

Sathish Yellanki Institute of Software Solutions	
Announcing A New Batch	
OF	
Oracle Performance And Tuning	
With In-Depth Coverage on SQL Tuning And PL/SQL Tuning With Issue Based Approach, Including AWR, Statspack, Enterprise Manager etc...	
Date : 21st May 2018	Time : 11.00 AM
If You Are Looking For Good Positions And Scaling in The Career of Databases With Oracle, This Course is Ideal For You, All The Aspirants Aiming With Experience in Their Resume Can Avail This Course	
Contact Details Flat No : 201, 2 nd Floor, Abhilash Tower SR Nagar Main Road, Near SR Nagar Community Hall. Land Mark : Just Bake Bakery, Hyderabad. Phone : 040-23710047, 9985798869	

SkyEss Techno Solutions Pvt. Ltd.
Flat No. 201, II Floor, Abhilash Towers, BK Guda, Hyderabad – 500 038
Ph No. 040 23710047, Mobile: 9985798869, **WhatsApp:9985798869**
Contact For Courses And Training in
Oracle Developer Suite 10g(D2K), Oracle11g(Weekend), Live Projects in SQL and PL/SQL,
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<http://yellankisathish.com/>

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

```
SQL> SELECT DISTINCT D.Deptno, D.Dname, D.Loc
2  FROM Emp E, Dept D
3  WHERE E.Deptno = D.Deptno;
```

DEPTNO	DNAME	LOC
20	RESEARCH	DALLAS
10	ACCOUNTING	NEW YORK
30	SALES	CHICAGO

```
SQL> SET AUTOTRACE ON EXPLAIN
SQL> SELECT DISTINCT D.Deptno, D.Dname, D.Loc
2  FROM Emp E, Dept D
3  WHERE E.Deptno = D.Deptno;
```

DEPTNO	DNAME	LOC
20	RESEARCH	DALLAS
10	ACCOUNTING	NEW YORK
30	SALES	CHICAGO

Execution Plan

Plan hash value: 2962452962

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	602	8 (25)	00:00:01
1	HASH UNIQUE		14	602	8 (25)	00:00:01
* 2	HASH JOIN		14	602	7 (15)	00:00:01
3	TABLE ACCESS FULL	DEPT	4	120	3 (0)	00:00:01
4	TABLE ACCESS FULL	EMP	14	182	3 (0)	00:00:01

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Predicate Information (identified by operation id):

2 - access("E"."DEPTNO"="D"."DEPTNO")

Note

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

SQL> ED

Wrote file afiedt.buf

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

DEPTNO	DNAME	LOC
20	RESEARCH	DALLAS
10	ACCOUNTING	NEW YORK
30	SALES	CHICAGO

Execution Plan

Plan hash value: 2006461124

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	602	8 (25)	00:00:01
1	HASH GROUP BY		14	602	8 (25)	00:00:01
* 2	HASH JOIN		14	602	7 (15)	00:00:01
3	TABLE ACCESS FULL	DEPT	4	120	3 (0)	00:00:01
4	TABLE ACCESS FULL	EMP	14	182	3 (0)	00:00:01

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Spool File For Oracle Students Trained by Mr.Sathish Yellanki

Predicate Information (identified by operation id):

2 - access("E"."DEPTNO"="D"."DEPTNO")

Note

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

SQL> ED

Wrote file afiedt.buf

```
1  SELECT DISTINCT D.Deptno, D.Dname, D.Loc
2  FROM Dept D
3  WHERE D.Deptno IN
4  (
5    SELECT Deptno
6    FROM Dept
7* )
```

SQL> ED

Wrote file afiedt.buf

```
1  SELECT DISTINCT D.Deptno, D.Dname, D.Loc
2  FROM Dept D
3  WHERE D.Deptno IN
4  (
5    SELECT Deptno
6    FROM Emp
7* )
```

SQL> /

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
30	SALES	CHICAGO
20	RESEARCH	DALLAS

Execution Plan

Plan hash value: 1754319153

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Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		3	129	7 (15)	00:00:01
* 1	HASH JOIN SEMI		3	129	7 (15)	00:00:01
2	TABLE ACCESS FULL	DEPT	4	120	3 (0)	00:00:01
3	TABLE ACCESS FULL	EMP	14	182	3 (0)	00:00:01

Predicate Information (identified by operation id):

1 - access("D"."DEPTNO"="DEPTNO")

