```
.....
SQL> cl scr
SQL> COLUMN Departments FORMAT A15
SQL> COLUMN SUM(Sal) FORMAT 99999
SOL> SELECT
 2 DECODE
  3
    (
    GROUPING (Deptno),
  5
    1, 'All Departments',
  6
    Deptno
 7
    ) Departments,
 8 SUM(Sal)
 9 FROM Emp
 10 GROUP BY ROLLUP (Deptno);
DEPARTMENTS
           SUM(SAL)
10
                  8750
20
                 10875
30
                  9400
All Departments
                 29025
SQL> ED
Wrote file afiedt.buf
  1 SELECT
 2
   DECODE
  3
  4
   GROUPING (Deptno),
  5
   1, 'All Departments',
  6
   'Department '||Deptno||' Investment'
  7
    ) Departments,
 8 SUM(Sal)
 9 FROM Emp
 10* GROUP BY ROLLUP (Deptno)
SQL> COLUMN Departments FORMAT A28
SQL> R
 1 SELECT
  2 DECODE
  3
    4
    GROUPING (Deptno),
  5
    1, 'All Departments',
     'Department '||Deptno||' Investment'
  6
  7
    ) Departments,
 8 SUM(Sal)
  9 FROM Emp
 10* GROUP BY ROLLUP (Deptno)
```

-----

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.....

```
DEPARTMENTS
                             SUM (SAL)
Department 10 Investment
Department 20 Investment
                               10875
Department 30 Investment
                                9400
All Departments
                                29025
SQL> cl scr
SQL> COL Designations FOR A37
SOL> SELECT
  2 DECODE
  3
    (
  4
    GROUPING (Job),
  5 1, 'All Designation Investments',
    'Designation '||Job||'''s Investment
  6
  7
    ) Designations,
  8 SUM(Sal)
  9 FROM Emp
 10 GROUP BY ROLLUP (Job);
DESIGNATIONS
                                      SUM (SAL)
Designation ANALYST's Investment
                                          6000
Designation CLERK's Investment
                                          4150
Designation MANAGER's Investment
                                          8275
Designation PRESIDENT's Investment
                                         5000
Designation SALESMAN's Investment
                                         5600
All Designation Investments
                                         29025
6 rows selected.
SOL> cl scr
SQL> COL Designations FOR A15
SQL> SELECT
  2 DECODE
  3
    GROUPING (Deptno),
  5
    1, 'All Departments',
  6
    Deptno
  7
    ) Departments,
  8 DECODE
  9
 10
    GROUPING (Job),
     1, 'All Designations',
```

-----

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```
12  Job
13  ) Designations,
14  SUM(Sal) SalSum
15  FROM Emp
16  GROUP BY ROLLUP(Deptno, Job);
```

DEPARTMENTS	DESIGNATIONS	SALSUM
10 10 10 10	CLERK MANAGER PRESIDENT All Designation s	1300 2450 5000 8750
20 20 20 20	CLERK ANALYST MANAGER All Designation s	1900 6000 2975 10875
30 30 30 30	CLERK MANAGER SALESMAN All Designation s	950 2850 5600 9400
DEPARTMENTS	DESIGNATIONS	SALSUM
All Departments	All Designation	29025

13 rows selected.

10

