

## Spool File For Oracle Students Trained By Mr. Balram

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```
SQL> --WHERE DEPTNO =30 --COMPONENT WHERE CLASUE OR NON-PAIRWISE
COMPARISION
SQL> --WHERE (DEPTNO, SAL) IN (SELECT DEPTNO, MAX(SAL)....) --COMPOUND
WHERE CLAUSE OR PAIRWISE COMPARISION
SQL>
SQL> --Rule01: The No. Of Columns in the WHERE Clause to The No. of
Columns in The Subquery should be equal
SQL> --Rule02: The DataTypes Of The Corresponding Columns Should Match
SQL> --Rule03: The Only Operator should be Used is "IN" Operator
SQL> SELECT DEPTNO,MAX(SAL)
      2 FROM EMP
      3 GROUP BY DEPTNO;
```

DEPTNO	MAX(SAL)
30	2850
20	3000
10	5000

```
SQL> SELECT ENAME,DEPTNO,SAL
      2 FROM EMP
      3 WHERE (DEPTNO,SAL) IN
      4 (
      5 SELECT DEPTNO,MAX(SAL)
      6 FROM EMP
      7 GROUP BY DEPTNO
      8 );
```

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

```
SQL> SELECT ENAME,DEPTNO,SAL
      2 FROM EMP
      3 WHERE DEPTNO IN
      4 (
      5 SELECT DEPTNO
      6 FROM EMP
      7 GROUP BY DEPTNO
      8 ) AND SAL IN
      9 (
     10 SELECT MAX(SAL)
     11 FROM EMP
     12 GROUP BY DEPTNO
     13 )
     14 ORDER BY DEPTNO
     15 /
```

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

```
SQL> SELECT DEPTNO,MAX(SAL)
2 FROM EMP
3 GROUP BY DEPTNO;
```

DEPTNO	MAX(SAL)
30	2850
20	3000
10	5000

```
SQL> INSERT INTO EMP(EMPNO,ENAME,DEPTNO,SAL)
2 VALUES(7935,'RAJU',10,3000);
```

1 row created.

```
SQL> INSERT INTO EMP(EMPNO,ENAME,DEPTNO,SAL)
2 VALUES(7936,'RAMU',10,2850);
```

1 row created.

```
SQL> INSERT INTO EMP(EMPNO,ENAME,DEPTNO,SAL)
2 VALUES(7937,'RAKESH',20,2850);
```

1 row created.

```
SQL> SELECT ENAME,DEPTNO,SAL
2 FROM EMP
3 WHERE (DEPTNO,SAL) IN
4 (
5 SELECT DEPTNO,MAX(SAL)
6 FROM EMP
7 GROUP BY DEPTNO
8 )
9 ORDER BY DEPTNO
10 /
```

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

```
SQL> SELECT ENAME,DEPTNO,SAL
2 FROM EMP
3 WHERE DEPTNO IN
4 (
5 SELECT DEPTNO
```

## Spool File For Oracle Students Trained By Mr. Balram

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```
6 FROM EMP
7 GROUP BY DEPTNO
8 ) AND SAL IN
9 (
10 SELECT MAX(SAL)
11 FROM EMP
12 GROUP BY DEPTNO
13 )
14 ORDER BY DEPTNO
15 /
```

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

7 rows selected.

```
SQL> SELECT ENAME,DEPTNO,SAL
2 FROM EMP
3 WHERE (DEPTNO,SAL) IN
4 (
5 SELECT DEPTNO,MIN(SAL)
6 FROM EMP
7 GROUP BY DEPTNO
8 )
9 ORDER BY DEPTNO
10 /
```

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

```
SQL> SELECT ENAME,DEPTNO,JOB,SAL
2 FROM EMP
3 WHERE (JOB,SAL) IN
4 (
5 SELECT JOB,MIN(SAL)
6 FROM EMP
7 GROUP BY JOB
8 )
9 ORDER BY DEPTNO
10 /
```

ENAME	DEPTNO	JOB	SAL
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KING	10	PRESIDENT	5000
CLARK	10	MANAGER	2450
FORD	20	ANALYST	3000
SMITH	20	CLERK	800
SCOTT	20	ANALYST	3000
MARTIN	30	SALESMAN	1250
WARD	30	SALESMAN	1250

7 rows selected.

```
SQL> SELECT ENAME,DEPTNO,JOB,SAL
  2  FROM EMP
  3  WHERE (JOB,SAL) IN
  4  (
  5  SELECT JOB,MAX(SAL)
  6  FROM EMP
  7  GROUP BY JOB
  8  )
  9  ORDER BY DEPTNO
 10  /
```

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

6 rows selected.

```
SQL> SELECT ENAME,TO_CHAR(HIREDATE,'YYYY') YEAR, SAL
  2  FROM EMP
  3  WHERE (TO_CHAR(HIREDATE,'YYYY'),SAL) IN
  4  (
  5  SELECT TO_CHAR(HIREDATE,'YYYY'),MAX(SAL)
  6  FROM EMP
  7  GROUP BY TO_CHAR(HIREDATE,'YYYY')
  8  )
  9  ORDER BY 2;
```

