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Qualitative Training

in

Oracle SQL And PL/SQL

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Courses Offered

- **Oracle 11g R2 SQL And PL/SQL**
- **Informatica 9 With DWH Concepts**
- **Linux/Unix Shell Scripting**
- **Oracle Performance And Tuning**
- **Big-Data With Hadoop**
- **Developer Suite 10g**
- **Oracle Apps R12(Techno Functional)**
- **Oracle Live Projects(SQL, PL/SQL)**
- **Informatica Live Projects**
- **Data Modeling With Normalization**
- **Advanced SQL And PL/SQL**

New Batch Status

- **Oracle 11g R2 SQL And PL/SQL Starts From 04th May 2015 At 5.30PM.**
- **Real Time Oracle Project in Oracle SQL And PL/SQL 4.00PM To 8.00PM.**

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```
SQL> cl scr

SQL> SELECT Empno, Ename, Deptno, Sal
  2  FROM Emp;

     EMPNO ENAME          DEPTNO        SAL
---------- ---------- ---------- ----------
      7839 KING               10       5000
      7698 BLAKE              30       2850
      7782 CLARK              10       2450
      7566 JONES              20       2975
      7654 MARTIN             30       1250
      7499 ALLEN              30       1600
      7844 TURNER             30       1500
      7900 JAMES              30        950
      7521 WARD               30       1250
      7902 FORD               20       3000
      7369 SMITH              20        800
      7788 SCOTT              20       3000
      7876 ADAMS              20       1100
      7934 MILLER             10       1300

14 rows selected.

SQL> SELECT SUM(Sal) FROM Emp;