```
SQL> COL Designations FOR A20
SQL> R
  1 SELECT
  2
   DECODE
  3
     GROUPING (Deptno),
  5
    1, 'All Departments',
  6
    Deptno
  7
    ) Departments,
  8
   DECODE
  9
```

GROUPING (Job),

-----

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..... 11 1, 'All Designations', 12 Job 13 ) Designations, 14 SUM(Sal) SalSum 15 FROM Emp 16\* GROUP BY ROLLUP(Deptno, Job) DEPARTMENTS DESIGNATIONS SALSUM 10 CLERK 1300 10 MANAGER 2450 10 PRESIDENT 5000 10 All Designations 8750 20 CLERK 1900 ANALYST 6000 20 20 MANAGER 2975 All Designations 20 10875 30 CLERK 950 30 MANAGER 2850 30 SALESMAN 5600 30 All Designations 9400 All Departments All Designations 29025 13 rows selected. SQL> cl scr SOL> SELECT 2 DECODE 3 ( 4 GROUPING (Deptno) 5 1 , 'All Departments', Deptno 6 7 ) Departments, 8 DECODE 9 10 GROUPING (Job), 11 1, 'All Designations', 12 Job 13 ) Designations, 14 SUM(Sal) 15 FROM Emp 16 GROUP BY CUBE (Deptno, Job) 17 ORDER BY Deptno; DEPARTMENTS DESIGNATIONS SUM(SAL)

\_\_\_\_\_

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10	CLERK	1300	
10	MANAGER	2450	
10	PRESIDENT	5000	
10	All Designations	8750	
20	ANALYST	6000	
20	CLERK	1900	
20	MANAGER	2975	
20	All Designations	10875	
30	CLERK	950	
30	MANAGER	2850	7
30	SALESMAN	5600	
30	All Designations	9400	
All Departments	ANALYST	6000	
All Departments	CLERK	4150	
All Departments	MANAGER	8275	
All Departments	PRESIDENT	5000	
All Departments	SALESMAN	5600	
_			
DEPARTMENTS	DESIGNATIONS	SUM(SAL)	
All Departments	All Designations	29025	
18 rows selected.	16.		
SQL> cl scr	. 20		
SOL> SELECT Deptno. SUM(Sal)	SalSum		

SQL> SELECT Deptno, SUM(Sal) SalSum

- 2 FROM Emp
- 3 GROUP BY Deptno;

SALSUM	DEPTNO	
9400	30	
10875	20	
8750	10	

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Job, SUM(Sal) SalSum
- 2 FROM Emp
- 3\* GROUP BY Job

SQL> /

JOB	SALSUM
SALESMAN	5600

\_\_\_\_\_\_

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..... CLERK 4150 PRESIDENT 5000 MANAGER 8275 ANALYST 6000 SOL> ED Wrote file afiedt.buf 1 SELECT Deptno, NULL Job, SUM(Sal) SalSum 2 FROM Emp 3 GROUP BY Deptno 4 UNION 5 SELECT NULL, Job, SUM(Sal) SalSum 6 FROM Emp 7\* GROUP BY Job SOL> SET AUTOTRACE ON EXPLAIN SQL> R 1 SELECT Deptno, NULL Job, SUM(Sal) SalSum 2 FROM Emp 3 GROUP BY Deptno 4 UNION 5 SELECT NULL, Job, SUM(Sal) SalSum 6 FROM Emp 7\* GROUP BY Job DEPTNO JOB SALSUM \_\_\_\_\_ 8750 10 20 10875 30 9400 6000 ANALYST 4150 CLERK 8275 MANAGER 5000 PRESIDENT SALESMAN 5600 8 rows selected. Execution Plan \_\_\_\_\_\_ Plan hash value: 961949858 | Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time

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 •••

0   SELECT STATEMENT		28	630	10 (70)
00:00:01				
1   SORT UNIQUE		28	630	10 (70)
00:00:01				
2   UNION-ALL			1	
				(-)
3   HASH GROUP BY		14	364	5 (40)
00:00:01				
4   TABLE ACCESS	FULL  EMP	14	364	3 (0)
00:00:01				
5   HASH GROUP BY		14	266	5 (40)
00:00:01				
6   TABLE ACCESS	FULL  EMP	14	266	3 (0)
00:00:01				

------

\_\_\_\_

# Note

\_\_\_\_

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

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Deptno, Job, SUM(Sal) SalSum
- 2 FROM Emp
- 3\* GROUP BY GROUPING SETS(Deptno, Job) SQL> /

DEPTNO	JOB	SALSUM
30		9400
20		10875
10		8750
	SALESMAN	5600
	CLERK	4150
	PRESIDENT	5000
	MANAGER	8275
	ANALYST	6000

8 rows selected.

Execution Plan

-----

\_\_\_\_\_

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Plan hash value: 4033679023 | Id | Operation Name Bytes | Cost (%CPU) | Time | | 0 | SELECT STATEMENT 448 | 11 (19)| 00:00:01 | | 1 | TEMP TABLE TRANSFORMATION | | LOAD AS SELECT | SYS\_TEMP\_0FD9D6602\_34E3BB | 2 | LOAD AS SELECT | SYS\_TEMP\_0FD9D6602\_34E3BB | 1 | TABLE ACCESS FULL 6 | 26 | 2 (0)| 00:00:01 | | SYS\_TEMP\_0FD9D6603\_34E3BB | 7 | LOAD AS SELECT | 8 | HASH GROUP BY 19 | 3 (34)| 00:00:01 | SYS\_TEMP\_0FD9D6602\_34E3BB | 1 | | 1 | 1 | Note - dynamic sampling used for this statement (level=2) SQL> cl scr SQL> COL Deptno FOR 99 SQL> COL MGR FOR 9999 SQL> COL Year FOR A4 SQL> COL Week FOR A4 SQL> COL Quarter FOR A7 SOL> COL Months FOR A10

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```
SQL> COL Day FOR A10
SQL> COL SUM(Sal) FOR 999999
SOL> SELECT
 2 Deptno,
  3 Job,
  4 MGR,
  5 TO CHAR (HireDate, 'YYYY') Year,
  6 TO CHAR (HireDate, 'Q') Quarter,
  7 TO CHAR (HireDate, 'Month') Months,
    TO_CHAR(HireDate, 'W') Week,
 9 TO CHAR(HireDate, 'Day') Day,
10 SUM(Sal)
11 FROM Emp
12 GROUP BY
13 GROUPING SETS
14 (
15 Deptno,
16 Job,
17 MGR,
18 TO CHAR (HireDate, 'YYYY'),
19 TO CHAR (HireDate, 'Q'),
20 TO CHAR (HireDate, 'Month'),
21 TO CHAR (HireDate, 'W'),
22 TO CHAR (HireDate, 'Day')
23 );
                                               WEEK DAY SUM(SAL)
DEPTNO JOB
                   MGR YEAR QUARTER MONTHS
    30
                                                                    9400
    20
                                                                   10875
   10
                                                                    8750
                                                                    5600
      SALESMAN
       CLERK
                                                                    4150
       PRESIDENT
                                                                    5000
       MANAGER
                                                                    8275
       ANALYST
                                                                    6000
                                                                    5000
                  7839
                                                                    8275
                  7782
                                                                    1300
                  7698
                                                                    6550
                  7902
                                                                    800
                  7566
                                                                    6000
                  7788
                                                                    1100
                       1980
                                                                     800
                       1983
                                                                    1100
DEPTNO JOB
                   MGR YEAR QUARTER MONTHS
                                               WEEK DAY
```

