Announcing A New Batch For

Oracle SQL And PL/SQL 11g R2

(Covering In-Depth Syllabus With Industry Oriented Focus)

Ву

Sathish Yellanki

Date

: 2nd May, 2018

Time: 4 PM To 5 PM

For Enquiries And Registrations Contact
Sathish Yellanki Institute of Software Solutions

Contact Numbers

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SkyEss Techno Solutions Pvt. Ltd.

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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 35 101.4	610	1
TKB SPORT SHOP 58 101.4	610	3
SQL> cl scr	16/10	
SQL> SELECT 2 E.Ename EmpName, 3 E.Deptno EmpDeptno, 4 M.Ename MGRName, 5 M.Deptno MGRDeptno 6 FROM Emp E, Dept D, E	mp M	

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

E.Deptno = D.Deptno;

7 WHERE E.MGR = M.Empno AND

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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

 [d Operation		Name	Rows	 	Bytes		Cost	(%CPU)	Time
 	0 SELECT STATEMENT	1	ı	13		858	1	7	' (15)	00:00:01
 * 	1 HASH JOIN		1	13	I	858	1	7	(15)	00:00:01

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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)
00:00:01
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):
<pre>1 - access("E"."MGR"="M"."EMPNO") 2 - access("E"."DEPTNO"="D"."DEPTNO")</pre>
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

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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

| Name | Rows | Bytes | Cost (%CPU) | Time | Id | Operation | 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 TABLE ACCESS FULL | DEPT | 4 | 120 | 3 (0) | 3 | 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):

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.....

```
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

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Id C	peration	Na	ıme	Rows	 	Bytes		Cost (%CPU) Time
 I 0 I S	ELECT STATEMENT		 I	13	 I	1534	· 	15 (20)
00:00:01		'	'					
1 00:00:01	SORT ORDER BY	l	I	13	ı	1534	١	15 (20)
* 2 00:00:01	HASH JOIN		I	13		1534		14 (15)
* 3	HASH JOIN		-	13		1248		10 (10)
00:00:01	HASH JOIN		I	14		882	1	7 (15)
00:00:01	TABLE ACCESS F	TIT.I.I DE	PT I	4	ı	120		3 (0)
00:00:01						111		(1)
6 00:00:01	TABLE ACCESS F	ULL EM	IP	14	1	462		3 (0)
7 00:00:01	TABLE ACCESS FU	LL EM	IP	14		462		3 (0)
8 00:00:01	TABLE ACCESS FUL	L DE	PT	4	I	88		3 (0)
2 - ac 3 - ac	e Information (iden ccess("M"."DEPTNO"= ccess("E"."MGR"="M" ccess("E"."DEPTNO"=	"DM"."D	DEPTNO	 ")	on 	1d): 		
Note	eess (I . billing	. DD . D	, LI IIVO	,				
 - dyna	mic sampling used	for thi	s sta	tement	ī.	(level=	=2)
SQL> cl s	scr							

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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	1 1	Rows	1	Rvtes	ı	Cost	(%CPU)	Time
operation	Ivanic				Бусс5	' 			11mc
	7//								
0 SELECT STATEMENT	O r		14		1414		10	(10)	
00:00:01 * 1 HASH JOIN	ı	I	14		1414		10	(10)	
00:00:01 * 2 HASH JOIN	1		14		952	I	7	(15)	
00:00:01 3 TABLE ACCESS FU	ILL DEPT	I	4		88		3	(0)	
00:00:01 4 TABLE ACCESS FU 00:00:01	ULL EMP	I	14		644		3	(0)	
5 TABLE ACCESS FUI 00:00:01	L EMP		14	I	462		3	(0)	

Predicate Information (identified by operation id):

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```
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

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```
.....
| 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 |
00:00:01
       TABLE ACCESS FULL | EMP | 14 | 644 |
| 4 |
00:00:01
5 | TABLE ACCESS FULL | EMP | 14 | 462 |
                                              (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)
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
           2850 ACCOUNTING KING
                                        5000 ACCOUNTING
```

