SQL> cl scr

SQL> SELECT Ename

- 2 FROM Emp
- 3 WHERE Deptno = 10
- 4 UNION
- 5 SELECT Dname
- 6 FROM Dept
- 7 WHERE Deptno = 10;

ENAME

ACCOUNTING

CLARK

KING

MILLER

Execution Plan

Plan hash value: 59031007

	Operation (%CPU) Time	-		Name	Row	s 		Bytes
		() ()						
0	SELECT STATEMENT	1			1	4		82
	6 (50) 00:00:01							
1	SORT UNIQUE	70,				4		82
'	6 (50) 00:00:01							
2	UNION-ALL							
		I						
* 3	TABLE ACCESS	FULL		EMP		3		60
	3 (0) 00:00:01							
4	TABLE ACCESS	BY INDEX	ROWID	DEPT		1		22
	(0) 00:00:01							
* 5	INDEX UNIQUE	SCAN		DEPT_PRIMARY_KEY		1		
	1 (0) 00:00:01	I						
	X							

Predicate Information (identified by operation id):

3 - filter("DEPTNO"=10)

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..... 5 - access ("DEPTNO"=10) Note - dynamic sampling used for this statement (level=2) SQL> ED Wrote file afiedt.buf 1 SELECT Ename, Dname 2 FROM Emp, Dept 3* WHERE Emp.Deptno = Dept.Deptno SQL> ED Wrote file afiedt.buf 1 SELECT Ename, Dname 2 FROM Emp, Dept 3* WHERE Emp.Deptno = Dept.Deptno AND Dept.Deptno = 10 SQL> / ENAME DNAME ______ KING ACCOUNTING
CLARK ACCOUNTING
MILLER ACCOUNTING Execution Plan Plan hash value: 1567168462 | Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time _____ 0 | SELECT STATEMENT | 3 | 126 | $(0) \mid 00:00:01 \mid$ 1 | NESTED LOOPS | 3 | 126 | (0) | 00:00:01 | (U) | UU:UU:UI | 2 | TABLE ACCESS BY INDEX ROWID| DEPT | 1 | 22 | (0) | 00:00:01 | 1 INDEX UNIQUE SCAN | DEPT PRIMARY KEY | 3 | 1 | (0) | 00:00:01 | 1 4 | TABLE ACCESS FULL | EMP 1 3 1 60 1 (0) | 00:00:01 |

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```
.....
Predicate Information (identified by operation id):
  3 - access("DEPT"."DEPTNO"=10)
  4 - filter("EMP"."DEPTNO"=10)
Note
  - dynamic sampling used for this statement (level=2)
SOL> ED
Wrote file afiedt.buf
 1 SELECT Ename
  2 FROM Emp
 3 UNION
 4 SELECT Dname
 5* FROM Dept
SQL> /
ENAME
ACCOUNTING
ADAMS
ALLEN
BLAKE
CLARK
FORD
JAMES
JONES
KING
MARTIN
MILLER
OPERATIONS
RESEARCH
SALES
SCOTT
SMITH
TURNER
ENAME
WARD
```

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18 rows selected. Execution Plan Plan hash value: 2375100902 | Name | Rows | Bytes | Cost (%CPU)| | Id | Operation 18 I 0 | SELECT STATEMENT | 134 I 00:00:01 | 1 | SORT UNIQUE | 134 (63)00:00:01 2 | UNION-ALL 3 | TABLE ACCESS FULL | EMP (0)|00:00:01 | 4 | TABLE ACCESS FULL | DEPT 36 I (0)|00:00:01 Note - dynamic sampling used for this statement (level=2) SQL> cl scr SQL> SELECT Job 2 FROM Emp 3 WHERE Deptno 4 UNION 5 SELECT Job 6 FROM Emp WHERE Deptno = 30;JOB CLERK MANAGER PRESIDENT SALESMAN

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Execution Plan Plan hash value: 3774834881 | 0 | SELECT STATEMENT | 9 | 171 | 00:00:01 | | 1 | SORT UNIQUE | 9 | 171 I 00:00:01 2 | UNION-ALL | |* 3 | TABLE ACCESS FULL| EMP (0)|00:00:01 | |* 4 | TABLE ACCESS FULL| EMP (0) 00:00:01 Predicate Information (identified by operation id): 3 - filter("DEPTNO"=10) 4 - filter("DEPTNO"=30) Note - dynamic sampling used for this statement (level=2) SOL> ED Wrote file afiedt.buf 1 SELECT DISTINCT Job 2 FROM Emp 3* WHERE Deptno IN(10, 30) SQL> / JOB SALESMAN CLERK PRESIDENT

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```
.....
MANAGER
Execution Plan
Plan hash value: 3709190377
O | SELECT STATEMENT | |
                                   171 |
  1 | HASH UNIQUE | |
                                            (25) \mid 00:00:01
   2 | TABLE ACCESS FULL| EMP |
                                             (0) \mid 00:00:01
Predicate Information (identified by operation id):
  2 - filter("DEPTNO"=10 OR "DEPTNO"=30)
Note
____
  - dynamic sampling used for this statement (level=2)
SQL> ED
Wrote file afiedt.buf
 1 SELECT Job
 2 FROM Emp
 3 WHERE Deptno = 10
 4 UNION ALL
 5 SELECT Job
 6 FROM Emp
 7* WHERE Deptno = 30
SQL> /
JOB
PRESIDENT
MANAGER
```