\_\_\_\_\_

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1982 1981 1 3 4 2		September December January June November April February May	1 3 2		430 2282 525 275 1275 827 275 775 240 245 500 297 285 285 977 740 805	5 0 0 0 0 5 0 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 5 0 0 0 0 5 0 0 0 0 5 0 0 0 0 5 0 0 0 0 5 0 0 0 0 5 0 0 0 0 5 0 0 0 0 0 5 0
DEPTNO JOB MGR YEAR QU	JARTER	MONTHS	WEEK	DAY	SUM(SAL	)
42 rows selected.  Execution Plan		16,	4	Sunday Friday Thursday Monday Wednesday Tuesday Saturday	380 125 445 992 125 190 895 130	0 0 5 0 0
Plan hash value: 2243564975						
Id   Operation Bytes   Cost (%CPU)  Time		Name			Rows	 
0   SELECT STATEMENT 1302   29 (28)   00:00:01     1   TEMP TABLE TRANSFORMA					14	I I

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2	LOAD AS SELECT		SYS_TEMP_0FD9D6606_34E3BB	
	TABLE ACCESS FULL 3 (0)   00:00:01	1	EMP   14	
	LOAD AS SELECT	1	SYS_TEMP_OFD9D6607_34E3BB	
5	HASH GROUP BY 3 (34)   00:00:01	1	1	
26     6   26	TABLE ACCESS FULL	1	SYS_TEMP_0FD9D6606_34E3BB   1	V
- '	2 (0)   00:00:01   LOAD AS SELECT	1	SYS_TEMP_OFD9D6607_34E3BB	
8		1		
19	3 (34)   00:00:01   TABLE ACCESS FULL	1	SYS_TEMP_0FD9D6606_34E3BB   1	
19	2 (0)   00:00:01   LOAD AS SELECT	1	SYS_TEMP_0FD9D6607_34E3BB	
	HASH GROUP BY	1	1	
12	3 (34)   00:00:01   TABLE ACCESS FULL	1	SYS_TEMP_0FD9D6606_34E3BB   1	
26	2 (0)   00:00:01   LOAD AS SELECT	Ī	SYS_TEMP_0FD9D6607_34E3BB	
14	HASH GROUP BY	1	1	
17	TABLE ACCESS FULL	5	SYS_TEMP_0FD9D6606_34E3BB   1	
17     16	2 (0)   00:00:01   LOAD AS SELECT	1	SYS_TEMP_0FD9D6607_34E3BB	
17	HASH GROUP BY	1	1	
15	TABLE ACCESS FULL	1	SYS_TEMP_0FD9D6606_34E3BB   1	
15	2 (0)   00:00:01   LOAD AS SELECT	1	SYS_TEMP_0FD9D6607_34E3BB	
20	HASH GROUP BY	1	1	
33     21	3 (34)   00:00:01   TABLE ACCESS FULL	1	SYS_TEMP_0FD9D6606_34E3BB   1	
33	2 (0)  00:00:01   LOAD AS SELECT	1	SYS_TEMP_0FD9D6607_34E3BB	
23	 HASH GROUP BY	1	1	I
15	3 (34)   00:00:01   TABLE ACCESS FULL	1	SYS_TEMP_0FD9D6606_34E3BB   1	I
15	2 (0)   00:00:01			

\_\_\_\_\_\_

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Spool the Fol Oracle State	uents frameu by Wil. Satilish Tellahki
25   LOAD AS SELECT	SYS_TEMP_0FD9D6607_34E3BB
Note dynamic sampling used for the SQL> cl scr	nis statement (level=2)
SQL> SET AUTOTRACE OFF EXPLAIN SQL> cl scr  SQL> SELECT 2 Ename, 3 Deptno, 4 CASE Deptno 5 WHEN 10 THEN 'ACCOUNTING' 6 WHEN 20 THEN 'RESEARCH' 7 WHEN 30 THEN 'SALES' 8 WHEN 40 THEN 'OPERATIONS' 9 ELSE 'NOT FOUND' 10 END Dname 11 FROM Emp;	
ENAME DEPTNO DNAME  KING 10 ACCOUNTING BLAKE 30 SALES CLARK 10 ACCOUNTING JONES 20 RESEARCH MARTIN 30 SALES ALLEN 30 SALES TURNER 30 SALES JAMES 30 SALES WARD 30 SALES FORD 20 RESEARCH SMITH 20 RESEARCH	

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```
SCOTT 20 RESEARCH
ADAMS 20 RESEARCH
MILLER 10 ACCOUNTING
```

#### 14 rows selected.