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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 30 | 3030 | 10 (10) | | 0 | SELECT STATEMENT 00:00:01 | |* 1 | HASH JOIN 30 | 3030 | 10 (10) | 00:00:01 | 14 | 952 | 7 (15) | |* 2 | HASH JOIN 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 | TABLE ACCESS FULL | EMP | 14 | 462 | 3 (0) | 00:00:01

Predicate Information (identified by operation id):

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

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^{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

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```
| 14 | 1904 | 14 (15) |
|* 1 | HASH JOIN
00:00:01 I
|* 2 | HASH JOIN | 14 | 1596 | 10 (10)|
00:00:01
                                              7 (15)|
|* 3 | HASH JOIN | 14 | 952 |
00:00:01 |
| 4 | TABLE ACCESS FULL| DEPT | 4 | 88 |
                                                   (0)
00:00:01
| 5 | TABLE ACCESS FULL| EMP | 14 | 644 |
                                                   (0)
00:00:01
| 6 | TABLE ACCESS FULL | EMP | 14 | 644 |
                                                3
00:00:01
7 | TABLE ACCESS FULL | DEPT | 4 |
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
SOL> SELECT
 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
   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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Data Modeling, Linux/Unix, Big Data

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	l	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 FUL	L DEPT		4		88		3	(0)	
00:00:01									
5 TABLE ACCESS FUL	L 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	7
			M_{\odot}	
0 SELECT :	STATEMENT 6) 00:00:01			1
1 NESTED				I
2 NESTE		1 UL	I	1
3 MERGI 146 12 (1	E JOIN CARTESIAN 7) 00:00:01	1/0,	I	1
4 NES!	FED LOOPS	18,	I	I
	STED LOOPS 3) 00:00:01		I	1
85 8 (25)	ERGE JOIN) 00:00:01	I	•	1
195 4 (2)	SORT JOIN 5) 00:00:01	I	•	5
195 3 (SALGRADE	l	5
i i	FILTER 	l		
644 4 (2)	SORT JOIN 5) 00:00:01		•	4
644 3 (1	TABLE ACCESS FULL 0) 00:00:01			4
0 (0)	00:00:01	DEPT_PRIMARY_		1
22 1 (0)	BLE ACCESS BY INDEX 1	ROWID DEPT	·	1
195 11 (19	FER SORT 9) 00:00:01	I	•	5
195 3 (0	BLE ACCESS FULL 0) 00:00:01	SALGRADE	l	5
* 16 INDE	X UNIQUE SCAN 00:00:01	EMP_PRIMARY_K	ŒY	1

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..... |* 17 | TABLE ACCESS BY INDEX ROWID | EMP 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) SOL> cl scr SQL> SELECT Ename, Dept.Deptno, Dname, Loc 2 FROM Emp CROSS JOIN Dept; ENAME DEPTNO DNAME LOC 10 ACCOUNTING NEW YORK 10 ACCOUNTING NEW YORK 10 ACCOUNTING BLAKE 10 ACCOUNTING NEW YORK
10 ACCOUNTING NEW YORK CLARK 10 ACCOUNTING JONES MARTIN ALLEN TURNER JAMES WARD FORD 10 ACCOUNTING NEW YORK
10 ACCOUNTING NEW YORK
10 ACCOUNTING NEW YORK
10 ACCOUNTING NEW YORK SMITH SCOTT ADAMS MILLER KING 20 RESEARCH DALLAS BLAKE 20 RESEARCH DALLAS CLARK 20 RESEARCH DALLAS ENAME DEPTNO DNAME LOC 20 RESEARCH

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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	3.0	SALES	CHICAGO
JAMES		SALES	CHICAGO
WARD		SALES	CHICAGO
FORD		SALES	CHICAGO
SMITH		SALES	CHICAGO
SCOTT		SALES	CHICAGO
ADAMS	30		CHICAGO
MILLER	30		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
WIIII	10	OILIVIIIOND	DODION
ENAME	DEPTNO	DNAME	LOC
FORD	40	OPERATIONS	BOSTON
SMITH	40	OPERATIONS	BOSTON
SCOTT	40	OPERATIONS	BOSTON
ADAMS	40	OPERATIONS	BOSTON
MILLER	40	OPERATIONS OPERATIONS	BOSTON
11111111	40	OLLIVALIONS	D0010N

56 rows selected.