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```
CLERK
MANAGER
SALESMAN
SALESMAN
SALESMAN
CLERK
SALESMAN
9 rows selected.
Execution Plan
Plan hash value: 1301082189
-----
| Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time
                                      171 | 6 (50) | 00:00:01
  0 | SELECT STATEMENT |
| 1 | UNION-ALL |
   2 | TABLE ACCESS FULL| EMP
                                  3 | 57 | 3 (0) | 00:00:01
|* 3 | TABLE ACCESS FULL | EMP
                                  6 | 114 | 3 (0) | 00:00:01
Predicate Information (identified by operation id):
  2 - filter("DEPTNO"=10)
  3 - filter("DEPTNO"=30)
Note
  - dynamic sampling used for this statement (level=2)
SQL> ED
Wrote file afiedt.buf
 1 SELECT Job
 2 FROM Emp
```

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```
3* WHERE Deptno IN(10, 30)
SQL> /
JOB
PRESIDENT
MANAGER
MANAGER
SALESMAN
SALESMAN
SALESMAN
CLERK
SALESMAN
CLERK
9 rows selected.
Execution Plan
Plan hash value: 3956160932
                         | Name | Rows | Bytes | Cost (%CPU)| Time
| Id | Operation
  0 | SELECT STATEMENT
                                 9 | 171 | 3 (0) | 00:00:01
                                     9 | 171 | 3 (0) | 00:00:01
   1 | TABLE ACCESS FULL | EMP |
Predicate Information (identified by operation id):
   1 - filter("DEPTNO"=10 OR "DEPTNO"=30)
Note
   - dynamic sampling used for this statement (level=2)
SOL> ED
Wrote file afiedt.buf
```