```
SQL> SELECT
  2 Ename,
  3 Deptno,
  4 DECODE ( Deptno
        , 10 , 'ACCOUNTING'
  5
  6
        , 20 , 'RESEARCH'
        , 30 , 'SALES'
  7
        , 40 , 'OPERATIONS'
  8
       , 'NOT FOUND'
  9
 10 ) Dname
 11 FROM Emp;
```

ENAME	DEPTNO	DNAME
KING	10	ACCOUNTING
BLAKE	30	SALES
CLARK	10	ACCOUNTING
JONES	20	RESEARCH
MARTIN	30	SALES
ALLEN	30	SALES
TURNER	30	SALES
JAMES	30	SALES
WARD	30	SALES
FORD	20	RESEARCH
SMITH	20	RESEARCH
SCOTT	20	RESEARCH
ADAMS	20	RESEARCH
MILLER	10	ACCOUNTING

#### 14 rows selected.

```
SQL> cl scr

SQL> SELECT
2 Ename,
3 Deptno,
4 CASE
5 WHEN Deptno = 10 THEN 'ACCOUNTING'
6 WHEN Deptno = 20 THEN 'RESEARCH'
7 WHEN Deptno = 30 THEN 'SALES'
8 WHEN Deptno = 40 THEN 'OPERATIONS'
```

------

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- 9 ELSE 'Not Specified'
- 10 END Dname
- 11 FROM Emp;

ENAME	DEPTNO	DNAME
KING	10	ACCOUNTING
BLAKE	30	SALES
CLARK	10	ACCOUNTING
JONES	20	RESEARCH
MARTIN	30	SALES
ALLEN	30	SALES
TURNER	30	SALES
JAMES	30	SALES
WARD	30	SALES
FORD	20	RESEARCH
SMITH	20	RESEARCH
SCOTT	20	RESEARCH
ADAMS	20	RESEARCH
MILLER	10	ACCOUNTING

14 rows selected.

SQL> cl scr

SOL> SELECT

- 2 Ename,
  - 3 Sal,
  - 4 CASE
  - 5 WHEN Sal >= 800 AND Sal <= 2000 THEN 'LOWEST PAY'
  - 6 WHEN Sal >= 2001 AND Sal <= 4000 THEN 'MODERATE PAY'
  - 7 ELSE 'HIGH PAY'
  - 8 END Remarks
  - FROM Emp;

ENAME	SAL	REMARKS
	<b></b>	
KING	5000	HIGH PAY
BLAKE	2850	MODERATE PAY
CLARK	2450	MODERATE PAY
JONES	2975	MODERATE PAY
MARTIN	1250	LOWEST PAY
ALLEN	1600	LOWEST PAY
TURNER	1500	LOWEST PAY
JAMES	950	LOWEST PAY
WARD	1250	LOWEST PAY
FORD	3000	MODERATE PAY

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```
SMITH 800 LOWEST PAY
SCOTT 3000 MODERATE PAY
ADAMS 1100 LOWEST PAY
MILLER 1300 LOWEST PAY
```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

- 1 SELECT
- 2 Ename,
- 3 Sal,
- 4 CASE
- 5 WHEN Sal BETWEEN 800 AND 2000 THEN 'LOWEST PAY'
- 6 WHEN Sal BETWEEN 2001 AND 4000 THEN 'MODERATE PAY'
- 7 ELSE 'HIGH PAY'
- 8 END Remarks
- 9\* FROM Emp

SOL> /

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

14 rows selected.

SQL> cl scr

SQL> CONN SYSTEM

Connected.

SQL> GRANT QUERY REWRITE

2 TO SCOTT;

\_\_\_\_\_\_

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Grant succeeded.

SQL> GRANT

- 2 CREATE MATERIALIZED VIEW
- 3 TO SCOTT;

Grant succeeded.

SQL> GRANT ALTER SESSION TO SCOTT;

Grant succeeded.

SQL> CONN SCOTT/tiger

Connected.

SQL> cl scr

SQL> ALTER SESSION

2 SET QUERY\_REWRITE\_ENABLED = TRUE;

Session altered.