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.....

```
Execution Plan
Plan hash value: 2034389985
0 | SELECT STATEMENT |
                                      56 | 2072 |
                                                       10
00:00:01 |
| 1 | MERGE JOIN CARTESIAN| |
                                       56 |
                                            2072
                                                       10
                                                             (0)
00:00:01 |
        TABLE ACCESS FULL | DEPT |
                                              120
| 2 |
                                                             (0)|
00:00:01
   3 | BUFFER SORT |
                                        14 |
                                                             (0)|
00:00:01
         TABLE ACCESS FULL | EMP
| 4 |
                                                             (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> /
             DEPTNO DNAME
                                 LOC
ENAME
                 10 ACCOUNTING NEW YORK
KING
BLAKE
CLARK
JONES
MARTIN
```

NEW YORK NEW YORK

NEW YORK

NEW YORK

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10 ACCOUNTING

10 ACCOUNTING

10 ACCOUNTING

10 ACCOUNTING

ALLEN TURNER

JAMES

WARD

FORD

••••••			
SMITH	1 0	ACCOUNTING	NEW YORK
SCOTT		ACCOUNTING	NEW YORK
ADAMS		ACCOUNTING	NEW YORK
			NEW YORK
MILLER		ACCOUNTING	
KING		RESEARCH	DALLAS
BLAKE		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		RESEARCH	DALLAS
FORD	20	RESEARCH	DALLAS
SMITH	-	RESEARCH	DALLAS
SCOTT		RESEARCH	DALLAS
ADAMS		RESEARCH	DALLAS
MILLER		RESEARCH	DALLAS
KING		SALES	CHICAGO
BLAKE		SALES	CHICAGO
CLARK		SALES	CHICAGO
JONES		SALES	CHICAGO
MARTIN		SALES	CHICAGO
ALLEN	30	SALES	CHICAGO
ENAME	DEPTNO	DNAME	LOC
		DIAME	
TURNER		SALES	CHICAGO
JAMES		SALES	CHICAGO
WARD	30	SALES	CHICAGO
FORD	30	SALES	CHICAGO
SMITH	30	SALES	CHICAGO
SCOTT	30	SALES	CHICAGO
A DAMO	20	SALES	CHICAGO
ADAMS	30	SALLS	0111 01100
ADAMS MILLER	30	SALES	CHICAGO
MILLER	30	SALES OPERATIONS	CHICAGO BOSTON
MILLER KING BLAKE	30 40	SALES OPERATIONS OPERATIONS	CHICAGO BOSTON BOSTON
MILLER KING BLAKE CLARK	30 40 40 40	SALES OPERATIONS OPERATIONS OPERATIONS	CHICAGO BOSTON BOSTON BOSTON
MILLER KING BLAKE CLARK JONES	30 40 40 40 40	SALES OPERATIONS OPERATIONS OPERATIONS OPERATIONS	CHICAGO BOSTON BOSTON BOSTON BOSTON
MILLER KING BLAKE CLARK JONES MARTIN	30 40 40 40 40 40	SALES OPERATIONS OPERATIONS OPERATIONS OPERATIONS OPERATIONS	CHICAGO BOSTON BOSTON BOSTON BOSTON BOSTON
MILLER KING BLAKE CLARK JONES MARTIN ALLEN	30 40 40 40 40 40	SALES OPERATIONS OPERATIONS OPERATIONS OPERATIONS OPERATIONS OPERATIONS	CHICAGO BOSTON BOSTON BOSTON BOSTON BOSTON BOSTON
MILLER KING BLAKE CLARK JONES MARTIN ALLEN TURNER	30 40 40 40 40 40 40 40	SALES OPERATIONS OPERATIONS OPERATIONS OPERATIONS OPERATIONS OPERATIONS OPERATIONS	CHICAGO BOSTON BOSTON BOSTON BOSTON BOSTON BOSTON BOSTON
MILLER KING BLAKE CLARK JONES MARTIN ALLEN	30 40 40 40 40 40	SALES OPERATIONS OPERATIONS OPERATIONS OPERATIONS OPERATIONS OPERATIONS	CHICAGO BOSTON BOSTON BOSTON BOSTON BOSTON BOSTON