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```
1 SELECT DISTINCT Job
 2 FROM
 3 (
 4
   SELECT Job
 5
   FROM Emp
   WHERE Deptno = 10
 6
 7
   UNION ALL
   SELECT Job
 9 FROM Emp
10 WHERE Deptno = 30
11* )
SOL> /
JOB
CLERK
SALESMAN
PRESIDENT
MANAGER
Execution Plan
Plan hash value: 1460831672
| Id | Operation
                        Name | Rows | Bytes | Cost (%CPU) | Time
0 | SELECT STATEMENT
                                9 | 54 | 7 (15) |
00:00:01
| 1 | HASH UNIQUE
                                9 | 54 | 7 (15) |
00:00:01
| 2 |
                           54 |
       VIEW
                                9 |
                                             6 (0)|
00:00:01
   3 |
        UNION-ALL
                    * 4
       TABLE ACCESS FULL | EMP | 3 | 57 |
                                              3 (0) [
00:00:01
|* 5 | TABLE ACCESS FULL | EMP | 6 | 114 | 3 (0) |
00:00:01
```

Predicate Information (identified by operation id):

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```
.....
  4 - filter("DEPTNO"=10)
  5 - filter("DEPTNO"=30)
Note
  - dynamic sampling used for this statement (level=2)
SOL> cl scr
SOL> ED
Wrote file afiedt.buf
 1 SELECT Job
 2 FROM Emp
 3 WHERE Deptno = 10
 4 INTERSECT
 5 SELECT Job
 6 FROM Emp
 7* WHERE Deptno = 30
SQL> /
JOB
CLERK
MANAGER
Execution Plan
Plan hash value: 3689394479
                     | Name | Rows | Bytes | Cost (%CPU) | Time
| Id | Operation
0 | SELECT STATEMENT | 3 | 171 | 8 (63) |
00:00:01
  1 | INTERSECTION
                    1
                          2 | SORT UNIQUE
                   3 |
                                    57 I
00:00:01
|* 3 | TABLE ACCESS FULL| EMP | 3 | 57 |
                                            3 (0)|
00:00:01
```

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```
4 | SORT UNIQUE | 6 | 114 | 4 (25)|
00:00:01
|* 5 | TABLE ACCESS FULL | EMP | 6 | 114 | 3 (0) |
00:00:01
Predicate Information (identified by operation id):
  3 - filter("DEPTNO"=10)
  5 - filter("DEPTNO"=30)
Note
  - dynamic sampling used for this statement (level=2)
SOL> ED
Wrote file afiedt.buf
 1 SELECT Job
 2 FROM Emp
 3 WHERE Deptno = 10
 4 MINUS
 5 SELECT Job
 6 FROM Emp
 7* WHERE Deptno = 30
SQL> /
JOB
PRESIDENT
Execution Plan
Plan hash value: 3686975449
                 _____
    | Operation | Name | Rows | Bytes | Cost (%CPU) | Time
0 | SELECT STATEMENT | 3 | 171 | 8 (63)|
00:00:01
```

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1 MINUS	I	I	1	I		I
 2 SORT UNIQUE 00:00:01	I	1	3	57	4	(25)
* 3 TABLE ACCESS F	'ULL EME	2	3	57	3	(0)
00:00:01 4 SORT UNIQUE	1	I	6	114	4	(25)
00:00:01 * 5 TABLE ACCESS F 00:00:01	'ULL EME	P	6	114	3	(0)1
				(
Predicate Information (id	lentified	d by o	peratior 	n id):		
				111		
<pre>3 - filter("DEPTNO"=10 5 - filter("DEPTNO"=30</pre>				1		
	,		.\ (
Note 				0,		
- dynamic sampling use	d for th	nis st	atement	(level=2)	
SQL> cl scr						
		\mathcal{N}	, i			
SQL> ED Wrote file afiedt.buf						
1 SELECT Job 2 FROM Emp						
3 WHERE Deptno = 10	(0)					
4 UNION 5 SELECT Job						
6 FROM Emp						
7 WHERE Deptno = 30 8 INTERSECT						
9 SELECT Job						
10 FROM Emp						
11* WHERE Deptno = 20 SQL> /						
JOB 						
CLERK						
MANAGER						

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..... Execution Plan _____ Plan hash value: 3563617024 | Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time | 0 | SELECT STATEMENT | 5 | 266 | 12 00:00:01 | 1 | INTERSECTION | | | 2 | SORT UNIQUE | | 5 | 266 I (75)100:00:01 | 3 | UNION-ALL | | |* 4 | TABLE ACCESS FULL| EMP | 3 (0)| 00:00:01 | |* 5 | TABLE ACCESS FULL| EMP | 3 (0)| 114 I 00:00:01 | | 6 | SORT UNIQUE | 95 | 4 (25) 00:00:01 |* 7 | TABLE ACCESS FULL | EMP 95 | 3 (0) | 00:00:01 Predicate Information (identified by operation id): -----4 - filter("DEPTNO"=10) 5 - filter("DEPTNO"=30) 7 - filter("DEPTNO"=20) Note - dynamic sampling used for this statement (level=2) SQL> ED Wrote file afiedt.buf 1 SELECT Job 2 FROM Emp 3 WHERE Deptno = 10 4 UNION

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```
.....
 5
 6
     SELECT Job
 7
     FROM Emp
 8
     WHERE Deptno = 30
 9
     INTERSECT
 10
     SELECT Job
     FROM Emp
 11
12
     WHERE Deptno = 20
13*)
SOL> /
JOB
CLERK
MANAGER
PRESIDENT
Execution Plan
Plan hash value: 785578627
| Id | Operation
                         | Name | Rows | Bytes | Cost (%CPU) | Time
 0 | SELECT STATEMENT
                                    8 | 266 | 12 (75) |
00:00:01
   1 | SORT UNIQUE
                                        266 | 12 (75) |
00:00:01 |
   2 | UNION-ALL
         TABLE ACCESS FULL
l* 3 l
                         | EMP
                                    3 |
                                           57 I
                                                      (0)|
00:00:01
| 4 |
        INTERSECTION
                               5
          SORT UNIQUE
                                          114 |
                                                     (25)
00:00:01
1* 6
           TABLE ACCESS FULL | EMP |
                                    6 I
                                          114 |
                                                      (0)|
00:00:01 |
          SORT UNIQUE
                               5 |
                                           95 |
                                                     (25) |
   7 |
00:00:01 |
|* 8 |
                                    5 |
          TABLE ACCESS FULL | EMP |
                                          95 |
                                                     (0)
00:00:01
```

