Spool File For Oracle Students Trained by Mr.Sathish Yellanki

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Announcing A New Batch For
Oracle SQL And PL/SQL 11g R2
(Covering In-Depth Syllabus With Industry Oriented Focus)
By
S a t h i s h   Y e l l a n k i

Date : 2nd May, 2018	Time: 4 PM To 5 PM

For Enquiries And Registrations Contact

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```
SQL> cl scr

SQL> SELECT
  2  C.Name, O.OrdID, I.ItemID, I.Itemtot, O.Total
  3  FROM Customer C, Ord O, Item I
  4  WHERE C.CustID = O.CustID
  5  AND O.OrdID = I.OrdID
  6  AND C.Name = 'TKB SPORT SHOP';

NAME                                               ORDID      ITEMID
ITEMTOT     TOTAL
-------------------------------------------------- ---------- ---------- -----
----- ----------
TKB SPORT SHOP                                        610           2
8.4      101.4
TKB SPORT SHOP                                        610           1
35       101.4
TKB SPORT SHOP                                        610           3
58       101.4

SQL> cl scr

SQL> SELECT
  2  E.Ename EmpName,
  3  E.Deptno EmpDeptno,
  4  M.Ename MGRName,
  5  M.Deptno MGRDeptno
  6  FROM Emp E, Dept D, Emp M
  7  WHERE E.MGR = M.Empno AND
  8             E.Deptno = D.Deptno;

EMPNAME    EMPDEPTNO MGRNAME    MGRDEPTNO
---------- ---------- ---------- ----------
JONES            20 KING              10
CLARK            10 KING              10
BLAKE            30 KING              10
WARD             30 BLAKE             30
JAMES            30 BLAKE             30
TURNER           30 BLAKE             30
ALLEN            30 BLAKE             30
MARTIN           30 BLAKE             30
MILLER           10 CLARK             10
SCOTT            20 JONES             20
FORD             20 JONES             20
SMITH            20 FORD              20
ADAMS            20 SCOTT             20
```

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Follow Me: https://www.facebook.com/satishkumar.yellanki
http://yellankisathish.com/

```
13 rows selected.

SQL> SET AUTOTRACE ON EXPLAIN
SQL> R
  1  SELECT
  2  E.Ename EmpName,
  3  E.Deptno EmpDeptno,
  4  M.Ename MGRName,
  5  M.Deptno MGRDeptno
  6  FROM Emp E, Dept D, Emp M
  7  WHERE E.MGR = M.Empno AND
  8*          E.Deptno = D.Deptno

EMPNAME      EMPDEPTNO MGRNAME     MGRDEPTNO
---------- ---------- ---------- ----------
JONES              20 KING               10
CLARK              10 KING               10
BLAKE              30 KING               10
WARD               30 BLAKE              30
JAMES              30 BLAKE              30
TURNER             30 BLAKE              30
ALLEN              30 BLAKE              30
MARTIN             30 BLAKE              30
MILLER             10 CLARK              10
SCOTT              20 JONES              20
FORD               20 JONES              20
SMITH              20 FORD               20
ADAMS              20 SCOTT              20

13 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 3638257876

--------------------------------------------------------------------------
--
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------------
--
|   0 | SELECT STATEMENT   |      |    13 |   858 |     7  (15)| 00:00:01
|
|*  1 |  HASH JOIN         |      |    13 |   858 |     7  (15)| 00:00:01
|
```

```
|   2 |    TABLE ACCESS FULL| EMP  |   14 |  462 |    3   (0)| 00:00:01
|
|   3 |    TABLE ACCESS FULL| EMP  |   14 |  462 |    3   (0)| 00:00:01
|
--------------------------------------------------------------------------
--

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

   1 - access("E"."MGR"="M"."EMPNO")

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

SQL> cl scr

SQL> SELECT
  2  E.Ename EmpName,
  3  Dname EmpDname,
  4  Loc EmpPlace,
  5  M.Ename MGRName,
  6  Dname MGRDname
  7  FROM Emp E, Dept D, Emp M
  8  WHERE E.MGR = M.Empno AND
  9          E.Deptno = D.Deptno;

EMPNAME    EMPDNAME      EMPPLACE      MGRNAME    MGRDNAME
---------- ------------- ------------- ---------- --------------
JONES      RESEARCH      DALLAS        KING       RESEARCH
CLARK      ACCOUNTING    NEW YORK      KING       ACCOUNTING
BLAKE      SALES         CHICAGO       KING       SALES
WARD       SALES         CHICAGO       BLAKE      SALES
JAMES      SALES         CHICAGO       BLAKE      SALES
TURNER     SALES         CHICAGO       BLAKE      SALES
ALLEN      SALES         CHICAGO       BLAKE      SALES
MARTIN     SALES         CHICAGO       BLAKE      SALES
MILLER     ACCOUNTING    NEW YORK      CLARK      ACCOUNTING
SCOTT      RESEARCH      DALLAS        JONES      RESEARCH
FORD       RESEARCH      DALLAS        JONES      RESEARCH
SMITH      RESEARCH      DALLAS        FORD       RESEARCH
ADAMS      RESEARCH      DALLAS        SCOTT      RESEARCH

13 rows selected.
```

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```
Execution Plan
----------------------------------------------------------
Plan hash value: 453895177

---------------------------------------------------------------------------
---
| Id  | Operation            | Name | Rows  | Bytes | Cost (%CPU)| Time
|
---------------------------------------------------------------------------
---
|   0 | SELECT STATEMENT     |      |    13 |  1079 |    10  (10)| Time
00:00:01 |
|*  1 |  HASH JOIN           |      |    13 |  1079 |    10  (10)|
00:00:01 |
|*  2 |   HASH JOIN          |      |    14 |   882 |     7  (15)|
00:00:01 |
|   3 |    TABLE ACCESS FULL | DEPT |     4 |   120 |     3   (0)|
00:00:01 |
|   4 |    TABLE ACCESS FULL | EMP  |    14 |   462 |     3   (0)|
00:00:01 |
|   5 |   TABLE ACCESS FULL  | EMP  |    14 |   280 |     3   (0)|
00:00:01 |
---------------------------------------------------------------------------
---


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

   1 - access("E"."MGR"="M"."EMPNO")
   2 - access("E"."DEPTNO"="D"."DEPTNO")

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

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  E.Ename EmpName,
  3  Dname EmpDname,
  4  Loc EmpPlace,
  5  M.Ename MGRName,
  6  Dname MGRDname
  7  FROM Emp E, Dept D, Emp M
  8  WHERE E.MGR = M.Empno AND
  9*          M.Deptno = D.Deptno
```

```
SQL> /

EMPNAME     EMPDNAME        EMPPLACE        MGRNAME     MGRDNAME
----------  --------------  --------------  ----------  --------------
BLAKE       ACCOUNTING      NEW YORK        KING        ACCOUNTING
CLARK       ACCOUNTING      NEW YORK        KING        ACCOUNTING
JONES       ACCOUNTING      NEW YORK        KING        ACCOUNTING
MARTIN      SALES           CHICAGO         BLAKE       SALES
ALLEN       SALES           CHICAGO         BLAKE       SALES
TURNER      SALES           CHICAGO         BLAKE       SALES
JAMES       SALES           CHICAGO         BLAKE       SALES
WARD        SALES           CHICAGO         BLAKE       SALES
FORD        RESEARCH        DALLAS          JONES       RESEARCH
SMITH       RESEARCH        DALLAS          FORD        RESEARCH
SCOTT       RESEARCH        DALLAS          JONES       RESEARCH
ADAMS       RESEARCH        DALLAS          SCOTT       RESEARCH
MILLER      ACCOUNTING      NEW YORK        CLARK       ACCOUNTING

13 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 453895177

---------------------------------------------------------------------------
| Id  | Operation           | Name | Rows  | Bytes | Cost (%CPU)| Time     |
---------------------------------------------------------------------------
|   0 | SELECT STATEMENT    |      |   13  |  1079 |   10  (10)| 00:00:01 |
|*  1 |  HASH JOIN          |      |   13  |  1079 |   10  (10)| 00:00:01 |
|*  2 |   HASH JOIN         |      |   14  |   882 |    7  (15)| 00:00:01 |
|   3 |    TABLE ACCESS FULL| DEPT |    4  |   120 |    3   (0)| 00:00:01 |
|   4 |    TABLE ACCESS FULL| EMP  |   14  |   462 |    3   (0)| 00:00:01 |
|   5 |   TABLE ACCESS FULL | EMP  |   14  |   280 |    3   (0)| 00:00:01 |
---------------------------------------------------------------------------

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

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

   1 - access("E"."MGR"="M"."EMPNO")
   2 - access("M"."DEPTNO"="D"."DEPTNO")

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

SQL> SELECT
  2   E.Ename EmpName,
  3   DE.Dname EmpDname,
  4   DE.Loc EmpLoc,
  5   M.Ename MGRName,
  6   DM.Dname MGRDname
  7   FROM Emp E, Dept DE, Emp M, Dept DM
  8   WHERE E.MGR = M.Empno AND
  9              E.Deptno = DE.Deptno AND
 10              M.Deptno = DM.Deptno
 11  ORDER BY E.Deptno;

EMPNAME     EMPDNAME       EMPLOC        MGRNAME    MGRDNAME
---------- -------------- ------------- ---------- --------------
MILLER      ACCOUNTING     NEW YORK      CLARK      ACCOUNTING
CLARK       ACCOUNTING     NEW YORK      KING       ACCOUNTING
FORD        RESEARCH       DALLAS        JONES      RESEARCH
SCOTT       RESEARCH       DALLAS        JONES      RESEARCH
SMITH       RESEARCH       DALLAS        FORD       RESEARCH
ADAMS       RESEARCH       DALLAS        SCOTT      RESEARCH
JONES       RESEARCH       DALLAS        KING       ACCOUNTING
JAMES       SALES          CHICAGO       BLAKE      SALES
WARD        SALES          CHICAGO       BLAKE      SALES
TURNER      SALES          CHICAGO       BLAKE      SALES
ALLEN       SALES          CHICAGO       BLAKE      SALES
MARTIN      SALES          CHICAGO       BLAKE      SALES
BLAKE       SALES          CHICAGO       KING       ACCOUNTING

13 rows selected.


Execution Plan
-------------------------------------------------------------
Plan hash value: 2338580531


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