  SUM(SAL)
----------
     29025

SQL> ED
Wrote file afiedt.buf

  1  SELECT Empno, Ename, Deptno, Sal,
  2  (
  3  SELECT SUM(Sal)
  4  FROM Emp
  5  ) OrgSal
  6* FROM Emp
  7  /

     EMPNO ENAME          DEPTNO        SAL     ORGSAL
---------- ---------- ---------- ---------- ----------
      7839 KING               10       5000      29025
      7698 BLAKE              30       2850      29025
      7782 CLARK              10       2450      29025
      7566 JONES              20       2975      29025
```

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```
       7654 MARTIN              30      1250      29025
       7499 ALLEN               30      1600      29025
       7844 TURNER              30      1500      29025
       7900 JAMES               30       950      29025
       7521 WARD                30      1250      29025
       7902 FORD                20      3000      29025
       7369 SMITH               20       800      29025
       7788 SCOTT               20      3000      29025
       7876 ADAMS               20      1100      29025
       7934 MILLER              10      1300      29025

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT Empno, Ename, Deptno, Sal,
  2   (
  3    SELECT SUM(Sal), AVG(Sal)
  4    FROM Emp
  5   ) OrgSal
  6* FROM Emp
SQL> /
      SELECT SUM(Sal), AVG(Sal)
      *
ERROR at line 3:
ORA-00913: too many values


SQL> ED
Wrote file afiedt.buf

  1   SELECT Empno, Ename, Deptno, Sal,
  2   (
  3    SELECT SUM(Sal)
  4    FROM Emp
  5    GROUP BY Deptno
  6   ) OrgSal
  7* FROM Emp
SQL> /
      SELECT SUM(Sal)
      *
ERROR at line 3:
ORA-01427: single-row subquery returns more than one row


SQL> ED
```

```
Wrote file afiedt.buf

  1   SELECT Empno, Ename, Deptno, Sal,
  2   (
  3   SELECT SUM(Sal)
  4   FROM Emp
  5   ) OrgSumSal,
  6   (
  7   SELECT AVG(Sal)
  8   FROM Emp
  9   ) OrgAvgSal
 10* FROM Emp
SQL> /

    EMPNO ENAME          DEPTNO        SAL  ORGSUMSAL  ORGAVGSAL
---------- ---------- ---------- ---------- ---------- -----------
     7839 KING               10       5000      29025 2073.21429
     7698 BLAKE              30       2850      29025 2073.21429
     7782 CLARK              10       2450      29025 2073.21429
     7566 JONES              20       2975      29025 2073.21429
     7654 MARTIN             30       1250      29025 2073.21429
     7499 ALLEN              30       1600      29025 2073.21429
     7844 TURNER             30       1500      29025 2073.21429
     7900 JAMES              30        950      29025 2073.21429
     7521 WARD               30       1250      29025 2073.21429
     7902 FORD               20       3000      29025 2073.21429
     7369 SMITH              20        800      29025 2073.21429
     7788 SCOTT              20       3000      29025 2073.21429
     7876 ADAMS              20       1100      29025 2073.21429
     7934 MILLER             10       1300      29025 2073.21429

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT Empno, Ename, Deptno, Sal,
  2   TO_CHAR(
  3   (
  4   SELECT SUM(Sal)
  5   FROM Emp
  6   ), '99G999D99') OrgSumSal,
  7   TO_CHAR(
  8   (
  9   SELECT AVG(Sal)
 10   FROM Emp
 11   ), '99D999D99') OrgAvgSal
```

```
  12* FROM Emp
SQL> /
     ), '99D999D99') OrgAvgSal
        *
ERROR at line 11:
ORA-01481: invalid number format model


SQL> ED
Wrote file afiedt.buf

  1   SELECT Empno, Ename, Deptno, Sal,
  2   TO_CHAR(
  3   (
  4   SELECT SUM(Sal)
  5   FROM Emp
  6   ), '99G999D99') OrgSumSal,
  7   TO_CHAR(
  8   (
  9   SELECT AVG(Sal)
 10   FROM Emp
 11   ), '99G999D99') OrgAvgSal
 12* FROM Emp
SQL> /

    EMPNO ENAME          DEPTNO        SAL ORGSUMSAL  ORGAVGSAL
---------- ---------- ---------- ---------- ---------- ----------
     7839 KING              10       5000  29,025.00   2,073.21
     7698 BLAKE             30       2850  29,025.00   2,073.21
     7782 CLARK             10       2450  29,025.00   2,073.21
     7566 JONES             20       2975  29,025.00   2,073.21
     7654 MARTIN            30       1250  29,025.00   2,073.21
     7499 ALLEN             30       1600  29,025.00   2,073.21
     7844 TURNER            30       1500  29,025.00   2,073.21
     7900 JAMES             30        950  29,025.00   2,073.21
     7521 WARD              30       1250  29,025.00   2,073.21
     7902 FORD              20       3000  29,025.00   2,073.21
     7369 SMITH             20        800  29,025.00   2,073.21
     7788 SCOTT             20       3000  29,025.00   2,073.21
     7876 ADAMS             20       1100  29,025.00   2,073.21
     7934 MILLER            10       1300  29,025.00   2,073.21

14 rows selected.

SQL> cl scr

SQL> ED
```

```
Wrote file afiedt.buf

  1  SELECT Empno, Ename, Deptno, Sal,
  2  (
  3  SELECT 'Summary : '||SUM(Sal)||', Average : '||AVG(Sal)
  4  FROM Emp
  5  ) OrgSumSal
  6* FROM Emp
SQL> /

     EMPNO ENAME          DEPTNO        SAL
---------- ---------- ---------- ----------
ORGSUMSAL
----------------------------------------------------------------------
-----------------------------
      7839 KING               10       5000
Summary : 29025, Average : 2073.21428571428571428571428571429

      7698 BLAKE              30       2850
Summary : 29025, Average : 2073.21428571428571428571428571429

      7782 CLARK              10       2450
Summary : 29025, Average : 2073.21428571428571428571428571429

      7566 JONES              20       2975
Summary : 29025, Average : 2073.21428571428571428571428571429

      7654 MARTIN             30       1250
Summary : 29025, Average : 2073.21428571428571428571428571429


     EMPNO ENAME          DEPTNO        SAL
---------- ---------- ---------- ----------
ORGSUMSAL
----------------------------------------------------------------------
-----------------------------
      7499 ALLEN              30       1600
Summary : 29025, Average : 2073.21428571428571428571428571429

      7844 TURNER             30       1500
Summary : 29025, Average : 2073.21428571428571428571428571429

      7900 JAMES              30        950
Summary : 29025, Average : 2073.21428571428571428571428571429

      7521 WARD               30       1250
Summary : 29025, Average : 2073.21428571428571428571428571429
```