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..... Predicate Information (identified by operation id): 3 - filter("DEPTNO"=10) 6 - filter("DEPTNO"=30) 8 - filter("DEPTNO"=20) Note - dynamic sampling used for this statement (level=2) SQL> cl scr SQL> SELECT Deptno, SUM(Sal) SalSum 2 FROM Emp 3 GROUP BY Deptno; DEPTNO SALSUM 30 9400 20 10875 10 8750 Execution Plan Plan hash value: 4067220884 | Name | Rows | Bytes | Cost (%CPU) | Time | Id | Operation 0 | SELECT STATEMENT | 14 | 364 | 4 (25) | 00:00:01 HASH GROUP BY | 14 | 364 | 4 (25) | 00:00:01 TABLE ACCESS FULL | EMP | 14 | 364 | 3 (0) | 00:00:01

Note

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```
- dynamic sampling used for this statement (level=2)
SQL> SELECT SUM(Sal) OrgSal
 2 FROM Emp;
  ORGSAL
   29025
Execution Plan
Plan hash value: 2083865914
_____
| Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time
                                       13 | 3 (0) | 00:00:01
  0 | SELECT STATEMENT |
                                  1 | 13 |
  1 | SORT AGGREGATE |
                                14 | 182 | 3 (0) | 00:00:01
   2 | TABLE ACCESS FULL| EMP
Note
  - dynamic sampling used for this statement (level=2)
SOL> ED
Wrote file afiedt.buf
 1 SELECT Deptno, SUM(Sal) SalSum, OrgSal
 2 FROM Emp,
 3 (
   SELECT SUM(Sal) OrgSal
   FROM Emp
 5
 6
 7* GROUP BY Deptno, OrgSal
SOL> /
   DEPTNO SALSUM ORGSAL
```

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			•••••		••••		•••••	•••••		
10 20 30	8750 10875 9400	29025								
Execution Pl	an									
Plan hash value: 3003679369										
 Id Oper 	ation 	Name		Rows		Bytes	S	Cost (%CPU)	Time
 0 SELE 00:00:01	CT STATEMENT	I		14	I	546	1	7	(15)	
	H GROUP BY	I		14	1	546		7	(15)	
2 NE	STED LOOPS	I	Ţ	14	V	546		6	(0)	
00:00:01 3 V	IEW	I	1	1	I	13		3	(0)	
00:00:01	SORT AGGREGATE	120	V	1		13			1	
	TABLE ACCESS	FULL EMP	Ι	14		182		3	(0)	
00:00:01 6 T 00:00:01	ABLE ACCESS FU	ULL EMP		14		364		3	(0)	
Note dynamic	sampling used	l for this		tement	= -	(level=	=2)			
SQL> ED Wrote file a	fiedt.buf									
2 (al p	l) SalSum,								

Clarena Tarkara Calutiona But 14d

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SQL> /

DEPTNO	SALSUM	ORGSAL
30	9400	 29025
20	10875	29025
10	8750	29025

Execution Plan

Plan hash value: 2065184867

	Id		Operation	Name	Ro	ws	Ву	tes	Cost	(%CPU)	Time
 	- 0		SELECT STATEMENT			14	5	364	4	(25)	00:00:01
	1		SORT AGGREGATE	1	I	1		13		I	
	2	I	TABLE ACCESS FULI	L EMP	A	14		182	3	(0)	00:00:01
	3		HASH GROUP BY	1 %		14		364	4	(25)	00:00:01
	4		TABLE ACCESS FULI	LI EMP		14		364	3	(0)	00:00:01

Note

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