SQL> cl scr

SQL> SET AUTOTRACE ON EXPLAIN

SQL> cl scr

SQL> SELECT Deptno , Job, SUM(Sal)

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

DEPTNO	JOB	SUM(SAL)
		<del></del>
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

\_\_\_\_\_\_

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Plan hash value: 15469362	
   Id   Operation   Name   Rows   Bytes   Cost (%CPU)  T 	ime
   0   SELECT STATEMENT	0:00:01
1   SORT GROUP BY     14   448   4 (25)   0	0:00:01
2   TABLE ACCESS FULL  EMP   14   448   3 (0)   0	0:00:01
<u></u>	
Note dynamic sampling used for this statement (level=2)	
SQL> SQL> CREATE MATERIALIZED VIEW Emp_Sum  2 ENABLE QUERY REWRITE  3 AS  4 SELECT Deptno , Job, SUM(Sal)  5 FROM Emp  6 GROUP BY Deptno, Job  7 ORDER BY Deptno;	
Materialized view created.	
SQL> DESC Emp_Sum Name Type	Null?
DEPTNO NULL NUMBER(2) JOB VARCHAR2(9) SUM(SAL) NUMBER  SQL> SELECT * FROM Emp_Sum;	NOT

-----

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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	
10 MANAGER 2450 10 PRESIDENT 5000 20 ANALYST 6000 20 CLERK 1900 20 MANAGER 2975 30 CLERK 950 30 MANAGER 2850	
10 PRESIDENT 5000 20 ANALYST 6000 20 CLERK 1900 20 MANAGER 2975 30 CLERK 950 30 MANAGER 2850	
20 ANALYST 6000 20 CLERK 1900 20 MANAGER 2975 30 CLERK 950 30 MANAGER 2850	
20 CLERK 1900 20 MANAGER 2975 30 CLERK 950 30 MANAGER 2850	
30 CLERK 950 30 MANAGER 2850	
30 MANAGER 2850	
30 SALESMAN 5600	
9 rows selected.	
y ions selected.	
Execution Plan	
Plan hash value: 2108572782	
Id   Operation   Name   Rows   Bytes   Cost (%CPU)	
Time	
0   SELECT STATEMENT   9   288   3 (0)	
00:00:01	
1   MAT_VIEW ACCESS FULL  EMP_SUM   9   288   3 (0)	
00:00:01	
Note	
- dynamic sampling used for this statement (level=2)	
SQL> SELECT Deptno , Job, SUM(Sal)	
2 FROM Emp	
3 GROUP BY Deptno, Job	
4 ORDER BY Deptno;	
DEPTNO JOB SUM(SAL)	
10 CLERK 1300	
10 CLERK 1300 10 MANAGER 2450	
10 PRESIDENT 5000	
20 ANALYST 6000	

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20 CLERK 20 MANAGER 30 CLERK	1900 2975 950 2850				
30 MANAGER 30 SALESMAN					
9 rows selected.				5	
Execution Plan				(6)	) \
Plan hash value: 825	659509		.6		
Id   Operation (%CPU)  Time		Name	Rows	Bytes   Co	st
0   SELECT STATE	MENT	1//8	9	288	4
(25)   00:00:01     1   SORT ORDER (25)   00:00:01	ВҮ	16/11	9	288	4
2   MAT_VIEW R (0)   00:00:01	EWRITE ACCESS F	ULL  EMP_SUM	1   9	288	3
Note dynamic samplin	g used for this	statement (	(level=2)		
SQL> ED Wrote file afiedt.bu	f				
1 SELECT Deptno, 2 FROM Emp 3 GROUP BY Deptno 4* ORDER BY Deptno SQL> /					
DEPTNO SUM(SAL)					
10 8750 20 10875 30 9400					

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			•••••
Execution Plan			
Plan hash value: 2214371112			
Id	Name	Rows   Bytes   C	Cost
0   SELECT STATEMENT (25)   00:00:01     1   SORT GROUP BY (25)   00:00:01     2   MAT_VIEW REWRITE ACCESS (0)   00:00:01	    FULL  EMP_SU	9   234     9   234   M   9   234	4 4 3
Note dynamic sampling used for thi	s statement	(level=2)	
SQL> ED Wrote file afiedt.buf  1 SELECT Job, SUM(Sal)	3 Statement	(1eve1-2)	
2 FROM Emp 3* GROUP BY Job SQL> /			
JOB SUM(SAL)			
CLERK 4150 SALESMAN 5600 PRESIDENT 5000 MANAGER 8275 ANALYST 6000			
Execution Plan			
Plan hash value: 2751693713			

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		•••••		• • • • •		
Id   Operation (%CPU)  Time	Name	1	Rows		Bytes	Cost
		. – – –				
0   SELECT STATEMENT (25)   00:00:01	1	I	9		171	4
1   HASH GROUP BY (25)   00:00:01	I	-	9	I	171	4
2   MAT_VIEW REWRITE ACCESS FULI (0)  00:00:01	L  EMP_SUM	I	9		171	3
			C			
Note						
dynamic sampling used for this st	tatement (	lev	el=2)			
SQL> ED			6.			
Wrote file afiedt.buf	10					
1 SELECT SUM(Sal) 2* FROM Emp 3 /	16/1	<b>)</b>				
SUM(SAL)						
29025						
Execution Plan					_	
Plan hash value: 4050022887						
Id   Operation (%CPU)  Time	Name	1	Rows		Bytes	Cost
0   SELECT STATEMENT (0)   00:00:01	I	1	1		13	3
1   SORT AGGREGATE	I	I	1		13	
2   MAT_VIEW REWRITE ACCESS FULI	L  EMP_SUM	I	9		117	3

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.....