```
| Id  | Operation            | Name | Rows  | Bytes | Cost (%CPU)| Time
|
-------------------------------------------------------------------------
-----
|   0 | SELECT STATEMENT     |      |  13 | 1534 |   15  (20)|
00:00:01 |
|   1 |  SORT ORDER BY       |      |  13 | 1534 |   15  (20)|
00:00:01 |
|*  2 |   HASH JOIN          |      |  13 | 1534 |   14  (15)|
00:00:01 |
|*  3 |    HASH JOIN         |      |  13 | 1248 |   10  (10)|
00:00:01 |
|*  4 |     HASH JOIN        |      |  14 |  882 |    7  (15)|
00:00:01 |
|   5 |      TABLE ACCESS FULL| DEPT |   4 |  120 |    3   (0)|
00:00:01 |
|   6 |      TABLE ACCESS FULL| EMP  |  14 |  462 |    3   (0)|
00:00:01 |
|   7 |     TABLE ACCESS FULL | EMP  |  14 |  462 |    3   (0)|
00:00:01 |
|   8 |    TABLE ACCESS FULL  | DEPT |   4 |   88 |    3   (0)|
00:00:01 |
-------------------------------------------------------------------------
-----


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

   2 - access("M"."DEPTNO"="DM"."DEPTNO")
   3 - access("E"."MGR"="M"."EMPNO")
   4 - access("E"."DEPTNO"="DE"."DEPTNO")

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

SQL> cl scr

SQL> SELECT
  2  E.Ename EmpName,
  3  E.Sal EmpSal,
  4  M.Ename MGRName,
  5  M.Sal EmpSal,
  6  Dname MGRDname
  7  FROM Emp E, Dept D, Emp M
  8  WHERE E.Deptno = D.Deptno  AND
  9  E.MGR = M.Empno;
```

```
EMPNAME        EMPSAL MGRNAME        EMPSAL MGRDNAME
---------- ---------- ---------- ---------- --------------
JONES            2975 KING            5000 RESEARCH
CLARK            2450 KING            5000 ACCOUNTING
BLAKE            2850 KING            5000 SALES
WARD             1250 BLAKE           2850 SALES
JAMES             950 BLAKE           2850 SALES
TURNER           1500 BLAKE           2850 SALES
ALLEN            1600 BLAKE           2850 SALES
MARTIN           1250 BLAKE           2850 SALES
MILLER           1300 CLARK           2450 ACCOUNTING
SCOTT            3000 JONES           2975 RESEARCH
FORD             3000 JONES           2975 RESEARCH
SMITH             800 FORD            3000 RESEARCH
ADAMS            1100 SCOTT           3000 RESEARCH

13 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 453895177


------------------------------------------------------------------------
---
| Id  | Operation            | Name | Rows  | Bytes | Cost (%CPU)| Time
|
------------------------------------------------------------------------
---
|   0 | SELECT STATEMENT     |      |    14 |  1414 |    10  (10)|
00:00:01 |
|*  1 |  HASH JOIN           |      |    14 |  1414 |    10  (10)|
00:00:01 |
|*  2 |   HASH JOIN          |      |    14 |   952 |     7  (15)|
00:00:01 |
|   3 |    TABLE ACCESS FULL| DEPT |     4 |    88 |     3   (0)|
00:00:01 |
|   4 |    TABLE ACCESS FULL| EMP  |    14 |   644 |     3   (0)|
00:00:01 |
|   5 |   TABLE ACCESS FULL | EMP  |    14 |   462 |     3   (0)|
00:00:01 |
------------------------------------------------------------------------
---


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

```
   1 - access("E"."MGR"="M"."EMPNO")
   2 - access("E"."DEPTNO"="D"."DEPTNO")

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

SQL> ED
Wrote file afiedt.buf

   1  SELECT
   2  E.Ename EmpName,
   3  E.Sal EmpSal,
   4  M.Ename MGRName,
   5  M.Sal EmpSal,
   6  Dname MGRDname
   7  FROM Emp E, Dept D, Emp M
   8  WHERE M.Deptno = D.Deptno  AND
   9* E.MGR = M.Empno
SQL> /


EMPNAME        EMPSAL MGRNAME        EMPSAL MGRDNAME
---------- ---------- ---------- ---------- --------------
BLAKE            2850 KING             5000 ACCOUNTING
CLARK            2450 KING             5000 ACCOUNTING
JONES            2975 KING             5000 ACCOUNTING
MARTIN           1250 BLAKE            2850 SALES
ALLEN            1600 BLAKE            2850 SALES
TURNER           1500 BLAKE            2850 SALES
JAMES             950 BLAKE            2850 SALES
WARD             1250 BLAKE            2850 SALES
FORD             3000 JONES            2975 RESEARCH
SMITH             800 FORD             3000 RESEARCH
SCOTT            3000 JONES            2975 RESEARCH
ADAMS            1100 SCOTT            3000 RESEARCH
MILLER           1300 CLARK            2450 ACCOUNTING

13 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 453895177


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

```

```
| Id  | Operation           | Name | Rows  | Bytes | Cost (%CPU)| Time
|
---------------------------------------------------------------------------
---
|   0 | SELECT STATEMENT    |      |   30 |  3030 |   10  (10)|
00:00:01 |
|*  1 |  HASH JOIN          |      |   30 |  3030 |   10  (10)|
00:00:01 |
|*  2 |   HASH JOIN         |      |   14 |   952 |    7  (15)|
00:00:01 |
|   3 |    TABLE ACCESS FULL| DEPT |    4 |    88 |    3   (0)|
00:00:01 |
|   4 |    TABLE ACCESS FULL| EMP  |   14 |   644 |    3   (0)|
00:00:01 |
|   5 |   TABLE ACCESS FULL | EMP  |   14 |   462 |    3   (0)|
00:00:01 |
---------------------------------------------------------------------------
---


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

   1 - access("E"."MGR"="M"."EMPNO")
   2 - access("M"."DEPTNO"="D"."DEPTNO")

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

SQL> ED
Wrote file afiedt.buf

  1   SELECT
  2   E.Ename EmpName,
  3   E.Sal EmpSal,
  4   Dname EmpDname,
  5   M.Ename MGRName,
  6   M.Sal EmpSal,
  7   Dname MGRDname
  8   FROM Emp E, Dept D, Emp M
  9   WHERE M.Deptno = D.Deptno   AND
 10* E.MGR = M.Empno
SQL> /


EMPNAME         EMPSAL EMPDNAME        MGRNAME         EMPSAL MGRDNAME
---------- ---------- -------------- ---------- ---------- --------------
BLAKE          2850 ACCOUNTING     KING            5000 ACCOUNTING
```

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

13 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 453895177

---------------------------------------------------------------------------
| Id  | Operation            | Name | Rows  | Bytes | Cost (%CPU)| Time    |
---------------------------------------------------------------------------
|   0 | SELECT STATEMENT     |      |    30 |  3030 |    10  (10)| 00:00:01 |
|*  1 |  HASH JOIN           |      |    30 |  3030 |    10  (10)| 00:00:01 |
|*  2 |   HASH JOIN          |      |    14 |   952 |     7  (15)| 00:00:01 |
|   3 |    TABLE ACCESS FULL| DEPT |     4 |    88 |     3   (0)| 00:00:01 |
|   4 |    TABLE ACCESS FULL| EMP  |    14 |   644 |     3   (0)| 00:00:01 |
|   5 |   TABLE ACCESS FULL | EMP  |    14 |   462 |     3   (0)| 00:00:01 |
---------------------------------------------------------------------------