Note

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

SQL> ED

Wrote file afiedt.buf

```

1  SELECT DISTINCT D.Deptno, D.Dname, D.Loc
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	LOC
10	ACCOUNTING	NEW YORK
30	SALES	CHICAGO
20	RESEARCH	DALLAS

Execution Plan

Plan hash value: 1754319153

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```
--
| Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time
|
--
| 0 | SELECT STATEMENT | | 3 | 129 | 7 (15) | 00:00:01
|
| * 1 | HASH JOIN SEMI | | 3 | 129 | 7 (15) | 00:00:01
|
| 2 | TABLE ACCESS FULL | DEPT | 4 | 120 | 3 (0) | 00:00:01
|
| 3 | TABLE ACCESS FULL | EMP | 14 | 182 | 3 (0) | 00:00:01
|
--
```

Predicate Information (identified by operation id):

```
1 - access("D"."DEPTNO"="DEPTNO")
```

Note

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

SQL> ED

Wrote file afiedt.buf

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

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
30	SALES	CHICAGO
20	RESEARCH	DALLAS

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Execution Plan

Plan hash value: 1754319153

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

0	SELECT STATEMENT		3	129	7 (15)	00:00:01	
*	1 HASH JOIN SEMI		3	129	7 (15)	00:00:01	
	2	TABLE ACCESS FULL DEPT	4	120	3 (0)	00:00:01	
	3	TABLE ACCESS FULL EMP	14	182	3 (0)	00:00:01	

--							

Predicate Information (identified by operation id):

1 - access("E"."DEPTNO"="D"."DEPTNO")

Note

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

SQL> ED

Wrote file afiedt.buf

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

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
30	SALES	CHICAGO

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20 RESEARCH

DALLAS

Execution Plan

Plan hash value: 1754319153

```
--
| Id | Operation | Name | Rows | Bytes | Cost (%CPU)| Time |
|----|-----|-----|-----|-----|-----|-----|
| 0 | SELECT STATEMENT | | 3 | 129 | 7 (15) | 00:00:01 |
|* 1 | HASH JOIN SEMI | | 3 | 129 | 7 (15) | 00:00:01 |
| 2 | TABLE ACCESS FULL | DEPT | 4 | 120 | 3 (0) | 00:00:01 |
| 3 | TABLE ACCESS FULL | EMP | 14 | 182 | 3 (0) | 00:00:01 |
--
```

Predicate Information (identified by operation id):

1 - access("E"."DEPTNO"="D"."DEPTNO")

Note

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

SQL> ED

Wrote file afiedt.buf

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

SQL> /

DEPTNO DNAME

LOC

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```
-----
      10 ACCOUNTING      NEW YORK
      30 SALES           CHICAGO
      20 RESEARCH        DALLAS
```

Execution Plan

Plan hash value: 1754319153

```
-----
--
| Id  | Operation                | Name | Rows  | Bytes | Cost (%CPU)| Time |
|-----|-----|-----|-----|-----|-----|-----|
--
|   0  | SELECT STATEMENT          |      |    3  |   129 |    7  (15) | 00:00:01 |
|*   1  |  HASH JOIN SEMI           |      |    3  |   129 |    7  (15) | 00:00:01 |
|   2  |    TABLE ACCESS FULL    | DEPT  |    4  |   120 |    3   (0) | 00:00:01 |
|   3  |      TABLE ACCESS FULL  | EMP   |   14  |   182 |    3   (0) | 00:00:01 |
|-----|-----|-----|-----|-----|-----|
--
```

Predicate Information (identified by operation id):

```
-----
      1 - access("E"."DEPTNO"="D"."DEPTNO")
```

Note

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

SQL> ED

Wrote file afiedt.buf

```

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

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SQL> /

DEPTNO	DNAME	LOC
40	OPERATIONS	BOSTON

Execution Plan

Plan hash value: 474461924

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		4	172	7 (15)	00:00:01
* 1	HASH JOIN ANTI		4	172	7 (15)	00:00:01
2	TABLE ACCESS FULL	DEPT	4	120	3 (0)	00:00:01
3	TABLE ACCESS FULL	EMP	14	182	3 (0)	00:00:01

Predicate Information (identified by operation id):

1 - access("E"."DEPTNO"="D"."DEPTNO")

Note

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

SQL> cl scr

```
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 );
```

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ENAME

BLAKE
CLARK
JONES
MARTIN
ALLEN
TURNER
JAMES
WARD
FORD
SMITH
SCOTT
ADAMS
MILLER

13 rows selected.