# Note - dynamic sampling used for this statement (level=2) SOL> ED Wrote file afiedt.buf 1 SELECT Deptno, SUM(Sal) 2 FROM Emp 3 GROUP BY ROLLUP(Deptno) 4\* ORDER BY Deptno SQL> / DEPTNO SUM(SAL) 10 8750 20 10875 30 9400 29025 Execution Plan Plan hash value: 2868327837 | Id | Operation | Rows | Bytes | Cost Name (%CPU) | Time | | 0 | SELECT STATEMENT 9 | 234 | 4 (25) | 00:00:01 | | 1 | SORT GROUP BY ROLLUP 9 | 234 | (25) | 00:00:01 | 2 | MAT VIEW REWRITE ACCESS FULL | EMP SUM | 9 | 234 | (0) | 00:00:01 |

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### Note

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

SOL> ED

Wrote file afiedt.buf

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```
1 SELECT Job, SUM(Sal)
```

3\* GROUP BY ROLLUP (Job)

SQL> /

JOB	SUM(SAL)
ANALYST	6000
CLERK	4150
MANAGER	8275
PRESIDENT	5000
SALESMAN	5600
	29025

6 rows selected.

Execution Plan

-----

Plan hash value: 2868327837

	Name	Rows	3	B	ytes	Cos	t 
0   SELECT STATEMENT (25)   00:00:01	1	ı	9		171	1	4
1   SORT GROUP BY ROLLUP (25)   00:00:01			9		171		4
2   MAT_VIEW REWRITE ACCESS FULL (0)   00:00:01	EMP_SUM		9		171	1	3

------

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# Note

\_\_\_\_

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

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Deptno , Job, SUM(Sal)
- 2 FROM Emp
- 3\* GROUP BY ROLLUP(Deptno, Job)

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<sup>2</sup> FROM Emp


SOL>	,
20T/	_/

DEPTNO	JOB	SUM(SAL)
10	CLERK	1300
10	MANAGER	2450
10	PRESIDENT	5000
10		8750
20	CLERK	1900
20	ANALYST	6000
20	MANAGER	2975
20		10875
30	CLERK	950
30	MANAGER	2850
30	SALESMAN	5600
30		9400
		29025

13 rows selected.

Execution Plan

-----

Plan hash value: 2868327837

-----

# Note

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

SOL> ED

Wrote file afiedt.buf

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```
1 SELECT Deptno , Job, SUM(Sal)
```

3\* GROUP BY CUBE(Deptno, Job)

SOL> /

DEPTNO	JOB	SUM(SAL)
		29025
	CLERK	4150
	ANALYST	6000
	MANAGER	8275
	SALESMAN	5600
	PRESIDENT	5000
10		8750
10	CLERK	1300
10	MANAGER	2450
10	PRESIDENT	5000
20		10875
20	CLERK	1900
20	ANALYST	6000
20	MANAGER	2975
30		9400
30	CLERK	950
30	MANAGER	2850
DEPTNO	JOB	SUM(SAL)
30	SALESMAN	5600

18 rows selected.

Execution Plan

-----

Plan hash value: 1797585325

Id   Operation (%CPU)  Time	Name	Row	ıs	Bytes	Cos	st
0   SELECT STATEMENT (25)   00:00:01	I		9	288	Ι	4
1   SORT GROUP BY (25)   00:00:01		l	9	288		4

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<sup>2</sup> FROM Emp

```
.....
| 2 | GENERATE CUBE
(25) | 00:00:01 |
| 3 | SORT GROUP BY
                                   9 | 288 |
(25) \mid 00:00:01 \mid
| 4 | MAT VIEW REWRITE ACCESS FULL| EMP SUM |
                                                 9 |
                                                        288 I
(0) | 00:00:01 |
Note
  - dynamic sampling used for this statement (level=2)
SOL> cl scr
SQL> COL Deptno FOR 99
SQL> COL MGR FOR 9999
SQL> COL Year FOR A4
SQL> COL Week FOR A4
SOL> COL Ouarter FOR A7
SQL> COL Months FOR A10
SQL> COL Day FOR A10
SQL> COL SUM(Sal) FOR 999999
SQL> SELECT
 2 Deptno,
  3 Job,
  4 MGR,
  5 TO CHAR (HireDate, 'YYYY') Year,
  6 TO CHAR (HireDate, 'Q') Quarter,
 7 TO CHAR (HireDate, 'Month') Months,
 8 TO CHAR (HireDate, 'W') Week,
  9 TO CHAR (HireDate, 'Day') Day,
 10 SUM(Sal)
 11 FROM Emp
 12 GROUP BY
 13 GROUPING SETS
 14 (
 15 Deptno,
 16 Job,
 17 MGR,
 18 TO CHAR (HireDate, 'YYYY'),
 19 TO CHAR (HireDate, 'Q'),
 20 TO CHAR (HireDate, 'Month'),
 21 TO CHAR (HireDate, 'W'),
 22 TO CHAR (HireDate, 'Day')
 23 );
```