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

   1 - access("E"."MGR"="M"."EMPNO")
   2 - access("M"."DEPTNO"="D"."DEPTNO")
```

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

SQL> SELECT
  2  E.Ename EmpName,
  3  E.Sal EmpSal,
  4  DE.Dname EmpDname,
  5  M.Ename MGRName,
  6  M.Sal MGRSal,
  7  DM.Dname MGRDname
  8  FROM Emp E, Dept DE, Emp M, Dept DM
  9  WHERE E.Deptno = DE.Deptno  AND
 10  M.Deptno = DM.Deptno AND
 11  E.MGR = M.Empno;

EMPNAME         EMPSAL EMPDNAME       MGRNAME        MGRSAL MGRDNAME
---------- ---------- -------------- ---------- ---------- --------------
MILLER           1300 ACCOUNTING     CLARK            2450 ACCOUNTING
BLAKE            2850 SALES          KING             5000 ACCOUNTING
CLARK            2450 ACCOUNTING     KING             5000 ACCOUNTING
JONES            2975 RESEARCH       KING             5000 ACCOUNTING
ADAMS            1100 RESEARCH       SCOTT            3000 RESEARCH
SMITH             800 RESEARCH       FORD             3000 RESEARCH
FORD             3000 RESEARCH       JONES            2975 RESEARCH
SCOTT            3000 RESEARCH       JONES            2975 RESEARCH
MARTIN           1250 SALES          BLAKE            2850 SALES
ALLEN            1600 SALES          BLAKE            2850 SALES
TURNER           1500 SALES          BLAKE            2850 SALES
JAMES             950 SALES          BLAKE            2850 SALES
WARD             1250 SALES          BLAKE            2850 SALES

13 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 328152207


--------------------------------------------------------------------------
----
| Id | Operation           | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------------
----
|  0 | SELECT STATEMENT    |      |   14 | 1904 |   14  (15)|
00:00:01 |
```

```
|*  1 |   HASH JOIN              |        |   14 |  1904 |   14  (15)|
00:00:01 |
|*  2 |    HASH JOIN             |        |   14 |  1596 |   10  (10)|
00:00:01 |
|*  3 |     HASH JOIN            |        |   14 |   952 |    7  (15)|
00:00:01 |
|   4 |      TABLE ACCESS FULL| DEPT |    4 |    88 |    3   (0)|
00:00:01 |
|   5 |      TABLE ACCESS FULL| EMP  |   14 |   644 |    3   (0)|
00:00:01 |
|   6 |     TABLE ACCESS FULL | EMP  |   14 |   644 |    3   (0)|
00:00:01 |
|   7 |    TABLE ACCESS FULL  | DEPT |    4 |    88 |    3   (0)|
00:00:01 |
--------------------------------------------------------------------
----

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

   1 - access("M"."DEPTNO"="DM"."DEPTNO")
   2 - access("E"."MGR"="M"."EMPNO")
   3 - access("E"."DEPTNO"="DE"."DEPTNO")

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

SQL> cl scr

SQL> COLUMN EmpName FORMAT A14
SQL> COLUMN "Employee's Dept" FORMAT A10
SQL> COLUMN Manager FORMAT A15
SQL> COLUMN "Manager's Dept" FORMAT A15
SQL> SELECT
  2  NVL(E.Ename, 'Not Recruited') EmpName,
  3  DE.Dname EmpDname,
  4  NVL(M.Ename, 'NULL Manager') MGRName,
  5  NVL(DM.Dname, 'Not Recruited') MGRDname,
  6  DE.Deptno MGRDeptno
  7  FROM Emp E, Dept DE, Emp M, Dept DM
  8  WHERE E.Deptno(+) = DE.Deptno  AND
  9  M.Deptno = DM.Deptno(+) AND
 10  E.MGR = M.Empno(+);

EMPNAME        EMPDNAME       MGRNAME      MGRDNAME       MGRDEPTNO
-------------- -------------- ------------ -------------- ----------
```

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```
MILLER          ACCOUNTING     CLARK          ACCOUNTING          10
BLAKE           SALES          KING           ACCOUNTING          30
CLARK           ACCOUNTING     KING           ACCOUNTING          10
JONES           RESEARCH       KING           ACCOUNTING          20
ADAMS           RESEARCH       SCOTT          RESEARCH            20
SMITH           RESEARCH       FORD           RESEARCH            20
FORD            RESEARCH       JONES          RESEARCH            20
SCOTT           RESEARCH       JONES          RESEARCH            20
MARTIN          SALES          BLAKE          SALES               30
ALLEN           SALES          BLAKE          SALES               30
TURNER          SALES          BLAKE          SALES               30
JAMES           SALES          BLAKE          SALES               30
WARD            SALES          BLAKE          SALES               30
KING            ACCOUNTING     NULL Manager Not Recruited         10
Not Recruited   OPERATIONS     NULL Manager Not Recruited         40

15 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 680490465

--------------------------------------------------------------------------
----
| Id  | Operation              | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------------
----
|   0 | SELECT STATEMENT       |      |    14 |  1540 |    14  (15)|
00:00:01 |
|*  1 |  HASH JOIN OUTER       |      |    14 |  1540 |    14  (15)|
00:00:01 |
|*  2 |   HASH JOIN OUTER      |      |    14 |  1232 |    10  (10)|
00:00:01 |
|*  3 |    HASH JOIN OUTER     |      |    14 |   770 |     7  (15)|
00:00:01 |
|   4 |     TABLE ACCESS FULL| DEPT |     4 |    88 |     3   (0)|
00:00:01 |
|   5 |     TABLE ACCESS FULL| EMP  |    14 |   462 |     3   (0)|
00:00:01 |
|   6 |     TABLE ACCESS FULL | EMP  |    14 |   462 |     3   (0)|
00:00:01 |
|   7 |    TABLE ACCESS FULL  | DEPT |     4 |    88 |     3   (0)|
00:00:01 |
--------------------------------------------------------------------------
----
```

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

   1 - access("M"."DEPTNO"="DM"."DEPTNO"(+))
   2 - access("E"."MGR"="M"."EMPNO"(+))
   3 - access("E"."DEPTNO"(+)="DE"."DEPTNO")

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

SQL> cl scr

SQL> COLUMN "Employee's Salary" FORMAT 9999
SQL> COLUMN EMPGRADE FORMAT 99
SQL> COLUMN "Manager's Salary" FORMAT 9999
SQL> COLUMN MGRGRADE FORMAT 99
SQL> SELECT
  2  E.Ename EmpName,
  3  E.Sal EmpSal,
  4  SE.Grade EmpGrade,
  5  M.Sal MGRSal,
  6  SM.Grade MGRGrade,
  7  Dname MGRDname
  8  FROM Emp E, Dept D, Emp M, SalGrade SE, SalGrade SM
  9  WHERE E.Deptno = D.Deptno  AND
 10  E.MGR = M.Empno AND
 11  E.Sal BETWEEN SE.LoSal AND SE.HiSal AND
 12  M.Sal BETWEEN SM.LoSal AND SM.HiSal;


EMPNAME            EMPSAL EMPGRADE     MGRSAL MGRGRADE MGRDNAME
-------------- ---------- -------- ---------- -------- --------------
SMITH                 800        1       3000        4 RESEARCH
JAMES                 950        1       2850        4 SALES
ADAMS                1100        1       3000        4 RESEARCH
WARD                 1250        2       2850        4 SALES
MARTIN               1250        2       2850        4 SALES
MILLER               1300        2       2450        4 ACCOUNTING
TURNER               1500        3       2850        4 SALES
ALLEN                1600        3       2850        4 SALES
CLARK                2450        4       5000        5 ACCOUNTING
BLAKE                2850        4       5000        5 SALES
JONES                2975        4       5000        5 RESEARCH
FORD                 3000        4       2975        4 RESEARCH
SCOTT                3000        4       2975        4 RESEARCH
```

--
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13 rows selected.

Execution Plan

Plan hash value: 3356300898

```
---------------------------------------------------------------------------
---------------------------
| Id  | Operation                     | Name             | Rows |
Bytes | Cost (%CPU)| Time     |
---------------------------------------------------------------------------
---------------------------
|   0 | SELECT STATEMENT              |                  |    1 |
 172 |    13  (16)| 00:00:01 |
|   1 |  NESTED LOOPS                 |                  |      |
     |            |          |
|   2 |   NESTED LOOPS                |                  |    1 |
 172 |    13  (16)| 00:00:01 |
|   3 |    MERGE JOIN CARTESIAN       |                  |    1 |
 146 |    12  (17)| 00:00:01 |
|   4 |     NESTED LOOPS              |                  |      |
     |            |          |
|   5 |      NESTED LOOPS            |                  |    1 |
 107 |     9  (23)| 00:00:01 |
|   6 |       MERGE JOIN             |                  |    1 |
  85 |     8  (25)| 00:00:01 |
|   7 |        SORT JOIN            |                  |    5 |
 195 |     4  (25)| 00:00:01 |
|   8 |         TABLE ACCESS FULL    | SALGRADE         |    5 |
 195 |     3   (0)| 00:00:01 |
|*  9 |         FILTER              |                  |      |
     |            |          |
|* 10 |          SORT JOIN         |                  |   14 |
 644 |     4  (25)| 00:00:01 |
|  11 |           TABLE ACCESS FULL  | EMP              |   14 |
 644 |     3   (0)| 00:00:01 |
|* 12 |        INDEX UNIQUE SCAN      | DEPT_PRIMARY_KEY |    1 |
     |     0   (0)| 00:00:01 |
|  13 |       TABLE ACCESS BY INDEX ROWID| DEPT         |    1 |
  22 |     1   (0)| 00:00:01 |
|  14 |     BUFFER SORT              |                  |    5 |
 195 |    11  (19)| 00:00:01 |
|  15 |      TABLE ACCESS FULL        | SALGRADE         |    5 |
 195 |     3   (0)| 00:00:01 |
|* 16 |    INDEX UNIQUE SCAN          | EMP_PRIMARY_KEY  |    1 |
     |     0   (0)| 00:00:01 |
---------------------------------------------------------------------------
```