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```
      7902 FORD                 20       3000
Summary : 29025, Average : 2073.21428571428571428571428571429


      EMPNO ENAME          DEPTNO        SAL
---------- ---------- ---------- ----------
ORGSUMSAL
------------------------------------------------------------------------
----------------------------
      7369 SMITH                20        800
Summary : 29025, Average : 2073.21428571428571428571428571429

      7788 SCOTT                20       3000
Summary : 29025, Average : 2073.21428571428571428571428571429

      7876 ADAMS                20       1100
Summary : 29025, Average : 2073.21428571428571428571428571429

      7934 MILLER               10       1300
Summary : 29025, Average : 2073.21428571428571428571428571429


14 rows selected.

SQL> COL ORGSUMSAL FORMAt A120
SQL> /

      EMPNO ENAME          DEPTNO        SAL
---------- ---------- ---------- ----------
ORGSUMSAL
--------------------------------------------------------------------------
--------------------------------------------------
      7839 KING                 10       5000
Summary : 29025, Average : 2073.21428571428571428571428571429

      7698 BLAKE                30       2850
Summary : 29025, Average : 2073.21428571428571428571428571429

      7782 CLARK                10       2450
Summary : 29025, Average : 2073.21428571428571428571428571429

      7566 JONES                20       2975
Summary : 29025, Average : 2073.21428571428571428571428571429

      7654 MARTIN               30       1250
Summary : 29025, Average : 2073.21428571428571428571428571429
--------------------------------------------------------------------------
```

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```
     EMPNO ENAME          DEPTNO        SAL
---------- ---------- ---------- ----------
ORGSUMSAL
-----------------------------------------------------------------------
--------------------------------------------------
      7499 ALLEN              30       1600
Summary : 29025, Average : 2073.21428571428571428571428571429

      7844 TURNER             30       1500
Summary : 29025, Average : 2073.21428571428571428571428571429

      7900 JAMES              30        950
Summary : 29025, Average : 2073.21428571428571428571428571429

      7521 WARD               30       1250
Summary : 29025, Average : 2073.21428571428571428571428571429

      7902 FORD               20       3000
Summary : 29025, Average : 2073.21428571428571428571428571429


     EMPNO ENAME          DEPTNO        SAL
---------- ---------- ---------- ----------
ORGSUMSAL
-----------------------------------------------------------------------
--------------------------------------------------
      7369 SMITH              20        800
Summary : 29025, Average : 2073.21428571428571428571428571429

      7788 SCOTT              20       3000
Summary : 29025, Average : 2073.21428571428571428571428571429

      7876 ADAMS              20       1100
Summary : 29025, Average : 2073.21428571428571428571428571429

      7934 MILLER             10       1300
Summary : 29025, Average : 2073.21428571428571428571428571429


14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Empno, Ename, Deptno, Sal,
```

```
  2    (
  3    SELECT 'Summary : '||SUM(Sal)||', Average : '||TO_CHAR(AVG(Sal),
'9999D99')
  4    FROM Emp
  5    ) OrgSumSal
  6* FROM Emp
SQL> /

     EMPNO ENAME          DEPTNO        SAL
---------- ---------- ---------- ----------
ORGSUMSAL
--------------------------------------------------------------------------
--------------------------------------------------
      7839 KING               10       5000
Summary : 29025, Average :  2073.21

      7698 BLAKE              30       2850
Summary : 29025, Average :  2073.21

      7782 CLARK              10       2450
Summary : 29025, Average :  2073.21

      7566 JONES              20       2975
Summary : 29025, Average :  2073.21

      7654 MARTIN             30       1250
Summary : 29025, Average :  2073.21


     EMPNO ENAME          DEPTNO        SAL
---------- ---------- ---------- ----------
ORGSUMSAL
--------------------------------------------------------------------------
--------------------------------------------------
      7499 ALLEN              30       1600
Summary : 29025, Average :  2073.21

      7844 TURNER             30       1500
Summary : 29025, Average :  2073.21

      7900 JAMES              30        950
Summary : 29025, Average :  2073.21

      7521 WARD               30       1250
Summary : 29025, Average :  2073.21

      7902 FORD               20       3000
```