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DEPTNO	JOB	MGR	YEAR	QUARTER	MONTHS	WEEK	DAY	SUM(SAL)
30 20 10	SALESMAN CLERK PRESIDENT MANAGER							9400 10875 8750 5600 4150 8275
	ANALYST	7839 7782 7698 7902 7566 7788	1980 1983				Rel	6000 5000 8275 1300 6550 800 6000 1100
DEPTNO	JOB	MGR	YEAR	QUARTER	MONTHS	WEEK	DAY	SUM(SAL)
	30/8		1982	1 3 4 2	September December January June November April February May	1 3 2		4300 22825 5250 2750 12750 8275 2750 2400 2450 5000 2975 2850 9775 7400 8050
DEPTNO	JOB	MGR	YEAR	QUARTER	MONTHS	WEEK	DAY	SUM(SAL)
	,					4	Sunday Friday Thursday Monday	3800 1250 4450 9925 1250

\_\_\_\_\_

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Wednesday	1900
Tuesday	8950
Saturday	1300

42 rows selected.

Execution Plan

-----

Plan hash value: 1855244916

Id   Operation Bytes   Cost (%CPU)  Time		Name	F	Rows	
0   SELECT STATEMENT		10/2		14	
1302   29 (28)   00:00:01					
1   TEMP TABLE TRANSFORMATION	I	/// 0.			
       2      LOAD AS SELECT	1	SYS TEMP OFD9D660A 34E3BB	ı		
Z   LOAD AS SELECT		SIS_IEMP_UFD9D660A_34E3BB	I		ı
3   TABLE ACCESS FULL		EMP	ı	14	ı
756   3 (0)   00:00:01			'		'
4   LOAD AS SELECT		SYS_TEMP_0FD9D660B_34E3BB			
5   HASH GROUP BY				1	
26   3 (34)   00:00:01		0110 01		-	
6   TABLE ACCESS FULL 26   2 (0)   00:00:01		SYS_TEMP_0FD9D660A_34E3BB		1	ı
7   LOAD AS SELECT	1	SYS TEMP 0FD9D660B 34E3BB	ı		ı
/ HOAD AS SELLECT	- 1	515_1EMI_01D9D000B_34E3DB	1		'
8   HASH GROUP BY				1	ı
19   3 (34)   00:00:01					
9   TABLE ACCESS FULL		SYS_TEMP_0FD9D660A_34E3BB		1	
19   2 (0)   00:00:01					
10   LOAD AS SELECT		SYS_TEMP_0FD9D660B_34E3BB			١
11   HASH GROUP BY	1		ı	1	ı
26   3 (34)   00:00:01	- 1		1		'
12   TABLE ACCESS FULL		SYS TEMP 0FD9D660A 34E3BB	I	1	ı
26   2 (0)   00:00:01	·				
13   LOAD AS SELECT		SYS_TEMP_0FD9D660B_34E3BB			
14   HASH GROUP BY			1	1	
17   3 (34)   00:00:01					

\_\_\_\_\_\_

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	•••••	•••••	••••••		• • • • •	
 17			TABLE ACCESS FULL 2 (0)   00:00:01	SYS_TEMP_0FD9D660A_34E3BB	1	
			LOAD AS SELECT	SYS_TEMP_0FD9D660B_34E3BB		
			HASH GROUP BY	I I	1	
15 			3 (34)   00:00:01   TABLE ACCESS FULL	SYS TEMP 0FD9D660A 34E3BB	1	ı
15 I			2 (0)   00:00:01   LOAD AS SELECT			N.I.
į			HASH GROUP BY	010_12111_012920002_01202	1	,
		·	3 (34)   00:00:01		_	1
 33	21 		TABLE ACCESS FULL 2 (0)   00:00:01	SYS_TEMP_0FD9D660A_34E3BB	1	
	22		LOAD AS SELECT	SYS_TEMP_0FD9D660B_34E3BB		-
			HASH GROUP BY		1	1
	24		3 (34)   00:00:01   TABLE ACCESS FULL	SYS_TEMP_0FD9D660A_34E3BB	1	
15 	 25		2 (0)   00:00:01   LOAD AS SELECT	SYS TEMP 0FD9D660B 34E3BB		
	26	ı	 HASH GROUP BY	78,	1	ı
'	-		3 (34)   00:00:01   TABLE ACCESS FULL	SYS TEMP OFD9D660A 34E3BB	1	'
33			2 (0)   00:00:01	SIS_IEMP_OFDSD000A_34E3BB		ı
 93			VIEW 2 (0)   00:00:01		1	
			TABLE ACCESS FULL 2 (0)   00:00:01	SYS_TEMP_0FD9D660B_34E3BB	1	