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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	Ro	ws	Bytes	Cost (%CPU) T:	ime
0 SELECT STATEMENT	N	56	2072	10	(0)	
00:00:01			0000	4.0		
1 MERGE JOIN CARTESIAN 00:00:01		56	2072	10	(0)	
2 TABLE ACCESS FULL DEPT	1	4	120	3	(0)	
00:00:01						
3 BUFFER SORT	I	14	98	7	(0)	
00:00:01 4 TABLE ACCESS FULL EMP 00:00:01	I	14	98	2	(0)	

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 BLAKE CLARK JONES MARTIN ALLEN TURNER JAMES WARD FORD SMITH SCOTT ADAMS MILLER 14 rows selected.	10 ACCOUNTING 30 SALES 10 ACCOUNTING 20 RESEARCH 30 SALES 30 SALES 30 SALES 30 SALES 20 RESEARCH 20 RESEARCH 20 RESEARCH 20 RESEARCH 20 RESEARCH 20 RESEARCH	NEW YORK CHICAGO NEW YORK DALLAS CHICAGO CHICAGO CHICAGO CHICAGO CHICAGO DALLAS DALLAS DALLAS DALLAS NEW YORK			
D					
Execution Plan					
Plan hash value: 6	15168685	10/10			
Id Operation	Name	Rows Bytes	Cost (%CPU) Time	
		,			
0 SELECT STA	TEMENT	14 700	7	(15) 00:00:01	
* 1 HASH JOIN		14 700	7	(15) 00:00:01	
2 TABLE AC	CESS FULL DEPT	4 120	3	(0) 00:00:01	
3 TABLE AC	CESS FULL EMP	14 280	3	(0) 00:00:01	
Predicate Information (identified by operation id): 1 - access("EMP"."DEPTNO"="DEPT"."DEPTNO")					
Note					
 - dynamic sampl	ing used for this	statement (le	vel=2)		

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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	on		Name		Rows		Bytes	1	Cost	(%CPU)	Time
 *	0	SELECT S		1T			14 14		700 700				00:00:01
i	2		ACCESS	FULL	DEPT	1		1		1			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("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; DEPTNO DNAME LOC ENAME ----- ----10 ACCOUNTING NEW YORK 30 SALES CHICAGO BLAKE 30 SALES 10 ACCOUNTING CLARK NEW YORK DALLAS 20 RESEARCH JONES 30 SALES MARTIN CHICAGO CHICAGO ALLEN 30 SALES CHICAGO 30 SALES TURNER 30 SALES CHICAGO JAMES 30 SALES WARD CHICAGO 20 RESEARCH DALLAS FORD 20 RESEARCH DALLAS SMITH SCOTT 20 RESEARCH DALLAS 20 RESEARCH 20 RESEARCH DALLAS
10 ACCOUNTING NEW YORK ADAMS MILLER 14 rows selected. Execution Plan _____ Plan hash value: 615168685 | Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time