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```
|* 17 |    TABLE ACCESS BY INDEX ROWID   | EMP            |     1 |
26 |     1   (0)| 00:00:01 |
------------------------------------------------------------------------
---------------------------

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

   9 - filter("E"."SAL"<="SE"."HISAL")
  10 - access("E"."SAL">="SE"."LOSAL")
       filter("E"."SAL">="SE"."LOSAL")
  12 - access("E"."DEPTNO"="D"."DEPTNO")
  16 - access("E"."MGR"="M"."EMPNO")
  17 - filter("M"."SAL">="SM"."LOSAL" AND "M"."SAL"<="SM"."HISAL")

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

SQL> cl scr

SQL> SELECT Ename, Dept.Deptno, Dname, Loc
  2  FROM Emp CROSS JOIN Dept;

ENAME          DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING               10 ACCOUNTING     NEW YORK
BLAKE              10 ACCOUNTING     NEW YORK
CLARK              10 ACCOUNTING     NEW YORK
JONES              10 ACCOUNTING     NEW YORK
MARTIN             10 ACCOUNTING     NEW YORK
ALLEN              10 ACCOUNTING     NEW YORK
TURNER             10 ACCOUNTING     NEW YORK
JAMES              10 ACCOUNTING     NEW YORK
WARD               10 ACCOUNTING     NEW YORK
FORD               10 ACCOUNTING     NEW YORK
SMITH              10 ACCOUNTING     NEW YORK
SCOTT              10 ACCOUNTING     NEW YORK
ADAMS              10 ACCOUNTING     NEW YORK
MILLER             10 ACCOUNTING     NEW YORK
KING               20 RESEARCH       DALLAS
BLAKE              20 RESEARCH       DALLAS
CLARK              20 RESEARCH       DALLAS

ENAME          DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
JONES              20 RESEARCH       DALLAS
```

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```
MARTIN                20 RESEARCH        DALLAS
ALLEN                 20 RESEARCH        DALLAS
TURNER                20 RESEARCH        DALLAS
JAMES                 20 RESEARCH        DALLAS
WARD                  20 RESEARCH        DALLAS
FORD                  20 RESEARCH        DALLAS
SMITH                 20 RESEARCH        DALLAS
SCOTT                 20 RESEARCH        DALLAS
ADAMS                 20 RESEARCH        DALLAS
MILLER                20 RESEARCH        DALLAS
KING                  30 SALES           CHICAGO
BLAKE                 30 SALES           CHICAGO
CLARK                 30 SALES           CHICAGO
JONES                 30 SALES           CHICAGO
MARTIN                30 SALES           CHICAGO
ALLEN                 30 SALES           CHICAGO

ENAME             DEPTNO DNAME           LOC
---------- ---------- -------------- -------------
TURNER                30 SALES           CHICAGO
JAMES                 30 SALES           CHICAGO
WARD                  30 SALES           CHICAGO
FORD                  30 SALES           CHICAGO
SMITH                 30 SALES           CHICAGO
SCOTT                 30 SALES           CHICAGO
ADAMS                 30 SALES           CHICAGO
MILLER                30 SALES           CHICAGO
KING                  40 OPERATIONS      BOSTON
BLAKE                 40 OPERATIONS      BOSTON
CLARK                 40 OPERATIONS      BOSTON
JONES                 40 OPERATIONS      BOSTON
MARTIN                40 OPERATIONS      BOSTON
ALLEN                 40 OPERATIONS      BOSTON
TURNER                40 OPERATIONS      BOSTON
JAMES                 40 OPERATIONS      BOSTON
WARD                  40 OPERATIONS      BOSTON

ENAME             DEPTNO DNAME           LOC
---------- ---------- -------------- -------------
FORD                  40 OPERATIONS      BOSTON
SMITH                 40 OPERATIONS      BOSTON
SCOTT                 40 OPERATIONS      BOSTON
ADAMS                 40 OPERATIONS      BOSTON
MILLER                40 OPERATIONS      BOSTON

56 rows selected.
```

```
Execution Plan
-------------------------------------------------------------
Plan hash value: 2034389985

----------------------------------------------------------------------
----
| Id  | Operation           | Name | Rows  | Bytes | Cost (%CPU)| Time
|
----------------------------------------------------------------------
----
|   0 | SELECT STATEMENT     |      |    56 |  2072 |    10   (0)|
00:00:01 |
|   1 |  MERGE JOIN CARTESIAN|      |    56 |  2072 |    10   (0)|
00:00:01 |
|   2 |   TABLE ACCESS FULL  | DEPT |     4 |   120 |     3   (0)|
00:00:01 |
|   3 |   BUFFER SORT        |      |    14 |    98 |     7   (0)|
00:00:01 |
|   4 |    TABLE ACCESS FULL | EMP  |    14 |    98 |     2   (0)|
00:00:01 |
----------------------------------------------------------------------
----

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

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Dept.Deptno, Dname, Loc
  2* FROM Emp, Dept
SQL> /

ENAME              DEPTNO DNAME          LOC
----------------- ------- -------------- -------------
KING                   10 ACCOUNTING     NEW YORK
BLAKE                  10 ACCOUNTING     NEW YORK
CLARK                  10 ACCOUNTING     NEW YORK
JONES                  10 ACCOUNTING     NEW YORK
MARTIN                 10 ACCOUNTING     NEW YORK
ALLEN                  10 ACCOUNTING     NEW YORK
TURNER                 10 ACCOUNTING     NEW YORK
JAMES                  10 ACCOUNTING     NEW YORK
WARD                   10 ACCOUNTING     NEW YORK
FORD                   10 ACCOUNTING     NEW YORK
```

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……

```
SMITH              10 ACCOUNTING     NEW YORK
SCOTT              10 ACCOUNTING     NEW YORK
ADAMS              10 ACCOUNTING     NEW YORK
MILLER             10 ACCOUNTING     NEW YORK
KING               20 RESEARCH       DALLAS
BLAKE              20 RESEARCH       DALLAS
CLARK              20 RESEARCH       DALLAS


ENAME          DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
JONES              20 RESEARCH       DALLAS
MARTIN             20 RESEARCH       DALLAS
ALLEN              20 RESEARCH       DALLAS
TURNER             20 RESEARCH       DALLAS
JAMES              20 RESEARCH       DALLAS
WARD               20 RESEARCH       DALLAS
FORD               20 RESEARCH       DALLAS
SMITH              20 RESEARCH       DALLAS
SCOTT              20 RESEARCH       DALLAS
ADAMS              20 RESEARCH       DALLAS
MILLER             20 RESEARCH       DALLAS
KING               30 SALES          CHICAGO
BLAKE              30 SALES          CHICAGO
CLARK              30 SALES          CHICAGO
JONES              30 SALES          CHICAGO
MARTIN             30 SALES          CHICAGO
ALLEN              30 SALES          CHICAGO


ENAME          DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
TURNER             30 SALES          CHICAGO
JAMES              30 SALES          CHICAGO
WARD               30 SALES          CHICAGO
FORD               30 SALES          CHICAGO
SMITH              30 SALES          CHICAGO
SCOTT              30 SALES          CHICAGO
ADAMS              30 SALES          CHICAGO
MILLER             30 SALES          CHICAGO
KING               40 OPERATIONS     BOSTON
BLAKE              40 OPERATIONS     BOSTON
CLARK              40 OPERATIONS     BOSTON
JONES              40 OPERATIONS     BOSTON
MARTIN             40 OPERATIONS     BOSTON
ALLEN              40 OPERATIONS     BOSTON
TURNER             40 OPERATIONS     BOSTON
JAMES              40 OPERATIONS     BOSTON
WARD               40 OPERATIONS     BOSTON
```

```
ENAME           DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
FORD              40 OPERATIONS     BOSTON
SMITH             40 OPERATIONS     BOSTON
SCOTT             40 OPERATIONS     BOSTON
ADAMS             40 OPERATIONS     BOSTON
MILLER            40 OPERATIONS     BOSTON

56 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 2034389985

--------------------------------------------------------------------
----
| Id  | Operation             | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------
----
|   0 | SELECT STATEMENT      |      |    56 |  2072 |    10   (0)|
00:00:01 |
|   1 |  MERGE JOIN CARTESIAN|      |    56 |  2072 |    10   (0)|
00:00:01 |
|   2 |   TABLE ACCESS FULL  | DEPT |     4 |   120 |     3   (0)|
00:00:01 |
|   3 |   BUFFER SORT        |      |    14 |    98 |     7   (0)|
00:00:01 |
|   4 |    TABLE ACCESS FULL | EMP  |    14 |    98 |     2   (0)|
00:00:01 |
--------------------------------------------------------------------
----


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

SQL> cl scr

SQL> SELECT Ename, Dept.Deptno, Dname, Loc
  2  FROM Emp CROSS JOIN Dept
  3  WHERE Emp.Deptno = Dept.Deptno;

ENAME           DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
```