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Deptno, SUM(Sal) SalSum
- 2 FROM Emp
- 3 GROUP BY Deptno
- 4 UNION
- 5 SELECT SUM(Sal)
- 6* FROM Emp

SQL> /

SELECT Deptno, SUM(Sal) SalSum

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*

ERROR at line 1:

ORA-01789: query block has incorrect number of result columns

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Deptno, SUM(Sal) SalSum
- 2 FROM Emp
- 3 GROUP BY Deptno
- 4 UNION
- 5 SELECT NULL, SUM(Sal)
- 6* FROM Emp

SQL> /

SALSUM	DEPTNO
8750	10
10875	20
9400	30
29025	

Execution Plan

Plan hash value: 768573151

| Name | Rows | Bytes | Cost (%CPU) | Time 0 | SELECT STATEMENT 15 | 377 | 00:00:01 | 1 | SORT UNIQUE 15 I 377 | 9 (67)| 00:00:01 UNION-ALL 3 | HASH GROUP BY | 5 (40)| 14 | 364 | 00:00:01 4 | TABLE ACCESS FULL| EMP | 14 | 364 | (0) 00:00:01 | 5 I SORT AGGREGATE | 1 1 13 | (25)00:00:01

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6 | TABLE ACCESS FULL | EMP | 14 | 182 | 3 (0) | 00:00:01 Note - dynamic sampling used for this statement (level=2) SQL> SELECT Dname 2 FROM Dept 3 WHERE Deptno = 10 4 UNION 5 SELECT Ename, Job, Sal 6 FROM Emp 7 WHERE Deptno = 10;SELECT Dname ERROR at line 1: ORA-01789: query block has incorrect number of result columns SQL> ED Wrote file afiedt.buf 1 SELECT Dname, NULL Ename, NULL Job, NULL Sal 2 FROM Dept 3 WHERE Deptno = 10 4 UNION 5 SELECT NULL, Ename, Job, 6 FROM Emp 7* WHERE Deptno = 10 SOL> / ENAME DNAME JOB SAL ACCOUNTING CLARK KING MANAGER 2450 PRESIDENT 5000 MILLER CLERK 1300 Execution Plan Plan hash value: 2936292807

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```
.....
| Id | Operation
                               | Name
                                                | Rows | Bytes
| Cost (%CPU) | Time |
   0 | SELECT STATEMENT
   6 (84) | 00:00:01 |
   1 | SORT UNIQUE
   6 (84) | 00:00:01 |
   2 | UNION-ALL
  3 | TABLE ACCESS BY INDEX ROWID| DEPT
                                                            22
    1 (0) | 00:00:01 |
  4 |
        INDEX UNIQUE SCAN | DEPT_PRIMARY_KEY |
   1 (0) | 00:00:01 |
        TABLE ACCESS FULL
   5 |
                                                           117
                            | EMP
       (0) | 00:00:01 |
Predicate Information (identified by operation id):
  4 - access("DEPTNO"=10)
  5 - filter("DEPTNO"=10)
Note
____
  - dynamic sampling used for this statement (level=2)
SQL> ED
Wrote file afiedt.buf
 1 SELECT Dname, NULL Ename, NULL Job, NULL Sal
 2 FROM Dept
 3 WHERE Deptno = 10
 4 UNION
 5 SELECT NULL, Ename, Job, Sal
 6 FROM Emp
 7 WHERE Deptno = 10
   UNION
 9 SELECT NULL, NULL, NULL, SUM(Sal)
 10 FROM Emp
 11* WHERE Deptno = 10
SOL> /
```