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Spool File For Oracle Students Trained by Mr.Sathish Yellanki										
0 SELECT	STATEMENT	1	1	14	1	700		7	(15)	00:00:01
 * 1 HASH	JOIN	1	1	14	1	700		7	(15)	00:00:01
2 TABI	E ACCESS FU	LL DEPT	1	4	1	120		3	(0)	00:00:01
3 TABI	LE ACCESS FU	LL EMP	I	14	I	280		3	(0)	00:00:01
Predicate Info	ermation (ide						:	S	N	
Note	campling used					2	zel:	=2)		
SQL> ED Wrote file afi	.edt.buf					0				
1 SELECT Er 2* FROM Emp SQL> / SELECT Ename, ERROR at line ORA-25155: col	NATURAL JOIN Emp.Deptno, * 1:	N Dept Dname,	Loc		not	have	e d.	ualifie	er	
SQL> SELECT Ename, Deptno, Dname, Loc 2 FROM Emp JOIN Dept 3 USING(Deptno); ENAME DEPTNO DNAME LOC										
KING BLAKE CLARK JONES	10 ACCC 30 SALI	OUNTING ES OUNTING	NE CH	EW Y HIC <i>e</i> EW Y	.GO ORK		-			

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 SMITH SCOTT ADAMS	20 RESEARCH 20 RESEARCH 20 RESEARCH 20 RESEARCH	DALLAS DALLAS DALLAS DALLAS						
MILLER	10 ACCOUNTING		ζ					
14 rows selected. Execution Plan					(,55)			
Plan hash value: 615168685								
 Id	Name	Rows E	Bytes Co	ost (%0	CPU) Time			
 0 SELECT STAT	TEMENT	14	700	7	(15) 00:00:01			
 * 1 HASH JOIN	1	14	700	7	(15) 00:00:01			
2 TABLE ACC	CESS FULL DEPT	4	120	3	(0) 00:00:01			
3 TABLE ACC	CESS FULL EMP	14	280	3	(0) 00:00:01			
Predicate Information	ion (identified	by operatio	on id):					
1 - access("EMP"	'."DEPTNO"="DEPT	"."DEPTNO"))					
Note								
- dynamic sampli	ing used for thi	s statement	(level=2	2)				
SQL> ED Wrote file afiedt.buf								
1 SELECT Ename, 2 FROM Emp INNER 3* USING(Deptno) SQL> /	Deptno, Dname, R JOIN Dept	Loc						

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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

 I 	d	Operation	Name	l Ro	ws		Bytes		Cost	(%CPU)	Time
			UP.								
	0	SELECT STATEMEN	r		14		700		7	(15)	00:00:01
 * 	1	HASH JOIN		I	14		700		7	(15)	00:00:01
	2	TABLE ACCESS	FULL DEPT		4		120		3	(0)	00:00:01
 	3	TABLE ACCESS	FULL EMP	I	14	I	280		3	(0)	00:00:01

Predicate Information (identified by operation id):

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

Note

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- 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)

SOL> /

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

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 Ic	 d	Operation		Name	 	Rows		Bytes		Cost	(%CPU)	Time
	0 1					1.4		700			/1 []	00 00 01
l	0	SELECT STATEMENT			ı	14	ı	700		/	(15)	00:00:01
*	1	HASH JOIN	1			14		700		7	(15)	00:00:01
	2	TABLE ACCESS FU	LL	DEPT	I	4		120		3	(0)	00:00:01
	3	TABLE ACCESS FU	LL	EMP		14		280		3	(0)	00:00:01
Pred	dica	te Information (id	ent	ified	b	y opera	at:	ion 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
                                       700 |
|* 1 | HASH JOIN | 14 |
   2 | TABLE ACCESS FULL| DEPT |
                                                   (0) \mid 00:00:01
  3 | TABLE ACCESS FULL| EMP |
                                               3 (0) | 00:00:01
                                       280 I
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
SOL> 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	Nam	ne	Rows		Bytes		Cost	 (%CPU)	Time
10									
0 SELECT STATEMENT	1		13		520		7	(15)	00:00:01
 * 1 HASH JOIN	I		13		520		7	(15)	00:00:01
2 TABLE ACCESS FUI	LL EMP	?	14		280		3	(0)	00:00:01
3 TABLE ACCESS FUI	LL 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)