--
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```
KING              10 ACCOUNTING     NEW YORK
BLAKE             30 SALES          CHICAGO
CLARK             10 ACCOUNTING     NEW YORK
JONES             20 RESEARCH       DALLAS
MARTIN            30 SALES          CHICAGO
ALLEN             30 SALES          CHICAGO
TURNER            30 SALES          CHICAGO
JAMES             30 SALES          CHICAGO
WARD              30 SALES          CHICAGO
FORD              20 RESEARCH       DALLAS
SMITH             20 RESEARCH       DALLAS
SCOTT             20 RESEARCH       DALLAS
ADAMS             20 RESEARCH       DALLAS
MILLER            10 ACCOUNTING     NEW YORK

14 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 615168685

--------------------------------------------------------------------------
--
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------------
--
|   0 | SELECT STATEMENT   |      |    14 |   700 |     7  (15)| 00:00:01
|
|*  1 |  HASH JOIN         |      |    14 |   700 |     7  (15)| 00:00:01
|
|   2 |   TABLE ACCESS FULL| DEPT |     4 |   120 |     3   (0)| 00:00:01
|
|   3 |   TABLE ACCESS FULL| EMP  |    14 |   280 |     3   (0)| 00:00:01
|
--------------------------------------------------------------------------
--

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

   1 - access("EMP"."DEPTNO"="DEPT"."DEPTNO")

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

```
SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Dept.Deptno, Dname, Loc
  2  FROM Emp, Dept
  3* WHERE Emp.Deptno = Dept.Deptno
SQL> /

ENAME          DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING               10 ACCOUNTING     NEW YORK
BLAKE              30 SALES          CHICAGO
CLARK              10 ACCOUNTING     NEW YORK
JONES              20 RESEARCH       DALLAS
MARTIN             30 SALES          CHICAGO
ALLEN              30 SALES          CHICAGO
TURNER             30 SALES          CHICAGO
JAMES              30 SALES          CHICAGO
WARD               30 SALES          CHICAGO
FORD               20 RESEARCH       DALLAS
SMITH              20 RESEARCH       DALLAS
SCOTT              20 RESEARCH       DALLAS
ADAMS              20 RESEARCH       DALLAS
MILLER             10 ACCOUNTING     NEW YORK

14 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 615168685

----------------------------------------------------------------------------
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time     |
----------------------------------------------------------------------------
|   0 | SELECT STATEMENT   |      |    14 |   700 |     7  (15)| 00:00:01 |
|*  1 |  HASH JOIN         |      |    14 |   700 |     7  (15)| 00:00:01 |
|   2 |   TABLE ACCESS FULL| DEPT |     4 |   120 |     3   (0)| 00:00:01 |
|   3 |   TABLE ACCESS FULL| EMP  |    14 |   280 |     3   (0)| 00:00:01 |
----------------------------------------------------------------------------
```

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

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

   1 - access("EMP"."DEPTNO"="DEPT"."DEPTNO")

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

SQL> cl scr

SQL> SELECT Ename, Deptno, Dname, Loc
  2  FROM Emp NATURAL JOIN Dept;

ENAME          DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING               10 ACCOUNTING     NEW YORK
BLAKE              30 SALES          CHICAGO
CLARK              10 ACCOUNTING     NEW YORK
JONES              20 RESEARCH       DALLAS
MARTIN             30 SALES          CHICAGO
ALLEN              30 SALES          CHICAGO
TURNER             30 SALES          CHICAGO
JAMES              30 SALES          CHICAGO
WARD               30 SALES          CHICAGO
FORD               20 RESEARCH       DALLAS
SMITH              20 RESEARCH       DALLAS
SCOTT              20 RESEARCH       DALLAS
ADAMS              20 RESEARCH       DALLAS
MILLER             10 ACCOUNTING     NEW YORK

14 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 615168685

------------------------------------------------------------------------
--
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time
|
------------------------------------------------------------------------
--
```

```
|   0 |  SELECT STATEMENT   |        |  14 |  700 |    7  (15)| 00:00:01
|
|*  1 |   HASH JOIN         |        |  14 |  700 |    7  (15)| 00:00:01
|
|   2 |    TABLE ACCESS FULL| DEPT   |   4 |  120 |    3   (0)| 00:00:01
|
|   3 |    TABLE ACCESS FULL| EMP    |  14 |  280 |    3   (0)| 00:00:01
|
------------------------------------------------------------------------
--

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

   1 - access("EMP"."DEPTNO"="DEPT"."DEPTNO")

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

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Emp.Deptno, Dname, Loc
  2* FROM Emp NATURAL JOIN Dept
SQL> /
SELECT Ename, Emp.Deptno, Dname, Loc
             *
ERROR at line 1:
ORA-25155: column used in NATURAL join cannot have qualifier


SQL> SELECT Ename, Deptno, Dname, Loc
  2  FROM Emp JOIN Dept
  3  USING(Deptno);

ENAME          DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING               10 ACCOUNTING     NEW YORK
BLAKE              30 SALES          CHICAGO
CLARK              10 ACCOUNTING     NEW YORK
JONES              20 RESEARCH       DALLAS
MARTIN             30 SALES          CHICAGO
ALLEN              30 SALES          CHICAGO
TURNER             30 SALES          CHICAGO
JAMES              30 SALES          CHICAGO
WARD               30 SALES          CHICAGO
```

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```
FORD              20 RESEARCH     DALLAS
SMITH             20 RESEARCH     DALLAS
SCOTT             20 RESEARCH     DALLAS
ADAMS             20 RESEARCH     DALLAS
MILLER            10 ACCOUNTING   NEW YORK

14 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 615168685


--------------------------------------------------------------------
--
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------
--
|   0 | SELECT STATEMENT   |      |    14 |   700 |     7  (15)| 00:00:01
|
|*  1 |   HASH JOIN        |      |    14 |   700 |     7  (15)| 00:00:01
|
|   2 |    TABLE ACCESS FULL| DEPT |     4 |   120 |     3   (0)| 00:00:01
|
|   3 |    TABLE ACCESS FULL| EMP  |    14 |   280 |     3   (0)| 00:00:01
|
--------------------------------------------------------------------
--


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

   1 - access("EMP"."DEPTNO"="DEPT"."DEPTNO")

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

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Dname, Loc
  2  FROM Emp INNER JOIN Dept
  3* USING(Deptno)
SQL> /
```

```
ENAME           DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING               10 ACCOUNTING     NEW YORK
BLAKE              30 SALES          CHICAGO
CLARK              10 ACCOUNTING     NEW YORK
JONES              20 RESEARCH       DALLAS
MARTIN             30 SALES          CHICAGO
ALLEN              30 SALES          CHICAGO
TURNER             30 SALES          CHICAGO
JAMES              30 SALES          CHICAGO
WARD               30 SALES          CHICAGO
FORD               20 RESEARCH       DALLAS
SMITH              20 RESEARCH       DALLAS
SCOTT              20 RESEARCH       DALLAS
ADAMS              20 RESEARCH       DALLAS
MILLER             10 ACCOUNTING     NEW YORK

14 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 615168685


---------------------------------------------------------------------------
--
| Id  | Operation           | Name | Rows  | Bytes | Cost (%CPU)| Time      |
---------------------------------------------------------------------------
--
|   0 | SELECT STATEMENT    |      |    14 |   700 |     7  (15)| 00:00:01  |
|*  1 |  HASH JOIN          |      |    14 |   700 |     7  (15)| 00:00:01  |
|   2 |   TABLE ACCESS FULL | DEPT |     4 |   120 |     3   (0)| 00:00:01  |
|   3 |   TABLE ACCESS FULL | EMP  |    14 |   280 |     3   (0)| 00:00:01  |
---------------------------------------------------------------------------
--

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

   1 - access("EMP"."DEPTNO"="DEPT"."DEPTNO")

Note
```

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

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Dept.Deptno, Dname, Loc
  2   FROM Emp INNER JOIN Dept
  3*  USING(Deptno)
SQL> /
SELECT Ename, Dept.Deptno, Dname, Loc
               *
ERROR at line 1:
ORA-25154: column part of USING clause cannot have qualifier


SQL> cl scr

SQL> SELECT Ename, Dept.Deptno, Dname, Loc
  2   FROM Emp  JOIN Dept
  3   ON Emp.Deptno = Dept.Deptno;