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```
Summary : 29025, Average :  2073.21


     EMPNO ENAME          DEPTNO        SAL
---------- ---------- ---------- ----------
ORGSUMSAL
------------------------------------------------------------------------
--------------------------------------------------
      7369 SMITH              20        800
Summary : 29025, Average :  2073.21

      7788 SCOTT              20       3000
Summary : 29025, Average :  2073.21

      7876 ADAMS              20       1100
Summary : 29025, Average :  2073.21

      7934 MILLER             10       1300
Summary : 29025, Average :  2073.21


14 rows selected.

SQL> COL ORGSUMSAL FORMAT A30
SQL> R
  1  SELECT Empno, Ename, Deptno, Sal,
  2  (
  3  SELECT 'Summary : '||SUM(Sal)||', Average : '||TO_CHAR(AVG(Sal),
'9999D99')
  4  FROM Emp
  5  ) OrgSumSal
  6* FROM Emp

     EMPNO ENAME          DEPTNO        SAL ORGSUMSAL
---------- ---------- ---------- ---------- -----------------------------
-
      7839 KING               10       5000 Summary : 29025, Average :
20
                                            73.21

      7698 BLAKE              30       2850 Summary : 29025, Average :
20
                                            73.21

      7782 CLARK              10       2450 Summary : 29025, Average :
20
                                            73.21
```

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```
20        7566 JONES              20      2975 Summary : 29025, Average :
                                               73.21

20        7654 MARTIN             30      1250 Summary : 29025, Average :
                                               73.21

20        7499 ALLEN              30      1600 Summary : 29025, Average :
                                               73.21

     EMPNO ENAME           DEPTNO     SAL ORGSUMSAL
---------- ---------- ---------- ---------- -----------------------------
-
20        7844 TURNER             30      1500 Summary : 29025, Average :
                                               73.21

20        7900 JAMES              30       950 Summary : 29025, Average :
                                               73.21

20        7521 WARD               30      1250 Summary : 29025, Average :
                                               73.21

20        7902 FORD               20      3000 Summary : 29025, Average :
                                               73.21

20        7369 SMITH              20       800 Summary : 29025, Average :
                                               73.21

20        7788 SCOTT              20      3000 Summary : 29025, Average :
                                               73.21

     EMPNO ENAME           DEPTNO     SAL ORGSUMSAL
---------- ---------- ---------- ---------- -----------------------------
-
                                               73.21

20        7876 ADAMS              20      1100 Summary : 29025, Average :
                                               73.21
------------------------------------------------------------------------
```

```
                                        73.21

        7934 MILLER                10        1300 Summary : 29025, Average :
20
                                        73.21


14 rows selected.

SQL> COL ORGSUMSAL FORMAT A40
SQL> R
  1  SELECT Empno, Ename, Deptno, Sal,
  2  (
  3  SELECT 'Summary : '||SUM(Sal)||', Average : '||TO_CHAR(AVG(Sal),
'9999D99')
  4  FROM Emp
  5  ) OrgSumSal
  6* FROM Emp

    EMPNO ENAME         DEPTNO        SAL ORGSUMSAL
---------- ---------- ---------- ---------- ------------------------------
-----------
        7839 KING              10        5000 Summary : 29025, Average :
2073.21
        7698 BLAKE             30        2850 Summary : 29025, Average :
2073.21
        7782 CLARK             10        2450 Summary : 29025, Average :
2073.21
        7566 JONES             20        2975 Summary : 29025, Average :
2073.21
        7654 MARTIN            30        1250 Summary : 29025, Average :
2073.21
        7499 ALLEN             30        1600 Summary : 29025, Average :
2073.21