\_\_\_\_\_

#### Note

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

SQL> ED

Wrote file afiedt.buf

- 1 CREATE MATERIALIZED VIEW MySubTot
- 2 ENABLE QUERY REWRITE
- 3 AS
- 4 SELECT
- 5 Deptno,
- 6 Job,
- 7 MGR,

\_\_\_\_\_\_

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```
TO CHAR (HireDate, 'YYYY') Year,
  9
    TO CHAR (HireDate, 'Q') Quarter,
 10 TO CHAR (HireDate, 'Month') Months,
 11 TO CHAR (HireDate, 'W') Week,
 12 TO CHAR (HireDate, 'Day') Day,
 13
    SUM(Sal)
 14 FROM Emp
 15 GROUP BY
 16 GROUPING SETS
 17
    (
 18 Deptno,
 19 Job,
 20 MGR,
 21 TO CHAR (HireDate, 'YYYY'),
 22 TO CHAR (HireDate, 'Q'),
 23 TO CHAR (HireDate, 'Month'),
 24 TO CHAR (HireDate, 'W'),
 25 TO CHAR(HireDate, 'Day')
 26* )
SQL> //
Materialized view created.
SOL> SELECT
  2 Deptno,
  3
    Job,
  4 MGR,
   TO CHAR (HireDate, 'YYYY') Year,
  6 TO CHAR (HireDate, 'Q') Quarter,
   TO CHAR (HireDate, 'Month') Months,
  7
  8 TO CHAR (HireDate, 'W') Week,
  9 TO CHAR (HireDate, 'Day') Day,
 10 SUM(Sal)
 11 FROM Emp
 12 GROUP BY
 13 GROUPING SETS
 14
 15 Deptno,
 16
    Job.
 17
    MGR,
 18
    TO CHAR (HireDate, 'YYYY'),
 19
   TO CHAR (HireDate, 'Q'),
 20 TO CHAR (HireDate, 'Month'),
 21 TO CHAR (HireDate, 'W'),
 22 TO CHAR (HireDate, 'Day')
 23 );
```

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DEPTNO	JOB	MGR	YEAR	QUARTER	MONTHS	WEEK	DAY	SUM(SAL)
30								9400
20								10875
10								8750
	SALESMAN							5600
	CLERK							4150
	PRESIDENT							5000
	MANAGER							8275
	ANALYST							6000
								5000
		7839						8275
		7782						1300
		7698					121	6550
		7902						800
		7566						6000
		7788						1100
			1980					800
			1983					1100
DEPTNO	JOB	MGR	YEAR	QUARTER	MONTHS	WEEK	DAY	SUM(SAL)
			1982					4300
			1982 1981	10				22825
				1				22825 5250
				1 3				22825 5250 2750
								22825 5250 2750 12750
								22825 5250 2750 12750 8275
					September			22825 5250 2750 12750 8275 2750
					December			22825 5250 2750 12750 8275 2750 7750
					December January			22825 5250 2750 12750 8275 2750 7750 2400
					December January June			22825 5250 2750 12750 8275 2750 7750 2400 2450
					December January June November			22825 5250 2750 12750 8275 2750 7750 2400 2450 5000
		24			December January June November April			22825 5250 2750 12750 8275 2750 7750 2400 2450 5000 2975
		97			December January June November April February			22825 5250 2750 12750 8275 2750 7750 2400 2450 5000 2975 2850
		84			December January June November April			22825 5250 2750 12750 8275 2750 7750 2400 2450 5000 2975 2850
	3/5	97			December January June November April February	1		22825 5250 2750 12750 8275 2750 7750 2400 2450 5000 2975 2850 9775
	2/6	87			December January June November April February	3		22825 5250 2750 12750 8275 2750 7750 2400 2450 5000 2975 2850 2850 9775 7400
	30/6	97			December January June November April February	1 3 2		22825 5250 2750 12750 8275 2750 7750 2400 2450 5000 2975 2850 9775
EPTNO	JOB	MGR	1981		December January June November April February May	3 2	DAY	22825 5250 2750 12750 8275 2750 7750 2400 2450 5000 2975 2850 2850 9775 7400 8050
DE PTNO	JOB	MGR	1981	3 4 2 2	December January June November April February May	3 2	DAY	22825 5250 2750 12750 8275 2750 7750 2400 2450 5000 2975 2850 2850 9775 7400 8050
EPTNO	JOB	MGR	1981	3 4 2 2	December January June November April February May	3 2 WEEK		22825 5250 2750 12750 8275 2750 7750 2400 2450 5000 2975 2850 2850 9775 7400 8050
EPTNO	J0B	MGR	1981	3 4 2 2	December January June November April February May	3 2 WEEK	Sunday	22825 5250 2750 12750 8275 2750 7750 2400 2450 5000 2975 2850 9775 7400 8050 SUM(SAL)
DEPTNO	JOB	MGR	1981	3 4 2 2	December January June November April February May	3 2 WEEK		22825 5250 2750 12750 8275 2750 7750 2400 2450 5000 2975 2850 2850 9775 7400 8050 SUM(SAL)

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..... Wednesday Tuesday Saturday 8950 1300 42 rows selected. Execution Plan Plan hash value: 1646132919 | Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time | | 0 | SELECT STATEMENT 3906 I (0) | 00:00:01 | 1 | MAT\_VIEW REWRITE ACCESS FULL| MYSUBTOT | 42 | 3906 |  $(0) \mid 00:00:0\overline{1} \mid$ Note

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

SQL> SPOOL OFF

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