SOL> 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

| Name | Id | Operation

| Rows | Bytes | Cost (%CPU) | Time |

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```
.....
  0 | SELECT STATEMENT
                                                1 | 94 |
9
  (23) | 00:00:01 |
  1 | NESTED LOOPS
                                                       2 | NESTED LOOPS
                             1 |
                                                       94 |
 (23) | 00:00:01 |
9
                                                        72 |
   3 | MERGE JOIN
                             1 |
 (25) | 00:00:01 |
  4 | SORT JOIN
                                                       195 |
  (25) | 00:00:01 |
   5 | TABLE ACCESS FULL | SALGRADE
                                                       195 I
  (0) | 00:00:01 |
3
|* 6 | FILTER
|* 7 | SORT JOIN
                                                 14 I
                                                       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) | 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")</pre>
  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
   FROM Emp NATURAL JOIN Dept
 3 JOIN SalGrade
 4* ON Emp.Sal BETWEEN LoSal AND HiSal
SOL> /
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 Cost (%CPU) Time	Name	R0	ows	Bytes
	ı	I	1	94
1 NESTED LOOPS	I	1	1	I
	1	1	1	94
3 MERGE JOIN	I	1	1	72
8 (25) 00:00:01 4 SORT JOIN	1		5	195
4 (25) 00:00:01 5 TABLE ACCESS FULL	SALGRADE	1	5	195
3 (0) 00:00:01 * 6 FILTER	I		1	1
	1		14	462
4 (25) 00:00:01 8 TABLE ACCESS FULL 3 (0) 00:00:01	EMP	I	14	462

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

Predicate Information (identified by operation id):

6 - filter("EMP"."SAL"<="HISAL")</pre> 7 - access("EMP"."SAL">="LOSAL") filter("EMP"."SAL">="LOSAL")

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

Note

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

SOL> 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
CLARK BLAKE JONES FORD SCOTT	2450 2850 2975 3000 3000	4 4 4 4 4	10 30 20 20 20	ACCOUNTING SALES RESEARCH RESEARCH RESEARCH

14 rows selected.