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DNAME	ENAME	JOB	SAL
ACCOUNTING			
	CLARK	MANAGER	2450
	KING	PRESIDENT	5000
	MILLER	CLERK	1300
			8750

Execution Plan

Plan hash value: 1118198403

		Operation %CPU) Time	I	Name	I	Rows		Bytes
		SELECT STATEMENT	1	1191.		5		165
	10	(90) 00:00:01 SORT UNIQUE		6///		5		165
	10	(90) 00:00:01 UNION-ALL						
	3	TABLE ACCESS BY	INDEX ROWID	DEPT		1		22
*	4	(0) 00:00:01 INDEX UNIQUE SCA	AN	DEPT_PRIMARY	_KEY	1		
*	5	(0) 00:00:01 TABLE ACCESS FULI		EMP	1	3		117
	3 6	(0) 00:00:01 SORT AGGREGATE				1		26
 * 	4 7 3	(25) 00:00:01 TABLE ACCESS FUI (0) 00:00:01	LL	EMP	I	3		78

Predicate Information (identified by operation id):

4 - access("DEPTNO"=10)

5 - filter("DEPTNO"=10)

7 - filter("DEPTNO"=10)

Note

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

SQL> cl scr

SQL> SELECT Ename, Sal
 2 FROM Emp;

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

14 rows selected.

Execution Plan

Plan hash value: 3956160932

- Id Operation 	Name		Rows	1	Bytes	ı	Cost	(%CPU)	Time
-									
0 SELECT STATEMEN	IT		14		280		3	(0)	00:00:01
1 TABLE ACCESS I	FULL EMP		14		280	1	3	(0)	00:00:01
-									

Note

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

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..... SQL> SELECT SUM(Sal) FROM Emp; SUM(SAL) 29025 Execution Plan Plan hash value: 2083865914 | Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time 0 | SELECT STATEMENT | 3 (0) | 00:00:01 1 | SORT AGGREGATE | 14 | 182 | 2 | TABLE ACCESS FULL | EMP | 3 (0) | 00:00:01 Note - dynamic sampling used for this statement (level=2) SQL> ED Wrote file afiedt.buf 1 SELECT Ename, Sal 2 FROM Emp 3 UNION 4 SELECT NULL, SUM(Sal) 5* FROM Emp SQL> / ENAME SAL ADAMS 1100 1600 ALLEN BLAKE 2850 CLARK 2450

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MILLER 1300 SCOTT 3000 SMITH 800 TURNER 1500 WARD 1250 29025 15 rows selected. Execution Plan						•••••		•••••			
Execution Plan	JAMES JONES KING MARTIN MILLER SCOTT SMITH	950 2975 5000 1250 1300 3000 800 1500 1250									
Plan hash value: 1936257533 Id Operation	15 rows selecte	ed.							CIF		
Id Operation	Execution Plan								6.		
	Plan hash value	: 1936257533									
					1						
00:00:01 1 SORT UNIQUE 15 293 8 (63) 00:00:01 2 UNION-ALL 3 TABLE ACCESS FULL EMP 14 280 3 (0) 00:00:01 4 SORT AGGREGATE 1 13 4 (25) 00:00:01 5 TABLE ACCESS FULL EMP 14 182 3 (0) 00:00:01 Note dynamic sampling used for this statement (level=2) SQL> cl scr	 Id Operati 	.on	Name	Ro	ows	1	Bytes		Cost (%CPU)	Time
1 SORT UNIQUE 15 293 8 (63) 00:00:01		STATEMENT	,2		15	ı	293	I	8	(63)	
2 UNION-ALL	1 SORT U	UNIQUE		ı	15	I	293		8	(63)	
00:00:01		I-ALL		1				I		1	
4 SORT AGGREGATE		E ACCESS FULL	EMP		14	1	280		3	(0)	
5 TABLE ACCESS FULL EMP 14 182 3 (0) 00:00:01 Note dynamic sampling used for this statement (level=2) SQL> cl scr	4 SORT	AGGREGATE			1	I	13	1	4	(25)	
dynamic sampling used for this statement (level=2) SQL> cl scr	5 TAE	BLE ACCESS FULL	EMP	I	14	I	182		3	(0)	
SQL> SELECT Deptno, Job, SUM(Sal) SalSum		umpling used for	this	stat	temer	nt	(level	L=2	?)		