        7844 TURNER            30        1500 Summary : 29025, Average :
2073.21
        7900 JAMES             30         950 Summary : 29025, Average :
2073.21
        7521 WARD              30        1250 Summary : 29025, Average :
2073.21
        7902 FORD              20        3000 Summary : 29025, Average :
2073.21
        7369 SMITH             20         800 Summary : 29025, Average :
2073.21
        7788 SCOTT             20        3000 Summary : 29025, Average :
2073.21
```

```
     7876 ADAMS                  20        1100 Summary : 29025, Average :
2073.21
     7934 MILLER                 10        1300 Summary : 29025, Average :
2073.21

14 rows selected.

SQL> cl scr

SQL> SELECT Ename, Job, Deptno, Sal
  2  FROM Emp
  3  WHERE Sal >
  4  (
  5   SELECT AVG(Sal)
  6   FROM Emp
  7   WHERE
  8
SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Job, OE.Deptno, Sal
  2  FROM Emp OE
  3  WHERE Sal >
  4  (
  5   SELECT AVG(Sal)
  6   FROM Emp IE
  7   WHERE IE.Deptno = OE.Deptno
  8* )
SQL> /

ENAME      JOB          DEPTNO       SAL
---------- --------- ---------- ----------
KING       PRESIDENT         10       5000
BLAKE      MANAGER           30       2850
JONES      MANAGER           20       2975
ALLEN      SALESMAN          30       1600
FORD       ANALYST           20       3000
SCOTT      ANALYST           20       3000

6 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Job, OE.Deptno, Sal
  2  FROM Emp OE,
  3  (
```

```
    4    SELECT Deptno, AVG(Sal) SalAvg
    5    FROM Emp IE
    6    GROUP BY Deptno
    7    ) IE
    8*   WHERE OE.Deptno = IE.Deptno AND OE.Sal > IE.SalAvg
    9    /


ENAME         JOB          DEPTNO         SAL
----------    ---------    ----------    ----------
ALLEN         SALESMAN         30          1600
BLAKE         MANAGER          30          2850
SCOTT         ANALYST          20          3000
FORD          ANALYST          20          3000
JONES         MANAGER          20          2975
KING          PRESIDENT        10          5000


6 rows selected.

SQL> SET AUTOTRACE ON EXPLAIN
SQL> R
    1    SELECT Ename, Job, OE.Deptno, Sal
    2    FROM Emp OE,
    3    (
    4    SELECT Deptno, AVG(Sal) SalAvg
    5    FROM Emp IE
    6    GROUP BY Deptno
    7    ) IE
    8*   WHERE OE.Deptno = IE.Deptno AND OE.Sal > IE.SalAvg


ENAME         JOB          DEPTNO         SAL
----------    ---------    ----------    ----------
ALLEN         SALESMAN         30          1600
BLAKE         MANAGER          30          2850
SCOTT         ANALYST          20          3000
FORD          ANALYST          20          3000
JONES         MANAGER          20          2975
KING          PRESIDENT        10          5000


6 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 2230095667

--------------------------------------------------------------------------
----

--------------------------------------------------------------------------------
```

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```
| Id  | Operation             | Name | Rows  | Bytes | Cost (%CPU)| Time     |
------------------------------------------------------------------------------
|   0 | SELECT STATEMENT      |      |     3 |   195 |     8  (25)| 00:00:01 |
|*  1 |  HASH JOIN            |      |     3 |   195 |     8  (25)| 00:00:01 |
|   2 |   TABLE ACCESS FULL   | EMP  |    14 |   546 |     3   (0)| 00:00:01 |
|   3 |   VIEW                |      |    14 |   364 |     4  (25)| 00:00:01 |
|   4 |    HASH GROUP BY      |      |    14 |   364 |     4  (25)| 00:00:01 |
|   5 |     TABLE ACCESS FULL | EMP  |    14 |   364 |     3   (0)| 00:00:01 |
------------------------------------------------------------------------------

Predicate Information (identified by operation id):
---------------------------------------------------

   1 - access("OE"."DEPTNO"="IE"."DEPTNO")
       filter("OE"."SAL">"IE"."SALAVG")

Note
-----
   - dynamic sampling used for this statement (level=2)

SQL> SELECT Ename, Job, OE.Deptno, Sal
  2  FROM Emp OE
  3  WHERE Sal >
  4      (
  5      SELECT AVG(Sal)
  6      FROM Emp IE
  7      WHERE IE.Deptno = OE.Deptno
  8      );