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```
Execution Plan
Plan hash value: 4138379338
| Id | Operation | Name
Cost (%CPU) | Time |
                                      | Rows
  0 | SELECT STATEMENT
                            94 |
9 (23) | 00:00:01 |
| 1 | NESTED LOOPS
       2 | NESTED LOOPS
9 (23) | 00:00:01 |
  3 | MERGE JOIN
8 (25) | 00:00:01 |
  4 | SORT JOIN
                                                5 I
                                                    195 I
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) | 00:00:01 |
  10 | TABLE ACCESS BY INDEX ROWID| DEPT
                                          1 | 22 |
 (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")
```

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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 Cost (%CPU) Time	Name	Ro	ws I	 Bytes
0 SELECT STATEMENT	I		1	127
13 (24) 00:00:01 * 1 HASH JOIN 13 (24) 00:00:01	1		1	127

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2	NESTED LOOPS		I	I	
1	1				
3	NESTED LOOPS			1	107
9	(23) 00:00:01			<u>.</u>	
4	MERGE JOIN			1	85
8	(25) 00:00:01		1	E 1	195
1 3 1	SORT JOIN (25) 00:00:01		ı	5	195
6	·	SALGRADE	1	5	195
1 3	(0) 00:00:01	0111101111111	'		
* 7	FILTER		1 1		
i	T T				
* 8	SORT JOIN	. (14	644
4	(25) 00:00:01				
9		EMP	T)	14	644
] 3	(0) 00:00:01				
* 10		DEPT_PRIMARY_KEY		1	
0	(0) 00:00:01 TABLE ACCESS BY INDEX ROWID	DEDM	1	1	22
	(0) 00:00:01	DELI	ı	Τ	22
	TABLE ACCESS FULL	EMP	ı	14	280
3	(0) 00:00:01	LITT	1	1	200
1 - a 7 - f 8 - a	te Information (identified by operation) access("E"."EMPNO"="M"."MGR") filter("E"."SAL"<="HISAL") access("E"."SAL">="LOSAL") filter("E"."SAL">="LOSAL") access("E"."DEPTNO"="D"."DEPTNO"				
Note	recess(E . Delino - D . Delino	,			
- dyn	namic sampling used for this sta	tement (level=2)			
SQL> cl	scr				
2 FRC	ECT Ename, Dept.Deptno, Dname, OM Emp RIGHT JOIN Dept Emp.Deptno = Dept.Deptno;	Loc			
ENAME	DEPTNO DNAME LO	OC			
KING	10 ACCOUNTING NE	W YORK			

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	• • • • • • • • • • • • • • • • • • • •	•••••	•••••		••••••	••••••	•••••	•••••
BLAKE CLARK JONES MARTIN ALLEN TURNER JAMES WARD FORD SMITH SCOTT ADAMS MILLER	30 SALES 10 ACCOUNTING 20 RESEARCH 30 SALES 30 SALES 30 SALES 30 SALES 20 RESEARCH 20 RESEARCH 20 RESEARCH 20 RESEARCH 10 ACCOUNTING 40 OPERATIONS		CHICAGO NEW YOR DALLAS CHICAGO CHICAGO CHICAGO CHICAGO DALLAS DALLAS DALLAS DALLAS DALLAS NEW YOR BOSTON		(0)			5
15 rows selected.								
Execution Plan								
Execution Flan								
Plan hash value: 3	3713469723		10	10.				
Id Operation	Name		Rows 1	Bytes	Cost	; (%C	PU)	Time
0 SELECT STA	TEMENT I			700	1	7 (00 00 01
	TIEMENT	ı	14	700	1	, (15)	00:00:01
 * 1 HASH JOIN	Cy.		14					00:00:01
 * 1 HASH JOIN 2 TABLE AC	I OUTER	 		700	I	7 (15)	
2 TABLE AC	I OUTER		14	700 120	 	7 (15)	00:00:01
2 TABLE AC	OUTER		14	700 120	 	7 (15)	00:00:01
2 TABLE AC	OUTER		14	700 120	 	7 (15)	00:00:01
2 TABLE AC	CESS FULL DEPT	l lby	14 4 14 	700 120 280		7 (15)	00:00:01
2 TABLE AC	OUTER CESS FULL DEPT	l lby	14 4 14 	700 120 280		7 (15)	00:00:01
2 TABLE AC	CESS FULL DEPT	 	14 4 14 	700 120 280 		7 (15)	00:00:01
2 TABLE AC	CCESS FULL DEPT	 	14 4 14 	700 120 280 		7 (15)	00:00:01
2 TABLE AC	CCESS FULL DEPT	l by	14 4 14 operation T"."DEPTI	700 120 280 on id) 	 	7 (15)	00:00:01

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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

 I	d	Operation		Name	Rows		Bytes		Cost	(%CPU)	Time
	0 1	SELECT STATEMEN	IT	 	14		700		7	' (15)	00:00:01