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- 2 FROM Emp
- 3 GROUP BY Deptno, Job
- 4 ORDER BY Deptno;

DEPTNO	JOB	SALSUM
10	CLERK	1300
10	MANAGER	2450
10	PRESIDENT	5000
20	ANALYST	6000
20	CLERK	1900
20	MANAGER	2975
30	CLERK	950
30	MANAGER	2850
30	SALESMAN	5600

9 rows selected.

Execution Plan

Plan hash value: 15469362

 I	d	Operation	Name	=	Rows		Bytes		Cost	(%CPU)	Time
 	0	SELECT STATEMENT		1	14		448		4	(25)	00:00:01
	1	SORT GROUP BY	I		14		448		4	(25)	00:00:01
	2	TABLE ACCESS FULL	EMP	I	14		448		3	(0)	00:00:01

Note

___-

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

SQL> SELECT Deptno, SUM(Sal) SalSum

- 2 FROM Emp
- 3 GROUP BY Deptno;

DEPTNO SALSUM

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30 9400 20 10875 10 8750								
Execution Plan								
Plan hash value: 4067220884	 l							51
 Id	Name	R	.OWS		Bytes (Cost (%CPU)	Time
 0 SELECT STATEMENT		I	14	1	364	4	(25)	00:00:01
 1 HASH GROUP BY			14		364	4	(25)	00:00:01
 2 TABLE ACCESS FULI 	∟ EMP	1	14	1	364	3	(0)	00:00:01
Note dynamic sampling used	for th	is s	tatem	men	t (level=	=2)		
SQL> ED Wrote file afiedt.buf								
1 SELECT Deptno, Job, SU 2 FROM Emp 3 GROUP BY Deptno, Job 4 UNION 5 SELECT Deptno, NULL, S 6 FROM Emp 7* GROUP BY Deptno SQL> /			Sum					
DEPTNO JOB SA	ALSUM							
10 CLERK 10 MANAGER 10 PRESIDENT 10	1300 2450 5000 8750							

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	·······				, 					
	20 ANALYST 20 CLERK 20 MANAGER 20 30 CLERK 30 MANAGER 30 SALESMAN 30	6000 1900 2975 10875 950 2850 5600) 5 5))							
12 rows	selected.								5) /
Executio	on Plan						c			
Plan has	sh value: 9619	49858)`		
 Id 	Operation	 I	Name	 Rows	5	Bytes			 %CPU)	Time
				C						
	SELECT STATEM	ENT		1 2	28	812	1	LO	(70)	
00:00:01	- SORT UNIQUE	1		1 2	28	812	1	LO	(70)	
00:00:01	UNION-ALL		(5)		1		1		I	
 3	HASH GROUP	BY		1 1	4 1	448	I	5	(40)	
00:00:01	_		EMD							
00:00:01	TABLE ACC	ESS FULL	EMP	1	L4	448	I	3	(0)	
5 00:00:01	HASH GROUP	BY		1	14	364		5	(40)	
	TABLE ACC	ESS FULL	EMP	1	4	364		3	(0)	
SQL> ED	namic sampling	used for	this	stater	nent	(level	=2)			

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1 SELECT Deptno, Job, SUM(Sal) SalSum