ENAME      JOB           DEPTNO        SAL
---------- --------- ---------- ----------
KING       PRESIDENT         10       5000
BLAKE      MANAGER           30       2850
JONES      MANAGER           20       2975
ALLEN      SALESMAN          30       1600
FORD       ANALYST           20       3000
SCOTT      ANALYST           20       3000
```

```
6 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 2649664444

---------------------------------------------------------------------------
---
| Id  | Operation           | Name | Rows  | Bytes | Cost (%CPU)| Time
|
---------------------------------------------------------------------------
---
|   0 | SELECT STATEMENT    |      |     3 |   117 |     6   (0)|
00:00:01 |
|*  1 |  FILTER             |      |       |       |            |
|
|   2 |   TABLE ACCESS FULL | EMP  |    14 |   546 |     3   (0)|
00:00:01 |
|   3 |   SORT AGGREGATE    |      |     1 |    26 |            |
|
|*  4 |    TABLE ACCESS FULL| EMP  |     1 |    26 |     3   (0)|
00:00:01 |
---------------------------------------------------------------------------
---


Predicate Information (identified by operation id):
---------------------------------------------------

   1 - filter("SAL"> (SELECT AVG("SAL") FROM "EMP" "IE" WHERE
             "IE"."DEPTNO"=:B1))
   4 - filter("IE"."DEPTNO"=:B1)

Note
-----
   - dynamic sampling used for this statement (level=2)

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Job, OE.Deptno, Sal, SalAvg
  2   FROM Emp OE,
  3      (
  4      SELECT Deptno, AVG(Sal) SalAvg
  5      FROM Emp IE
  6      GROUP BY Deptno
  7      ) IE
```

```
   8* WHERE OE.Deptno = IE.Deptno AND OE.Sal > IE.SalAvg
SQL> /

ENAME        JOB          DEPTNO        SAL     SALAVG
---------- ---------- ---------- ---------- ----------
ALLEN        SALESMAN         30       1600 1566.66667
BLAKE        MANAGER          30       2850 1566.66667
SCOTT        ANALYST          20       3000       2175
FORD         ANALYST          20       3000       2175
JONES        MANAGER          20       2975       2175
KING         PRESIDENT        10       5000 2916.66667

6 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 2230095667

--------------------------------------------------------------------
----
| Id  | Operation              | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------
----
|   0 | SELECT STATEMENT       |      |     3 |   195 |     8  (25)|
00:00:01 |
|*  1 |  HASH JOIN             |      |     3 |   195 |     8  (25)|
00:00:01 |
|   2 |   TABLE ACCESS FULL    | EMP  |    14 |   546 |     3   (0)|
00:00:01 |
|   3 |   VIEW                 |      |    14 |   364 |     4  (25)|
00:00:01 |
|   4 |    HASH GROUP BY       |      |    14 |   364 |     4  (25)|
00:00:01 |
|   5 |     TABLE ACCESS FULL  | EMP  |    14 |   364 |     3   (0)|
00:00:01 |
--------------------------------------------------------------------
----

Predicate Information (identified by operation id):
---------------------------------------------------

   1 - access("OE"."DEPTNO"="IE"."DEPTNO")
       filter("OE"."SAL">"IE"."SALAVG")

Note
```

```
-----
   - dynamic sampling used for this statement (level=2)

SQL> cl scr

SQL> SELECT Empno, Ename, E.Deptno, Sal, MGR
  2  FROM Emp E
  3  WHERE E.Sal >
  4  (
  5   SELECT M.Sal
  6   FROM Emp M
  7   WHERE M.Empno = E.MGR
  8   );

     EMPNO ENAME          DEPTNO        SAL        MGR
---------- ---------- ---------- ---------- ----------
      7902 FORD               20       3000       7566
      7788 SCOTT              20       3000       7566


Execution Plan
----------------------------------------------------------
Plan hash value: 2985774579