Execution Plan

Plan hash value: 3956160932

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

-
| 0 | SELECT STATEMENT | | 13 | 260 | 3 (0) | 00:00:01
|
|* 1 | TABLE ACCESS FULL | EMP | 13 | 260 | 3 (0) | 00:00:01
|

-

Predicate Information (identified by operation id):

1 - filter("E"."MGR" IS NOT NULL)

Note

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

SQL> SELECT Ename FROM Emp WHERE MGR IS NOT NULL;

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ENAME

BLAKE
CLARK
JONES
MARTIN
ALLEN
TURNER
JAMES
WARD
FORD
SMITH
SCOTT
ADAMS
MILLER

13 rows selected.

Execution Plan

Plan hash value: 3956160932

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

-
| 0 | SELECT STATEMENT | | 13 | 260 | 3 (0) | 00:00:01
|
|* 1 | TABLE ACCESS FULL | EMP | 13 | 260 | 3 (0) | 00:00:01
|

-

Predicate Information (identified by operation id):

1 - filter("MGR" IS NOT NULL)

Note

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

SQL> ED

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Spool File For Oracle Students Trained by Mr.Sathish Yellanki

Wrote file afiedt.buf

```
1  SELECT Ename
2  FROM Emp
3  WHERE MGR IN
4    (
5    SELECT Empno
6    FROM Emp
7*  )
SQL> /
```

ENAME

BLAKE
CLARK
JONES
MARTIN
ALLEN
TURNER
JAMES
WARD
FORD
SMITH
SCOTT
ADAMS
MILLER

13 rows selected.

Execution Plan

Plan hash value: 3956160932

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

0	SELECT STATEMENT		13	260	3 (0)	00:00:01	
*	1	TABLE ACCESS FULL	EMP	13	260	3 (0)	00:00:01

-							

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Predicate Information (identified by operation id):

1 - filter("MGR" IS NOT NULL)

Note

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

SQL> cl scr

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

Execution Plan

Plan hash value: 3956160932

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		1	20	3 (0)	00:00:01
* 1	TABLE ACCESS FULL	EMP	1	20	3 (0)	00:00:01

Predicate Information (identified by operation id):

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```
1 - filter("E"."MGR" IS NULL)
```

Note

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

SQL> ED

Wrote file afiedt.buf

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

ENAME

```
-----
KING
BLAKE
JONES
FORD
SCOTT
CLARK
```

6 rows selected.

Execution Plan

Plan hash value: 977554918

```
-----
--
| Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time |
|-----|-----|-----|-----|-----|-----|-----|
--
| 0 | SELECT STATEMENT | | 6 | 198 | 7 (15) | 00:00:01 |
| * 1 | HASH JOIN SEMI | | 6 | 198 | 7 (15) | 00:00:01 |
|
```

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```
.....
|  2 |  TABLE ACCESS FULL| EMP  |  14 |  280 |  3  (0) | 00:00:01
|
|  3 |  TABLE ACCESS FULL| EMP  |  14 |  182 |  3  (0) | 00:00:01
|
-----
--
```

Predicate Information (identified by operation id):

1 - access("E1"."MGR"="E"."EMPNO")

Note

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

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.

Execution Plan

Plan hash value: 3353202012

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Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	462	7 (15)	00:00:01
* 1	HASH JOIN ANTI		14	462	7 (15)	00:00:01
2	TABLE ACCESS FULL	EMP	14	280	3 (0)	00:00:01
3	TABLE ACCESS FULL	EMP	14	182	3 (0)	00:00:01

Predicate Information (identified by operation id):

1 - access("E1"."MGR"="E"."EMPNO")

Note

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

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

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Execution Plan

Plan hash value: 977554918

```
--
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time     |
|-----|-----|-----|-----|-----|-----|-----|
--
|   0  | SELECT STATEMENT    |      |     4 |   184 |    7  (15) | 00:00:01 |
|*   1  |  HASH JOIN SEMI     |      |     4 |   184 |    7  (15) | 00:00:01 |
|     2  |    TABLE ACCESS FULL| EMP  |    14 |   462 |    3   (0) | 00:00:01 |
|     3  |    TABLE ACCESS FULL| EMP  |    14 |   182 |    3   (0) | 00:00:01 |
--
```

Predicate Information (identified by operation id):

1 - access("E1"."COMM"="E"."COMM")