*	1	HASH JOIN OUTE	ER	1	14	I	700		7	7 (15)	00:00:01
 	2	TABLE ACCESS	FULL	DEPT	4	I	120		3	(0)	00:00:01

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..... 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> / DEPTNO DNAME LOC ENAME 10 ACCOUNTING NEW YORK 10 ACCOUNTING NEW YORK CLARK 10 ACCOUNTING KING NEW YORK 20 RESEARCH ADAMS DALLAS 20 RESEARCH SCOTT DALLAS 20 RESEARCH DALLAS SMITH FORD 20 RESEARCH DALLAS JONES 20 RESEARCH DALLAS 30 SALES CHICAGO WARD CHICAGO 30 SALES JAMES 30 SALES TURNER CHICAGO 30 SALES CHICAGO ALLEN 30 SALES CHICAGO MARTIN BLAKE 30 SALES CHICAGO 14 rows selected.

Execution Plan

Plan hash value: 3387915970

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	on Name	Rows Bytes Cost (%CPU) Time
 0 SELECT	STATEMENT	14 700 7 (15) 00:00:
 * 1 HASH J	OIN OUTER	14 700 7 (15) 00:00:
 2 TABLE	ACCESS FULL EMP	14 280 3 (0) 00:00:
 3 TABLE	ACCESS FULL DEPT	4 120 3 (0) 00:00:
1 - access(" Note dynamic sa SQL> ED Wrote file afie 1 SELECT Ena 2 FROM Dept		"."DEPTNO"(+)) s statement (level=2)
ENAME	DEPTNO DNAME	LOC
KING BLAKE CLARK JONES MARTIN ALLEN TURNER JAMES WARD FORD SMITH	10 ACCOUNTING 30 SALES 10 ACCOUNTING 20 RESEARCH 30 SALES 30 SALES 30 SALES 30 SALES 30 SALES 20 RESEARCH 20 RESEARCH	NEW YORK CHICAGO NEW YORK DALLAS CHICAGO CHICAGO CHICAGO CHICAGO CHICAGO CHICAGO DALLAS DALLAS

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								•••••
SCOTT ADAMS MILLER	20 RESEARC 20 RESEARC 10 ACCOUNT 40 OPERATION	H ING	NEW Y	S ORK				
15 rows selected								
Execution Plan							- <	51
Plan hash value:	3713469723							
	n 1			Byte	es	Cost	(%CPU)	Time
 0 SELECT S	FATEMENT	1	14	7	00	7	7 (15)	00:00:01
 * 1 HASH JO:	IN OUTER	1	14	1 70	00	7	(15)	00:00:01
 2 TABLE 2	ACCESS FULL	DEPT	4	1 12	20	3	3 (0)	00:00:01
 3 TABLE <i>i</i> 	ACCESS FULL	EMP	14	28	30	3	3 (0)	00:00:01
Predicate Informa	ation (identi	fied by	opera	tion:	id):			
1 - access("El	MP"."DEPTNO"(+)="DEP	T"."DE	PTNO")			
Note	0)							
- dynamic sam	oling used for	r this	statem	nent (level	L=2)		
SQL> ED Wrote file afied	.buf							
1 SELECT Ename 2 FROM Dept Ft 3* ON Emp.Depti SQL> /	JLL OUTER JOI	N Emp	e, Loc	:				
ENAME DI	EPTNO 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	
	40	OPERATIONS	BOSTON	

15 rows selected.

Execution Plan

Plan hash value: 51889263

Id	Ċ	Name	I	Rows	I	Bytes	I	Cost (%	CPU)
		,							
0 SELECT STATEMENT				15		555	-	7	(15)
00:00:01		1717 EQ T 0		1 -				7	/1 E \ I
1 VIEW 00:00:01	I	VW_FOJ_0		15	ı	555	ı	7	(15)
* 2 HASH JOIN FULL OUT	'ER		I	15		750	1	7	(15)
00:00:01									
3 TABLE ACCESS FULL	ı	DEPT		4		120	-	3	(0)
00:00:01									
4 TABLE ACCESS FULL	ı	EMP		14		280	-	3	(0)
00:00:01									

Predicate Information (identified by operation id):

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

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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

	Name	 Ro	 ws	B	ytes	Cos	 t (^ș	 €CPU)
0 SELECT STATEMENT 00:00:01	ı	1	15		555	1	7	(15)

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

Predicate Information (identified by operation id):

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

Note

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

SQL> SPOOL OFF

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Ву

Sathish Yellanki

Date : 2nd May, 2018

Time: 4 PM To 5 PM

For Enquiries And Registrations Contact
Sathish Yellanki Institute of Software Solutions

Contact Numbers

040 -23710047, 9985798869

WhatsApp: 9985798869

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