--------------------------------------------------------------------------
-----------------------
| Id  | Operation                   | Name            | Rows  | Bytes |
Cost (%CPU)| Time      |
--------------------------------------------------------------------------
-----------------------
|   0 | SELECT STATEMENT            |                 |     1 |    59 |
4    (0)| 00:00:01 |
|*  1 |  FILTER                     |                 |       |       |
|          |
|   2 |   TABLE ACCESS FULL         | EMP             |    14 |   826 |
3    (0)| 00:00:01 |
|   3 |   TABLE ACCESS BY INDEX ROWID| EMP            |     1 |    26 |
1    (0)| 00:00:01 |
|*  4 |    INDEX UNIQUE SCAN        | EMP_PRIMARY_KEY |     1 |       |
1    (0)| 00:00:01 |
--------------------------------------------------------------------------
-----------------------


Predicate Information (identified by operation id):
---------------------------------------------------
```

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```
    1 - filter("E"."SAL"> (SELECT "M"."SAL" FROM "EMP" "M" WHERE
"M"."EMPNO"=:B1))
    4 - access("M"."EMPNO"=:B1)


Note
-----
    - dynamic sampling used for this statement (level=2)

SQL> SET AUTOTRACE OFF EXPLAIN
SQL> SELECT Ename, Sal
  2  FROM Emp
  3  WHERE Empno = 7566;

ENAME              SAL
---------- ----------
JONES             2975

SQL> cl scr

SQL> SELECT Deptno, Dname
  2  FROM Dept D;

    DEPTNO DNAME
---------- --------------
        10 ACCOUNTING
        20 RESEARCH
        30 SALES
        40 OPERATIONS

SQL> ED
Wrote file afiedt.buf

  1  SELECT DISTINCT Deptno, Dname
  2  FROM Dept D, Emp E
  3* WHERE D.Deptno = E.Deptno
SQL> /
SELECT DISTINCT Deptno, Dname
                    *
ERROR at line 1:
ORA-00918: column ambiguously defined


SQL> ED
Wrote file afiedt.buf

  1  SELECT DISTINCT D.Deptno, Dname
  2  FROM Dept D, Emp E
```

```
   3* WHERE D.Deptno = E.Deptno
SQL> /

    DEPTNO DNAME
---------- --------------
        10 ACCOUNTING
        20 RESEARCH
        30 SALES

SQL> ED
Wrote file afiedt.buf

   1   SELECT D.Deptno, Dname
   2   FROM Dept D, Emp E
   3   WHERE D.Deptno = E.Deptno
   4*  GROUP BY D.Deptno, Dname
SQL> /

    DEPTNO DNAME
---------- --------------
        10 ACCOUNTING
        20 RESEARCH
        30 SALES

SQL> ED
Wrote file afiedt.buf

   1   SELECT D.Deptno, Dname
   2   FROM Dept D
   3   WHERE D.Deptno IN
   4    (
   5     SELECT Deptno
   6     FROM Emp
   7*   )
SQL> /

    DEPTNO DNAME
---------- --------------
        10 ACCOUNTING
        30 SALES
        20 RESEARCH

SQL> ED
Wrote file afiedt.buf

   1   SELECT D.Deptno, Dname
   2   FROM Dept D
```

```
  3   WHERE D.Deptno IN
  4   (
  5   SELECT DISTINCT Deptno
  6   FROM Emp
  7*  )
SQL> /

    DEPTNO DNAME
---------- --------------
        10 ACCOUNTING
        30 SALES
        20 RESEARCH

SQL> ED
Wrote file afiedt.buf

  1   SELECT D.Deptno, Dname
  2   FROM Dept D
  3   WHERE D.Deptno IN
  4   (
  5   SELECT Deptno
  6   FROM Emp
  7   GROUP BY Deptno
  8*  )
SQL> /

    DEPTNO DNAME
---------- --------------
        30 SALES
        20 RESEARCH
        10 ACCOUNTING

SQL> ED
Wrote file afiedt.buf

  1   SELECT D.Deptno, Dname
  2   FROM Dept D
  3   WHERE D.Deptno IN
  4   (
  5   SELECT Deptno