ENAME	YEAR	SAL
SMITH	1980	800
KING	1981	5000
SCOTT	1982	3000
ADAMS	1983	1100

```
SQL> SELECT ENAME,TO_CHAR(HIREDATE,'YYYY') YEAR, SAL
  2  FROM EMP
  3  WHERE (TO_CHAR(HIREDATE,'YYYY'),SAL) IN
  4  (
```

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```
5  SELECT TO_CHAR(HIREDATE, 'YYYY'), MIN(SAL)
6  FROM EMP
7  GROUP BY TO_CHAR(HIREDATE, 'YYYY')
8  )
9  ORDER BY 2;
```

ENAME	YEAR	SAL
SMITH	1980	800
JAMES	1981	950
MILLER	1982	1300
ADAMS	1983	1100

```
SQL> SELECT ENAME, TO_CHAR(HIREDATE, 'MONTH') MONTH, SAL
2  FROM EMP
3  WHERE (TO_CHAR(HIREDATE, 'MONTH'), SAL) IN
4  (
5  SELECT TO_CHAR(HIREDATE, 'MONTH'), MAX(SAL)
6  FROM EMP
7  GROUP BY TO_CHAR(HIREDATE, 'MONTH')
8  )
9  ORDER BY 2;
```

ENAME	MONTH	SAL
JONES	APRIL	2975
FORD	DECEMBER	3000
SCOTT	DECEMBER	3000
ALLEN	FEBRUARY	1600
MILLER	JANUARY	1300
CLARK	JUNE	2450
BLAKE	MAY	2850
KING	NOVEMBER	5000
TURNER	SEPTEMBER	1500

9 rows selected.

```
SQL> SELECT ENAME, TO_CHAR(HIREDATE, 'MONTH') MONTH, SAL
2  FROM EMP
3  WHERE (TO_CHAR(HIREDATE, 'MONTH'), SAL) IN
4  (
5  SELECT TO_CHAR(HIREDATE, 'MONTH'), MIN(SAL)
6  FROM EMP
7  GROUP BY TO_CHAR(HIREDATE, 'MONTH')
8  )
9  ORDER BY 2;
```

ENAME	MONTH	SAL
JONES	APRIL	2975
JAMES	DECEMBER	950
WARD	FEBRUARY	1250
ADAMS	JANUARY	1100

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CLARK	JUNE	2450
BLAKE	MAY	2850
SMITH	NOVEMBER	800
MARTIN	SEPTEMBER	1250

8 rows selected.

```
SQL> SELECT ENAME,TO_CHAR(HIREDATE,'YYYY') YEAR,TO_CHAR(HIREDATE,'MONTH')
MONTH, SAL
2 FROM EMP
3 WHERE (TO_CHAR(HIREDATE,'YYYY'),TO_CHAR(HIREDATE,'MONTH'),SAL) IN
4 (
5 SELECT TO_CHAR(HIREDATE,'YYYY'),TO_CHAR(HIREDATE,'MONTH'),MAX(SAL)
6 FROM EMP
7 GROUP BY TO_CHAR(HIREDATE,'YYYY'),TO_CHAR(HIREDATE,'MONTH')
8 )
9 ORDER BY 2;
```

ENAME	YEAR	MONTH	SAL
SMITH	1980	NOVEMBER	800
FORD	1981	DECEMBER	3000
KING	1981	NOVEMBER	5000
BLAKE	1981	MAY	2850
CLARK	1981	JUNE	2450
JONES	1981	APRIL	2975
ALLEN	1981	FEBRUARY	1600
TURNER	1981	SEPTEMBER	1500
MILLER	1982	JANUARY	1300
SCOTT	1982	DECEMBER	3000
ADAMS	1983	JANUARY	1100

11 rows selected.

```
SQL> SELECT
2 ENAME,
3 TO_CHAR(HIREDATE,'YYYY') YEAR,
4 TO_CHAR(HIREDATE,'MONTH') MONTH,
5 SAL
6 FROM EMP
7 WHERE (TO_CHAR(HIREDATE,'YYYY'),TO_CHAR(HIREDATE,'MONTH'),SAL) IN
8 (
9 SELECT TO_CHAR(HIREDATE,'YYYY'),TO_CHAR(HIREDATE,'MONTH'),MIN(SAL)
10 FROM EMP
11 GROUP BY TO_CHAR(HIREDATE,'YYYY'),TO_CHAR(HIREDATE,'MONTH')
12 )
13 ORDER BY 2;
```

ENAME	YEAR	MONTH	SAL
SMITH	1980	NOVEMBER	800
JAMES	1981	DECEMBER	950
KING	1981	NOVEMBER	5000

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BLAKE	1981 MAY	2850
CLARK	1981 JUNE	2450
MARTIN	1981 SEPTEMBER	1250
WARD	1981 FEBRUARY	1250
JONES	1981 APRIL	2975
MILLER	1982 JANUARY	1300
SCOTT	1982 DECEMBER	3000
ADAMS	1983 JANUARY	1100

11 rows selected.

SQL> SPOOL OFF

Oracle 11g (SQL) By Balram