ENAME          DEPTNO DNAME         LOC
---------- ---------- ------------- -------------
KING               10 ACCOUNTING    NEW YORK
BLAKE              30 SALES         CHICAGO
CLARK              10 ACCOUNTING    NEW YORK
JONES              20 RESEARCH      DALLAS
MARTIN             30 SALES         CHICAGO
ALLEN              30 SALES         CHICAGO
TURNER             30 SALES         CHICAGO
JAMES              30 SALES         CHICAGO
WARD               30 SALES         CHICAGO
FORD               20 RESEARCH      DALLAS
SMITH              20 RESEARCH      DALLAS
SCOTT              20 RESEARCH      DALLAS
ADAMS              20 RESEARCH      DALLAS
MILLER             10 ACCOUNTING    NEW YORK

14 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 615168685
```

```
----------------------------------------------------------------------
--
| Id | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time
|
----------------------------------------------------------------------
--
|   0 | SELECT STATEMENT   |      |   14 |   700 |    7  (15)| 00:00:01
|
|*  1 |  HASH JOIN         |      |   14 |   700 |    7  (15)| 00:00:01
|
|   2 |   TABLE ACCESS FULL| DEPT |    4 |   120 |    3   (0)| 00:00:01
|
|   3 |   TABLE ACCESS FULL| EMP  |   14 |   280 |    3   (0)| 00:00:01
|
----------------------------------------------------------------------
--

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

   1 - access("EMP"."DEPTNO"="DEPT"."DEPTNO")

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

SQL> SELECT Ename, Dept.Deptno, Dname, Loc
  2  FROM Emp INNER JOIN Dept
  3  ON Emp.Deptno = Dept.Deptno;

ENAME          DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING           10 ACCOUNTING     NEW YORK
BLAKE          30 SALES          CHICAGO
CLARK          10 ACCOUNTING     NEW YORK
JONES          20 RESEARCH       DALLAS
MARTIN         30 SALES          CHICAGO
ALLEN          30 SALES          CHICAGO
TURNER         30 SALES          CHICAGO
JAMES          30 SALES          CHICAGO
WARD           30 SALES          CHICAGO
FORD           20 RESEARCH       DALLAS
SMITH          20 RESEARCH       DALLAS
SCOTT          20 RESEARCH       DALLAS
ADAMS          20 RESEARCH       DALLAS
MILLER         10 ACCOUNTING     NEW YORK
```

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```
14 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 615168685

---------------------------------------------------------------------------
--
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time
|
---------------------------------------------------------------------------
--
|   0 | SELECT STATEMENT   |      |    14 |   700 |     7  (15)| 00:00:01
|
|*  1 |   HASH JOIN        |      |    14 |   700 |     7  (15)| 00:00:01
|
|   2 |    TABLE ACCESS FULL| DEPT |     4 |   120 |     3   (0)| 00:00:01
|
|   3 |    TABLE ACCESS FULL| EMP  |    14 |   280 |     3   (0)| 00:00:01
|
---------------------------------------------------------------------------
--

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

   1 - access("EMP"."DEPTNO"="DEPT"."DEPTNO")

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

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Dept.Deptno, Dname, Loc
  2  FROM Emp INNER JOIN Dept
  3* WHERE Emp.Deptno = Dept.Deptno
SQL> /
WHERE Emp.Deptno = Dept.Deptno
*
ERROR at line 3:
ORA-00905: missing keyword


SQL> cl scr
```

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```
SQL> SELECT
  2  E.Ename Employee,
  3  M.Ename Manager
  4  FROM Emp E INNER JOIN Emp M
  5  ON(E.MGR = M.Empno);

EMPLOYEE    MANAGER
---------- ---------------
JONES       KING
CLARK       KING
BLAKE       KING
WARD        BLAKE
JAMES       BLAKE
TURNER      BLAKE
ALLEN       BLAKE
MARTIN      BLAKE
MILLER      CLARK
SCOTT       JONES
FORD        JONES
SMITH       FORD
ADAMS       SCOTT

13 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 3638257876

---------------------------------------------------------------------------
--
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time
|
---------------------------------------------------------------------------
--
|   0 | SELECT STATEMENT   |      |    13 |   520 |     7  (15)| 00:00:01
|
|*  1 |  HASH JOIN         |      |    13 |   520 |     7  (15)| 00:00:01
|
|   2 |   TABLE ACCESS FULL| EMP  |    14 |   280 |     3   (0)| 00:00:01
|
|   3 |   TABLE ACCESS FULL| EMP  |    14 |   280 |     3   (0)| 00:00:01
|
---------------------------------------------------------------------------
--
```

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

   1 - access("E"."MGR"="M"."EMPNO")

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

SQL> cl scr

SQL> SELECT Ename, Sal, Grade, Dept.Deptno, Dname
  2  FROM Emp JOIN Dept
  3  ON Emp.Deptno = Dept.Deptno
  4  JOIN SalGrade
  5  ON Emp.Sal BETWEEN LoSal AND HiSal;

ENAME             SAL      GRADE      DEPTNO DNAME
---------- ---------- ---------- ---------- --------------
SMITH             800          1          20 RESEARCH
JAMES             950          1          30 SALES
ADAMS            1100          1          20 RESEARCH
WARD             1250          2          30 SALES
MARTIN           1250          2          30 SALES
MILLER           1300          2          10 ACCOUNTING
TURNER           1500          3          30 SALES
ALLEN            1600          3          30 SALES
CLARK            2450          4          10 ACCOUNTING
BLAKE            2850          4          30 SALES
JONES            2975          4          20 RESEARCH
FORD             3000          4          20 RESEARCH
SCOTT            3000          4          20 RESEARCH
KING             5000          5          10 ACCOUNTING

14 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 4138379338

-----------------------------------------------------------------------
-----------------------
| Id | Operation               | Name         | Rows  | Bytes |
Cost (%CPU)| Time     |
-----------------------------------------------------------------------
-----------------------
```

```
|   0 | SELECT STATEMENT            |                 |   1 |   94 |
 9  (23)| 00:00:01 |
|   1 |  NESTED LOOPS              |                 |     |      |
|        |
|   2 |   NESTED LOOPS            |                 |   1 |   94 |
 9  (23)| 00:00:01 |
|   3 |    MERGE JOIN             |                 |   1 |   72 |
 8  (25)| 00:00:01 |
|   4 |     SORT JOIN             |                 |   5 |  195 |
 4  (25)| 00:00:01 |
|   5 |      TABLE ACCESS FULL    | SALGRADE        |   5 |  195 |
 3   (0)| 00:00:01 |
|*  6 |      FILTER               |                 |     |      |
|        |
|*  7 |       SORT JOIN          |                 |  14 |  462 |
 4  (25)| 00:00:01 |
|   8 |        TABLE ACCESS FULL  | EMP             |  14 |  462 |
 3   (0)| 00:00:01 |
|*  9 |     INDEX UNIQUE SCAN     | DEPT_PRIMARY_KEY |   1 |      |
 0   (0)| 00:00:01 |
|  10 |    TABLE ACCESS BY INDEX ROWID| DEPT        |   1 |   22 |
 1   (0)| 00:00:01 |
-------------------------------------------------------------------------
-----------------------
```

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

   6 - filter("EMP"."SAL"<="HISAL")
   7 - access("EMP"."SAL">="LOSAL")
       filter("EMP"."SAL">="LOSAL")
   9 - access("EMP"."DEPTNO"="DEPT"."DEPTNO")

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

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Sal, Grade, Deptno, Dname
  2  FROM Emp NATURAL JOIN Dept
  3  JOIN SalGrade
  4* ON Emp.Sal BETWEEN LoSal AND HiSal
SQL> /

ENAME            SAL    GRADE    DEPTNO DNAME
```

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………

```
---------- ---------- ---------- ---------- --------------
SMITH             800          1         20 RESEARCH
JAMES             950          1         30 SALES
ADAMS            1100          1         20 RESEARCH
WARD             1250          2         30 SALES
MARTIN           1250          2         30 SALES
MILLER           1300          2         10 ACCOUNTING
TURNER           1500          3         30 SALES
ALLEN            1600          3         30 SALES
CLARK            2450          4         10 ACCOUNTING
BLAKE            2850          4         30 SALES
JONES            2975          4         20 RESEARCH
FORD             3000          4         20 RESEARCH
SCOTT            3000          4         20 RESEARCH
KING             5000          5         10 ACCOUNTING

14 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 4138379338

--------------------------------------------------------------------------
------------------------
| Id  | Operation               | Name      | Rows  | Bytes |
Cost (%CPU)| Time     |
--------------------------------------------------------------------------
------------------------
|   0 | SELECT STATEMENT        |           |     1 |    94 |
9  (23)| 00:00:01 |
|   1 |  NESTED LOOPS           |           |       |       |
|        |
|   2 |   NESTED LOOPS          |           |     1 |    94 |
9  (23)| 00:00:01 |
|   3 |    MERGE JOIN           |           |     1 |    72 |
8  (25)| 00:00:01 |
|   4 |     SORT JOIN           |           |     5 |   195 |
4  (25)| 00:00:01 |
|   5 |      TABLE ACCESS FULL  | SALGRADE  |     5 |   195 |
3   (0)| 00:00:01 |
|*  6 |     FILTER              |           |       |       |
|        |
|*  7 |      SORT JOIN          |           |    14 |   462 |
4  (25)| 00:00:01 |
|   8 |       TABLE ACCESS FULL | EMP       |    14 |   462 |
3   (0)| 00:00:01 |
--------------------------------------------------------------------------
```