  6   FROM Emp E
  7   WHERE E.Deptno = D.Deptno
  8*  )
SQL> /

    DEPTNO DNAME
---------- --------------
```

```
            10 ACCOUNTING
            30 SALES
            20 RESEARCH

SQL> SELECT Deptno, Dname
  2  FROM Dept D
  3  WHERE  EXISTS
  4   (
  5   SELECT *
  6   FROM Emp E
  7   WHERE D.Deptno = E.Deptno
  8   );

    DEPTNO DNAME
---------- --------------
            10 ACCOUNTING
            30 SALES
            20 RESEARCH

SQL> ED
Wrote file afiedt.buf

  1   SELECT Deptno, Dname
  2   FROM Dept D
  3   WHERE  EXISTS
  4    (
  5    SELECT Deptno
  6    FROM Emp E
  7    WHERE D.Deptno = E.Deptno
  8*   )
SQL> /

    DEPTNO DNAME
---------- --------------
            10 ACCOUNTING
            30 SALES
            20 RESEARCH

SQL> ED
Wrote file afiedt.buf

  1   SELECT Deptno, Dname
  2   FROM Dept D
  3   WHERE  EXISTS
  4    (
  5    SELECT 1
  6    FROM Emp E
```

```
  7   WHERE D.Deptno = E.Deptno
  8*  )
SQL> /

    DEPTNO DNAME
---------- --------------
        10 ACCOUNTING
        30 SALES
        20 RESEARCH

SQL> ED
Wrote file afiedt.buf

  1   SELECT Deptno, Dname
  2   FROM Dept D
  3   WHERE  NOT EXISTS
  4    (
  5    SELECT 1
  6    FROM Emp E
  7    WHERE D.Deptno = E.Deptno
  8*  )
SQL> /

    DEPTNO DNAME
---------- --------------
        40 OPERATIONS

SQL> SELECT E.Ename
  2   FROM Emp E
  3   WHERE EXISTS
  4    (
  5    SELECT *
  6    FROM Emp E1
  7    WHERE E1.Empno = E.Mgr
  8    );

ENAME
----------
BLAKE
CLARK
JONES
MARTIN
ALLEN
TURNER
JAMES
WARD
FORD
```

```
SMITH
SCOTT
ADAMS
MILLER

13 rows selected.

SQL> ED
Wrote file afiedt.buf

    1   SELECT E.Ename
    2   FROM Emp E
    3   WHERE NOT EXISTS
    4   (
    5    SELECT *
    6    FROM Emp E1
    7    WHERE E1.Empno = E.Mgr
    8*  )
SQL> /

ENAME
----------
KING

SQL> SELECT E.Ename
    2   FROM Emp E
    3   WHERE EXISTS
    4   (
    5    SELECT *
    6    FROM Emp E1
    7    WHERE E1.Mgr = E.Empno
    8    );

ENAME
----------
KING
BLAKE
JONES
FORD
SCOTT
CLARK

6 rows selected.

SQL> ED
Wrote file afiedt.buf
```

```
  1   SELECT E.Ename
  2   FROM Emp E
  3   WHERE NOT EXISTS
  4   (
  5    SELECT *
  6    FROM Emp E1
  7    WHERE E1.Mgr = E.Empno
  8*  )
SQL> /

ENAME
----------
TURNER
WARD
MARTIN
ALLEN
MILLER
SMITH
ADAMS
JAMES

8 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT E.Ename, Sal, Comm
  2   FROM Emp E
  3   WHERE EXISTS
  4   (
  5    SELECT *
  6    FROM Emp E1
  7    WHERE E1.Comm = E.Comm
  8*  )
SQL> /

ENAME            SAL       COMM
---------- ---------- ----------
MARTIN           1250       1400
ALLEN            1600        300
TURNER           1500          0
WARD             1250        500

SQL> ED
Wrote file afiedt.buf

  1   SELECT E.Ename, Sal, Comm
```

```
    2   FROM Emp E
    3   WHERE NOT EXISTS
    4   (
    5    SELECT *
    6    FROM Emp E1
    7    WHERE E1.Comm = E.Comm
    8*  )
SQL> /

ENAME            SAL       COMM
---------- ---------- ----------
MILLER          1300
ADAMS           1100
SCOTT           3000
SMITH            800
FORD            3000
JAMES            950
JONES           2975
CLARK           2450
BLAKE           2850
KING            5000

10 rows selected.

SQL> SPOOL OFF
```

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