Note

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

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	

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```
SCOTT          3000
SMITH          800
FORD           3000
JAMES          950
JONES          2975
CLARK          2450
BLAKE          2850
KING           5000
```

10 rows selected.

Execution Plan

Plan hash value: 3353202012

```
--
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time     |
|-----|-----|-----|-----|-----|-----|-----|
--
|   0  | SELECT STATEMENT    |      |    14 |   644 |    7  (15)| 00:00:01 |
|*   1  |  HASH JOIN ANTI     |      |    14 |   644 |    7  (15)| 00:00:01 |
|   2  |    TABLE ACCESS FULL| EMP  |    14 |   462 |    3   (0)| 00:00:01 |
|   3  |    TABLE ACCESS FULL| EMP  |    14 |   182 |    3   (0)| 00:00:01 |
|-----|-----|-----|-----|-----|-----|
--
```

Predicate Information (identified by operation id):

```
1 - access("E1"."COMM"="E"."COMM")
```

Note

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

SQL> ED

Wrote file afiedt.buf

```
1  SELECT E.Ename, Sal, Comm
2  FROM Emp E
```

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```
3 WHERE NOT EXISTS
4 (
5 SELECT 1
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.

Execution Plan

Plan hash value: 3353202012

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	644	7 (15)	00:00:01
* 1	HASH JOIN ANTI		14	644	7 (15)	00:00:01
2	TABLE ACCESS FULL	EMP	14	462	3 (0)	00:00:01
3	TABLE ACCESS FULL	EMP	14	182	3 (0)	00:00:01

Predicate Information (identified by operation id):

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```
1 - access("E1"."COMM"="E"."COMM")
```

Note

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

```
SQL> cl scr
```

```
SQL> SELECT
  2  E.Ename EmpName,
  3  E.Job EmpJob,
  4  D.Staff Staff
  5  FROM Emp E,
  6  (
  7   SELECT Deptno, COUNT(*) Staff
  8   FROM Emp
  9   GROUP BY Deptno
 10  ) D
 11 WHERE E.Deptno = D.Deptno;
```

EMPNAME	EMPJOB	STAFF
WARD	SALESMAN	6
JAMES	CLERK	6
TURNER	SALESMAN	6
ALLEN	SALESMAN	6
MARTIN	SALESMAN	6
BLAKE	MANAGER	6
ADAMS	CLERK	5
SCOTT	ANALYST	5
SMITH	CLERK	5
FORD	ANALYST	5
JONES	MANAGER	5
MILLER	CLERK	3
CLARK	MANAGER	3
KING	PRESIDENT	3

14 rows selected.

Execution Plan

Plan hash value: 2230095667

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```

-----
| Id  | Operation                      | Name | Rows  | Bytes | Cost (%CPU)| Time |
-----
| 0   | SELECT STATEMENT                |      | 65    | 3380  | 8   (25) |      |
00:00:01 |
|* 1   | HASH JOIN                      |      | 65    | 3380  | 8   (25) |      |
00:00:01 |
| 2   | TABLE ACCESS FULL             | EMP  | 14    | 364   | 3    (0) |      |
00:00:01 |
| 3   | VIEW                          |      | 14    | 364   | 4   (25) |      |
00:00:01 |
| 4   | HASH GROUP BY                  |      | 14    | 182   | 4   (25) |      |
00:00:01 |
| 5   | TABLE ACCESS FULL             | EMP  | 14    | 182   | 3    (0) |      |
00:00:01 |
-----

```

Predicate Information (identified by operation id):

```

1 - access("E"."DEPTNO"="D"."DEPTNO")

```

Note

```

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

```

```

SQL> SELECT
  2  E.ename EmpName,
  3  DE.Staff EmpDeptCount,
  4  M.ename MGRName,
  5  DM.Staff MGRDeptCount
  6  FROM Emp E,
  7  (
  8  SELECT Deptno, COUNT(*) Staff
  9  FROM Emp
 10  GROUP BY Deptno
 11  ) DE, Emp M,
 12  (
 13  SELECT Deptno, COUNT(*) Staff
 14  FROM Emp
 15  GROUP BY Deptno
 16  ) DM
 17  WHERE E.Deptno = DE.Deptno
 18  AND E.MGR = M.Empno
 19  AND M.Deptno = DM.Deptno;

```

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```

EMPNAME      EMPDEPTCOUNT MGRNAME      MGRDEPTCOUNT
-----
BLAKE                6 KING                3
WARD                 6 BLAKE               6
JAMES                6 BLAKE               6
TURNER               6 BLAKE               6
ALLEN                6 BLAKE               6
MARTIN               6 BLAKE               6
JONES                5 KING                3
SCOTT                5 JONES               5
FORD                 5 JONES               5
SMITH                5 FORD                5
ADAMS                5 SCOTT               5
CLARK                3 KING                3
MILLER               3 CLARK               3
  
```

13 rows selected.