```
|*  9 |     INDEX UNIQUE SCAN        | DEPT_PRIMARY_KEY |     1 |       |
0   (0)| 00:00:01 |
| 10 |    TABLE ACCESS BY INDEX ROWID| DEPT             |     1 |    22 |
1   (0)| 00:00:01 |
--------------------------------------------------------------------------
-----------------------

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

   6 - filter("EMP"."SAL"<="HISAL")
   7 - access("EMP"."SAL">="LOSAL")
       filter("EMP"."SAL">="LOSAL")
   9 - access("EMP"."DEPTNO"="DEPT"."DEPTNO")

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

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Sal, Grade, Deptno, Dname
  2  FROM Emp INNER JOIN Dept
  3  USING(Deptno)
  4  JOIN SalGrade
  5* ON Emp.Sal BETWEEN LoSal AND HiSal
SQL> /

ENAME             SAL      GRADE     DEPTNO DNAME
---------- ---------- ---------- ---------- --------------
SMITH             800          1         20 RESEARCH
JAMES             950          1         30 SALES
ADAMS            1100          1         20 RESEARCH
WARD             1250          2         30 SALES
MARTIN           1250          2         30 SALES
MILLER           1300          2         10 ACCOUNTING
TURNER           1500          3         30 SALES
ALLEN            1600          3         30 SALES
CLARK            2450          4         10 ACCOUNTING
BLAKE            2850          4         30 SALES
JONES            2975          4         20 RESEARCH
FORD             3000          4         20 RESEARCH
SCOTT            3000          4         20 RESEARCH
KING             5000          5         10 ACCOUNTING

14 rows selected.
```

```
Execution Plan
------------------------------------------------------------
Plan hash value: 4138379338

-----------------------------------------------------------------------
------------------------
| Id  | Operation                    | Name             | Rows  | Bytes |
Cost (%CPU)| Time     |
-----------------------------------------------------------------------
------------------------
|   0 | SELECT STATEMENT             |                  |     1 |    94 |
9  (23)| 00:00:01 |
|   1 |  NESTED LOOPS                |                  |       |       |
|        |
|   2 |   NESTED LOOPS               |                  |     1 |    94 |
9  (23)| 00:00:01 |
|   3 |    MERGE JOIN                |                  |     1 |    72 |
8  (25)| 00:00:01 |
|   4 |     SORT JOIN                |                  |     5 |   195 |
4  (25)| 00:00:01 |
|   5 |      TABLE ACCESS FULL       | SALGRADE         |     5 |   195 |
3   (0)| 00:00:01 |
|*  6 |     FILTER                   |                  |       |       |
|        |
|*  7 |      SORT JOIN               |                  |    14 |   462 |
4  (25)| 00:00:01 |
|   8 |       TABLE ACCESS FULL      | EMP              |    14 |   462 |
3   (0)| 00:00:01 |
|*  9 |    INDEX UNIQUE SCAN         | DEPT_PRIMARY_KEY |     1 |       |
0   (0)| 00:00:01 |
|  10 |   TABLE ACCESS BY INDEX ROWID| DEPT             |     1 |    22 |
1   (0)| 00:00:01 |
-----------------------------------------------------------------------
------------------------

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

   6 - filter("EMP"."SAL"<="HISAL")
   7 - access("EMP"."SAL">="LOSAL")
       filter("EMP"."SAL">="LOSAL")
   9 - access("EMP"."DEPTNO"="DEPT"."DEPTNO")

Note
-----
```

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

SQL> cl scr

SQL> SELECT E.Ename, M.Ename, E.Sal, Grade, D.Deptno, Dname
  2  FROM
  3  Emp E INNER JOIN Dept D
  4  ON E.Deptno = D.Deptno
  5  INNER JOIN Emp M
  6  ON E.Empno = M.MGR
  7  INNER JOIN SalGrade S
  8  ON E.Sal BETWEEN LoSal AND HiSal;

ENAME      ENAME             SAL    GRADE     DEPTNO DNAME
---------- ---------- ---------- ---------- ---------- --------------
KING       BLAKE            5000          5         10 ACCOUNTING
KING       CLARK            5000          5         10 ACCOUNTING
KING       JONES            5000          5         10 ACCOUNTING
BLAKE      MARTIN           2850          4         30 SALES
BLAKE      ALLEN            2850          4         30 SALES
BLAKE      TURNER           2850          4         30 SALES
BLAKE      JAMES            2850          4         30 SALES
BLAKE      WARD             2850          4         30 SALES
JONES      FORD             2975          4         20 RESEARCH
FORD       SMITH            3000          4         20 RESEARCH
JONES      SCOTT            2975          4         20 RESEARCH
SCOTT      ADAMS            3000          4         20 RESEARCH
CLARK      MILLER           2450          4         10 ACCOUNTING

13 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 2253712071

--------------------------------------------------------------------
------------------------
| Id | Operation                | Name        | Rows  | Bytes
| Cost (%CPU)| Time      |
--------------------------------------------------------------------
------------------------
|  0 | SELECT STATEMENT          |             |    1 |   127
|   13  (24)| 00:00:01 |
|* 1 |  HASH JOIN                |             |    1 |   127
|   13  (24)| 00:00:01 |

```

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```
|   2 |    NESTED LOOPS                 |                 |      |
|     |         |          |
|   3 |     NESTED LOOPS                |                 |   1 |   107
|   9 (23)| 00:00:01 |
|   4 |      MERGE JOIN                 |                 |   1 |    85
|   8 (25)| 00:00:01 |
|   5 |       SORT JOIN                 |                 |   5 |   195
|   4 (25)| 00:00:01 |
|   6 |        TABLE ACCESS FULL         | SALGRADE        |   5 |   195
|   3  (0)| 00:00:01 |
|*  7 |        FILTER                   |                 |      |
|     |         |          |
|*  8 |         SORT JOIN               |                 |  14 |   644
|   4 (25)| 00:00:01 |
|   9 |          TABLE ACCESS FULL       | EMP             |  14 |   644
|   3  (0)| 00:00:01 |
|* 10 |      INDEX UNIQUE SCAN           | DEPT_PRIMARY_KEY |   1 |
|   0  (0)| 00:00:01 |
|  11 |     TABLE ACCESS BY INDEX ROWID| DEPT            |   1 |    22
|   1  (0)| 00:00:01 |
|  12 |   TABLE ACCESS FULL             | EMP             |  14 |   280
|   3  (0)| 00:00:01 |
---------------------------------------------------------------------------
-------------------------

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

   1 - access("E"."EMPNO"="M"."MGR")
   7 - filter("E"."SAL"<="HISAL")
   8 - access("E"."SAL">="LOSAL")
       filter("E"."SAL">="LOSAL")
  10 - access("E"."DEPTNO"="D"."DEPTNO")

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

SQL> cl scr

SQL> SELECT Ename, Dept.Deptno, Dname, Loc
  2  FROM Emp RIGHT JOIN Dept
  3  ON Emp.Deptno = Dept.Deptno;

ENAME          DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING               10 ACCOUNTING     NEW YORK
```

```
BLAKE                  30 SALES          CHICAGO
CLARK                  10 ACCOUNTING     NEW YORK
JONES                  20 RESEARCH       DALLAS
MARTIN                 30 SALES          CHICAGO
ALLEN                  30 SALES          CHICAGO
TURNER                 30 SALES          CHICAGO
JAMES                  30 SALES          CHICAGO
WARD                   30 SALES          CHICAGO
FORD                   20 RESEARCH       DALLAS
SMITH                  20 RESEARCH       DALLAS
SCOTT                  20 RESEARCH       DALLAS
ADAMS                  20 RESEARCH       DALLAS
MILLER                 10 ACCOUNTING     NEW YORK
                       40 OPERATIONS     BOSTON


15 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 3713469723


--------------------------------------------------------------------
--
| Id  | Operation            | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------
--
|   0 | SELECT STATEMENT     |      |    14 |   700 |     7  (15)| 00:00:01
|
|*  1 |   HASH JOIN OUTER    |      |    14 |   700 |     7  (15)| 00:00:01
|
|   2 |    TABLE ACCESS FULL| DEPT |     4 |   120 |     3   (0)| 00:00:01
|
|   3 |    TABLE ACCESS FULL| EMP  |    14 |   280 |     3   (0)| 00:00:01
|
--------------------------------------------------------------------
--


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

   1 - access("EMP"."DEPTNO"(+)="DEPT"."DEPTNO")


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

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```
SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Dept.Deptno, Dname, Loc
  2  FROM Emp RIGHT OUTER  JOIN Dept
  3* ON Emp.Deptno = Dept.Deptno
SQL> /

