
SQL> SELECT Job, AVG(Sal)
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      AVG(SAL)
-----
CLERK    1037.5
```

```
SQL> SELECT Job, AVG(Sal)
2  FROM Emp
3  GROUP BY Job
```

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```
4  HAVING AVG(Sal) <
5  (
6  SELECT MAX(AVG(Sal))
7  FROM Emp
8  GROUP BY Job
9  );
```

JOB	AVG(SAL)
SALESMAN	1400
CLERK	1037.5
MANAGER	2758.33333
ANALYST	3000

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Job, AVG(Sal)
2  FROM Emp
3  GROUP BY Job
4  HAVING AVG(Sal) =
5  (
6  SELECT MAX(AVG(Sal))
7  FROM Emp
8  GROUP BY Job
9* )
SQL> /
```

JOB	AVG(SAL)
PRESIDENT	5000

```
SQL> cl scr
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Deptno, MIN(Sal)
2  FROM Emp
3* GROUP BY Deptno
SQL> /
```

DEPTNO	MIN(SAL)
30	950
20	800

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10 1300

```
SQL> SELECT Ename, Sal, Deptno
2   FROM Emp
3   WHERE Sal IN(950, 800, 1300)
4   /
```

ENAME	SAL	DEPTNO
JAMES	950	30
SMITH	800	20
MILLER	1300	10

```
SQL> cl scr
```

```
SQL> SELECT Ename, Sal, Deptno
2   FROM Emp
3   WHERE Sal IN
4   (
5   SELECT MIN(Sal)
6   FROM Emp
7   GROUP BY Deptno
8   );
```

ENAME	SAL	DEPTNO
JAMES	950	30
SMITH	800	20
MILLER	1300	10

```
SQL> INSERT INTO Emp(Empno, Ename, Deptno, Sal)
2   VALUES(7935, 'RAVI', 20, 950);
```

1 row created.

```
SQL> INSERT INTO Emp(Empno, Ename, Deptno, Sal)
2   VALUES(7936, 'RAHUL', 20, 1300);
```

1 row created.

```
SQL> INSERT INTO Emp(Empno, Ename, Deptno, Sal)
2   VALUES(7937, 'RAJNISH', 30, 1300);
```

1 row created.

```
SQL> SELECT Ename, Sal, Deptno
```

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```
2 FROM Emp
3 WHERE Sal IN
4 (
5     SELECT MIN(Sal)
6     FROM Emp
7     GROUP BY Deptno
8 );
```

ENAME	SAL	DEPTNO
JAMES	950	30
SMITH	800	20
MILLER	1300	10
RAVI	950	20
RAHUL	1300	20
RAJNISH	1300	30

6 rows selected.

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

```
SQL> SELECT Ename, Sal, Deptno
2 FROM Emp
3 WHERE Sal IN
4 (
5     SELECT MAX(Sal)
6     FROM Emp
7     GROUP BY Deptno
8 );
```

ENAME	SAL	DEPTNO
KING	5000	10
BLAKE	2850	30
FORD	3000	20
SCOTT	3000	20

```
SQL> SELECT Ename, Sal , Deptno , Job
2 From Emp
3 Where Sal IN
4 (
5     SELECT MAX(Sal)
```

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```
6 FROM Emp
7 GROUP BY Job
8 );
```

ENAME	SAL	DEPTNO	JOB
KING	5000	10	PRESIDENT
JONES	2975	20	MANAGER
ALLEN	1600	30	SALESMAN
FORD	3000	20	ANALYST
SCOTT	3000	20	ANALYST
MILLER	1300	10	CLERK

6 rows selected.

SQL> cl scr

```
SQL> SELECT HireDate
2 FROM Emp
3 WHERE Deptno = 20
4 /
```

```
HIREDATE
-----
02-APR-81
03-DEC-81
17-DEC-80
09-DEC-82
12-JAN-83
```

```
SQL> SELECT Sal
2 FROM Emp
3 WHERE HireDate IN
4 (
5 SELECT HireDate
6 FROM Emp
7 WHERE Deptno = 20
8 )
9 /
```

```
SAL
-----
2975
3000
950
800
```

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3000
1100

6 rows selected.

SQL> ED
Wrote file afiedt.buf

```
1  SELECT Ename, Deptno, HireDate, Sal
2  FROM Emp
3  WHERE HireDate IN
4  (
5  SELECT HireDate
6  FROM Emp
7  WHERE Deptno = 20
8* )
SQL> /
```

ENAME	DEPTNO	HIREDATE	SAL
JONES	20	02-APR-81	2975
FORD	20	03-DEC-81	3000
JAMES	30	03-DEC-81	950
SMITH	20	17-DEC-80	800
SCOTT	20	09-DEC-82	3000
ADAMS	20	12-JAN-83	1100

6 rows selected.

```
SQL> SELECT Empno, Ename, Job, Sal, Deptno
2  FROM Emp
3  WHERE Sal IN
4  (
5  SELECT Sal
6  FROM Emp
7  WHERE HireDate IN
8  (
9  SELECT HireDate
10 FROM Emp
11 WHERE Deptno = 20
12 )
13 );
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7566	JONES	MANAGER	2975	20

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```
7900 JAMES      CLERK          950          30
7902 FORD       ANALYST       3000         20
7369 SMITH      CLERK          800         20
7788 SCOTT      ANALYST       3000         20
7876 ADAMS      CLERK         1100         20
```

6 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Empno, Ename, Job, Sal, Deptno
2  FROM Emp
3  WHERE Sal IN
4  (
5  SELECT Sal
6  FROM Emp
7  WHERE HireDate IN
8  (
9  SELECT HireDate
10 FROM Emp
11 WHERE Deptno =
12 (
13 SELECT Deptno
14 FROM Dept
15 WHERE Dname = 'RESEARCH'
16 )
17 )
18* )
SQL> /
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7566	JONES	MANAGER	2975	20
7900	JAMES	CLERK	950	30
7902	FORD	ANALYST	3000	20
7369	SMITH	CLERK	800	20
7788	SCOTT	ANALYST	3000	20
7876	ADAMS	CLERK	1100	20

6 rows selected.

SQL> SPOOL OFF

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