2 FROM Emp 3 GROUP BY Deptno, Job 4 UNION 5 SELECT Deptno, NULL, SUM(Sal) 6 FROM Emp 7 GROUP BY Deptno 8 UNION 9 SELECT NULL, NULL, SUM(Sal) 10* FROM Emp SOL> / DEPTNO JOB -----

 10 CLERK
 1300

 10 MANAGER
 2450

 10 PRESIDENT
 5000

 8750 10 6000 20 ANALYST 20 CLERK 1900 20 MANAGER 2975 10875 20 30 CLERK 950 30 MANAGER 2850 30 SALESMAN 5600 30 9400 29025 13 rows selected. Execution Plan Plan hash value: 3412076862 ______ | Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time 0 | SELECT STATEMENT | 29 | 825 | 14 (79) | 00:00:01 | | 1 | SORT UNIQUE | 29 | 825 | 14 (79)| 00:00:01 | 2 | UNION-ALL | | |

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3	HASH GROUP BY	I	14	448	5 (40)
00:00:01 4 00:00:01	TABLE ACCESS FULL EMP	I	14	448	3 (0)
5 00:00:01	HASH GROUP BY	I	14	364	5 (40)
6 00:00:01	TABLE ACCESS FULL EMP		14	364	3 (0)
7 00:00:01	SORT AGGREGATE	I	1	13	4 (25)
8 00:00:01	TABLE ACCESS FULL EMP	I	14	182	3 (0)
					

Note

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

SQL> SELECT Deptno, SUM(Sal)

- 2 FROM Emp
- 3 GROUP BY Deptno;

SUM(SAL)	DEPTNO
9400	30
10875	20
8750	10

Plan hash value: 4067220884

	Name	 :	Rows		Bytes		Cost	(%CPU)	Time
0 SELECT STATEMENT	 I	·	14		364			·	00:00:01
1 HASH GROUP BY	I		14		364		4	(25)	00:00:01
2 TABLE ACCESS FUL	L EMP		14		364		3	3 (0)	00:00:01

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..... Note - dynamic sampling used for this statement (level=2) SQL> ED Wrote file afiedt.buf 1 SELECT Job, SUM(Sal) 2 FROM Emp 3* GROUP BY Job SOL> / JOB SUM(SAL) SALESMAN 5600 CLERK 4150 PRESIDENT 5000 8275 MANAGER ANALYST 6000 Execution Plan Plan hash value: 4067220884 | Name | Rows | Bytes | Cost (%CPU) | Time 0 | SELECT STATEMENT 14 | 266 | 4 (25) | 00:00:01 1 | HASH GROUP BY | 14 | 266 | 4 (25) | 00:00:01 TABLE ACCESS FULL | EMP | 14 | 266 | 3 (0) | 00:00:01 Note - dynamic sampling used for this statement (level=2)

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SQL> ED

Wrote file afiedt.buf

- 1 SELECT Deptno, NULL Job, SUM(Sal)
- 2 FROM Emp
- 3 GROUP BY Deptno
- 4 UNION
- 5 SELECT NULL, Job, SUM(Sal)
- 6 FROM Emp
- 7* GROUP BY Job

SQL> /

DEPTNO	JOB	SUM(SAL)
10		8750
20		10875
30		9400
	ANALYST	6000
	CLERK	4150
	MANAGER	8275
	PRESIDENT	5000
	SALESMAN	5600

8 rows selected.

Execution Plan

Plan hash value: 961949858

								_
 Id	Name	I	Rows	I	Bytes	l	Cost (%CPU) Time	
0 SELECT STATEMENT	1		28	1	630		10 (70)	
00:00:01								
1 SORT UNIQUE 00:00:01			28		630		10 (70)	
2 UNION-ALL	1			1			I	
3 HASH GROUP BY	1		14	I	364		5 (40)	
00:00:01 4 TABLE ACCESS FUI 00:00:01	LL EMP	I	14	1	364		3 (0)	

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5	HASH GROUP BY		1	14	266	5	(40)
00:00:01 6 00:00:01	TABLE ACCESS	FULL EMP	l	14	266	3	(0)

Note

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

SQL> SPOOL OFF

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