ENAME          DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING               10 ACCOUNTING     NEW YORK
BLAKE              30 SALES          CHICAGO
CLARK              10 ACCOUNTING     NEW YORK
JONES              20 RESEARCH       DALLAS
MARTIN             30 SALES          CHICAGO
ALLEN              30 SALES          CHICAGO
TURNER             30 SALES          CHICAGO
JAMES              30 SALES          CHICAGO
WARD               30 SALES          CHICAGO
FORD               20 RESEARCH       DALLAS
SMITH              20 RESEARCH       DALLAS
SCOTT              20 RESEARCH       DALLAS
ADAMS              20 RESEARCH       DALLAS
MILLER             10 ACCOUNTING     NEW YORK
                   40 OPERATIONS     BOSTON

15 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 3713469723


--------------------------------------------------------------------------
--
| Id  | Operation           | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------------
--
|   0 | SELECT STATEMENT    |      |    14 |   700 |     7  (15)| 00:00:01
|
|*  1 |  HASH JOIN OUTER    |      |    14 |   700 |     7  (15)| 00:00:01
|
|   2 |   TABLE ACCESS FULL| DEPT |     4 |   120 |     3   (0)| 00:00:01
|
```

```
|   3 |    TABLE ACCESS FULL| EMP  |    14 |   280 |     3   (0)| 00:00:01
|
------------------------------------------------------------------------
--

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

   1 - access("EMP"."DEPTNO"(+)="DEPT"."DEPTNO")

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

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Dept.Deptno, Dname, Loc
  2   FROM Dept RIGHT OUTER JOIN Emp
  3*  ON Emp.Deptno = Dept.Deptno
SQL> /

ENAME          DEPTNO DNAME         LOC
---------- ---------- ------------- -------------
MILLER             10 ACCOUNTING    NEW YORK
CLARK              10 ACCOUNTING    NEW YORK
KING               10 ACCOUNTING    NEW YORK
ADAMS              20 RESEARCH      DALLAS
SCOTT              20 RESEARCH      DALLAS
SMITH              20 RESEARCH      DALLAS
FORD               20 RESEARCH      DALLAS
JONES              20 RESEARCH      DALLAS
WARD               30 SALES         CHICAGO
JAMES              30 SALES         CHICAGO
TURNER             30 SALES         CHICAGO
ALLEN              30 SALES         CHICAGO
MARTIN             30 SALES         CHICAGO
BLAKE              30 SALES         CHICAGO

14 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 3387915970
```

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```
----------------------------------------------------------------------
--
| Id  | Operation            | Name | Rows  | Bytes | Cost (%CPU)| Time
|
----------------------------------------------------------------------
--
|   0 | SELECT STATEMENT     |      |    14 |   700 |     7  (15)| 00:00:01
|
|*  1 |   HASH JOIN OUTER    |      |    14 |   700 |     7  (15)| 00:00:01
|
|   2 |    TABLE ACCESS FULL| EMP  |    14 |   280 |     3   (0)| 00:00:01
|
|   3 |    TABLE ACCESS FULL| DEPT |     4 |   120 |     3   (0)| 00:00:01
|
----------------------------------------------------------------------
--

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

   1 - access("EMP"."DEPTNO"="DEPT"."DEPTNO"(+))

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

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Dept.Deptno, Dname, Loc
  2   FROM Dept LEFT OUTER JOIN Emp
  3*  ON Emp.Deptno = Dept.Deptno
SQL> /

ENAME           DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING            10 ACCOUNTING     NEW YORK
BLAKE           30 SALES          CHICAGO
CLARK           10 ACCOUNTING     NEW YORK
JONES           20 RESEARCH       DALLAS
MARTIN          30 SALES          CHICAGO
ALLEN           30 SALES          CHICAGO
TURNER          30 SALES          CHICAGO
JAMES           30 SALES          CHICAGO
WARD            30 SALES          CHICAGO
FORD            20 RESEARCH       DALLAS
SMITH           20 RESEARCH       DALLAS
```

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```
SCOTT               20 RESEARCH       DALLAS
ADAMS               20 RESEARCH       DALLAS
MILLER              10 ACCOUNTING     NEW YORK
                    40 OPERATIONS     BOSTON

15 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 3713469723

----------------------------------------------------------------------
--
| Id  | Operation            | Name | Rows  | Bytes | Cost (%CPU)| Time
|
----------------------------------------------------------------------
--
|   0 | SELECT STATEMENT     |      |    14 |   700 |     7  (15)| 00:00:01
|
|*  1 |   HASH JOIN OUTER    |      |    14 |   700 |     7  (15)| 00:00:01
|
|   2 |    TABLE ACCESS FULL | DEPT |     4 |   120 |     3   (0)| 00:00:01
|
|   3 |    TABLE ACCESS FULL | EMP  |    14 |   280 |     3   (0)| 00:00:01
|
----------------------------------------------------------------------
--

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

   1 - access("EMP"."DEPTNO"(+)="DEPT"."DEPTNO")

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

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Dept.Deptno, Dname, Loc
  2  FROM Dept FULL OUTER JOIN Emp
  3* ON Emp.Deptno = Dept.Deptno
SQL> /

ENAME           DEPTNO DNAME          LOC
```

```
---------- ---------- -------------- -------------
KING                10 ACCOUNTING     NEW YORK
BLAKE               30 SALES          CHICAGO
CLARK               10 ACCOUNTING     NEW YORK
JONES               20 RESEARCH       DALLAS
MARTIN              30 SALES          CHICAGO
ALLEN               30 SALES          CHICAGO
TURNER              30 SALES          CHICAGO
JAMES               30 SALES          CHICAGO
WARD                30 SALES          CHICAGO
FORD                20 RESEARCH       DALLAS
SMITH               20 RESEARCH       DALLAS
SCOTT               20 RESEARCH       DALLAS
ADAMS               20 RESEARCH       DALLAS
MILLER              10 ACCOUNTING     NEW YORK
                    40 OPERATIONS     BOSTON

15 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 51889263

-----------------------------------------------------------------------
---------
| Id  | Operation             | Name     | Rows  | Bytes | Cost (%CPU)|
Time     |
-----------------------------------------------------------------------
---------
|   0 | SELECT STATEMENT      |          |    15 |   555 |     7  (15)|
00:00:01 |
|   1 |  VIEW                 | VW_FOJ_0 |    15 |   555 |     7  (15)|
00:00:01 |
|*  2 |   HASH JOIN FULL OUTER|          |    15 |   750 |     7  (15)|
00:00:01 |
|   3 |    TABLE ACCESS FULL  | DEPT     |     4 |   120 |     3   (0)|
00:00:01 |
|   4 |    TABLE ACCESS FULL  | EMP      |    14 |   280 |     3   (0)|
00:00:01 |
-----------------------------------------------------------------------
---------

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

   2 - access("EMP"."DEPTNO"="DEPT"."DEPTNO")
```

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Data Modeling, Linux/Unix, Big Data
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http://yellankisathish.com/

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

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Dept.Deptno, Dname, Loc
  2   FROM Emp FULL OUTER JOIN Dept
  3*  ON Emp.Deptno = Dept.Deptno
SQL> /

ENAME          DEPTNO DNAME          LOC
---------- ---------- -------------- ------------
KING               10 ACCOUNTING     NEW YORK
BLAKE              30 SALES          CHICAGO
CLARK              10 ACCOUNTING     NEW YORK
JONES              20 RESEARCH       DALLAS
MARTIN             30 SALES          CHICAGO
ALLEN              30 SALES          CHICAGO
TURNER             30 SALES          CHICAGO
JAMES              30 SALES          CHICAGO
WARD               30 SALES          CHICAGO
FORD               20 RESEARCH       DALLAS
SMITH              20 RESEARCH       DALLAS
SCOTT              20 RESEARCH       DALLAS
ADAMS              20 RESEARCH       DALLAS
MILLER             10 ACCOUNTING     NEW YORK
                   40 OPERATIONS     BOSTON

15 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 51889263


------------------------------------------------------------------------
---------
| Id  | Operation           | Name      | Rows  | Bytes | Cost (%CPU)|
Time    |
------------------------------------------------------------------------
---------
|   0 | SELECT STATEMENT    |           |    15 |   555 |     7  (15)|
00:00:01 |
```

```
|   1 |  VIEW                 | VW_FOJ_0 |    15 |   555 |     7  (15)|
00:00:01 |
|*  2 |   HASH JOIN FULL OUTER|          |    15 |   750 |     7  (15)|
00:00:01 |
|   3 |    TABLE ACCESS FULL  | DEPT     |     4 |   120 |     3   (0)|
00:00:01 |
|   4 |    TABLE ACCESS FULL  | EMP      |    14 |   280 |     3   (0)|
00:00:01 |
-------------------------------------------------------------------------
---------

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

   2 - access("EMP"."DEPTNO"="DEPT"."DEPTNO")

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

SQL> SPOOL OFF
```

Announcing A New Batch For

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By

S a t h i s h   Y e l l a n k i

Date : 2nd May, 2018	Time: 4 PM To 5 PM

For Enquiries And Registrations Contact

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