Execution Plan

Plan hash value: 1512957497

```

-----
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time     |
-----
|  0  | SELECT STATEMENT   |      |    65 |  7670 |    16  (25)| 00:00:01 |
|*   1  |  HASH JOIN         |      |    65 |  7670 |    16  (25)| 00:00:01 |
|*   2  |    HASH JOIN       |      |    14 |  1288 |    11  (19)| 00:00:01 |
|*   3  |      HASH JOIN     |      |    14 |   924 |     7  (15)| 00:00:01 |
|   4  |        TABLE ACCESS FULL | EMP  |    14 |   462 |     3   (0)| 00:00:01 |
|   5  |        TABLE ACCESS FULL | EMP  |    14 |   462 |     3   (0)| 00:00:01 |
|   6  |          VIEW       |      |    14 |   364 |     4  (25)| 00:00:01 |
|   7  |    HASH GROUP BY   |      |    14 |   182 |     4  (25)| 00:00:01 |
  
```

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```

| 8 | TABLE ACCESS FULL| EMP | 14 | 182 | 3 (0) |
00:00:01 |
| 9 | VIEW | 14 | 364 | 4 (25) |
00:00:01 |
| 10 | HASH GROUP BY | 14 | 182 | 4 (25) |
00:00:01 |
| 11 | TABLE ACCESS FULL | EMP | 14 | 182 | 3 (0) |
00:00:01 |

```

Predicate Information (identified by operation id):

```

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

```

Note

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

```

SQL> WITH Staff AS
2   (
3   SELECT Deptno, COUNT(*) Staff
4   FROM   Emp
5   GROUP BY Deptno
6   )
7   SELECT
8   E.Ename EmpName,
9   DE.Staff EmpDeptCount,
10  M.Ename MGRName,
11  DM.Staff MGRDeptCount
12  FROM Emp E, Staff DE, Emp M, Staff DM
13  WHERE E.Deptno = DE.Deptno
14  AND E.MGR = M.Empno
15  AND M.Deptno = DM.Deptno;

```

EMPNAME	EMPDEPTCOUNT	MGRNAME	MGRDEPTCOUNT
WARD	6	BLAKE	6
JAMES	6	BLAKE	6
TURNER	6	BLAKE	6
ALLEN	6	BLAKE	6
MARTIN	6	BLAKE	6
SCOTT	5	JONES	5
FORD	5	JONES	5

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```

SMITH          5 FORD          5
ADAMS          5 SCOTT         5
CLARK          3 KING          3
MILLER         3 CLARK         3
JONES          5 KING          3
BLAKE          6 KING          3
    
```

13 rows selected.

Execution Plan

Plan hash value: 1160508563

Id	Operation	Name	Rows
0	SELECT STATEMENT		357
1	TEMP TABLE TRANSFORMATION		
2	LOAD AS SELECT	SYS_TEMP_0FD9D6601_23C5CC	
3	HASH GROUP BY		14
4	TABLE ACCESS FULL	EMP	14
5	HASH JOIN		357
6	HASH JOIN		65
7	HASH JOIN		14
8	TABLE ACCESS FULL	EMP	14
9	TABLE ACCESS FULL	EMP	14
10	VIEW		14
11	TABLE ACCESS FULL	SYS_TEMP_0FD9D6601_23C5CC	14
12	VIEW		14

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```
.....
| 13 |      TABLE ACCESS FULL      | SYS_TEMP_0FD9D6601_23C5CC | 14 |
182 |      2      (0) | 00:00:01 |
-----
-----
```

Predicate Information (identified by operation id):

```
-----
5 - access("M"."DEPTNO"="DM"."DEPTNO")
6 - access("E"."DEPTNO"="DE"."DEPTNO")
7 - access("E"."MGR"="M"."EMPNO")
```

Note

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

SQL> SPOOL OFF

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Date : 24th May 2018 Time : 5:30AM To 07.00AM

For Enquiries And Registrations Contact

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