

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

```
SQL> SELECT
  2  Job,
  3  TO_CHAR(AVG(Sal), '99G999D99') JobSalAvg
  4  FROM Emp
  5  GROUP BY ROLLUP(Job);
```

JOB	JOBSALAVG
ANALYST	3,000.00
CLERK	1,037.50
MANAGER	2,758.33
PRESIDENT	5,000.00
SALESMAN	1,400.00
	2,073.21

6 rows selected.

SQL> ED
Wrote file afiedt.buf

```
  1  SELECT
  2  Job,
  3  TO_CHAR(SUM(Sal), '99G999D99') JobSalSum,
  4  TO_CHAR(AVG(Sal), '99G999D99') JobSalAvg
  5  FROM Emp
  6* GROUP BY ROLLUP(Job)
SQL> /
```

JOB	JOBSALSUM	JOBSALAVG
ANALYST	6,000.00	3,000.00
CLERK	4,150.00	1,037.50
MANAGER	8,275.00	2,758.33
PRESIDENT	5,000.00	5,000.00
SALESMAN	5,600.00	1,400.00
	29,025.00	2,073.21

6 rows selected.

SQL> ED
Wrote file afiedt.buf

```
  1  SELECT
  2  Job,
  3  TO_CHAR(SUM(Sal), '99G999D99') JobSalSum,
```

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```
4  T)CHAR(COUNT(*), '09') Staff,
5  TO_CHAR(AVG(Sal), '99G999D99') JobSalAvg
6  FROM Emp
7* GROUP BY ROLLUP(Job)
SQL> /
T)CHAR(COUNT(*), '09') Staff,
*
ERROR at line 4:
ORA-00923: FROM keyword not found where expected
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  Job,
3  TO_CHAR(SUM(Sal), '99G999D99') JobSalSum,
4  TO_CHAR(COUNT(*), '09') Staff,
5  TO_CHAR(AVG(Sal), '99G999D99') JobSalAvg
6  FROM Emp
7* GROUP BY ROLLUP(Job)
SQL> /
```

JOB	JOBSALSUM	STA	JOBSALAVG
ANALYST	6,000.00	02	3,000.00
CLERK	4,150.00	04	1,037.50
MANAGER	8,275.00	03	2,758.33
PRESIDENT	5,000.00	01	5,000.00
SALESMAN	5,600.00	04	1,400.00
	29,025.00	14	2,073.21

6 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  Deptno,
3  TO_CHAR(SUM(Sal), '99G999D99') JobSalSum,
4  TO_CHAR(COUNT(*), '09') Staff,
5  TO_CHAR(AVG(Sal), '99G999D99') JobSalAvg
6  FROM Emp
7* GROUP BY ROLLUP(Deptno)
SQL> /
```

DEPTNO	JOBSALSUM	STA	JOBSALAVG
--------	-----------	-----	-----------

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```
-----
      10      8,750.00      03      2,916.67
      20     10,875.00      05      2,175.00
      30      9,400.00      06      1,566.67
      29,025.00      14      2,073.21
```

```
SQL> SELECT
      2 Deptno,
      3 SUM(Sal) SUMSal,
      4 AVG(Sal) AVGSal,
      5 MAX(Sal) MaxSal,
      6 MIN(Sal) MinSal
      7 FROM Emp
      8 GROUP BY ROLLUP(Deptno);
```

DEPTNO	SUMSAL	AVGSAL	MAXSAL	MINSAL
10	8750	2916.66667	5000	1300
20	10875	2175	3000	800
30	9400	1566.66667	2850	950
	29025	2073.21429	5000	800

```
SQL> COLUMN Deptno FORMAT A15
SQL> SELECT
      2 NVL(TO_CHAR(Deptno), 'All Departments') Deptno,
      3 AVG(SAL) AVGSal
      4 FROM Emp
      5 GROUP BY ROLLUP(Deptno);
```

DEPTNO	AVGSAL
10	2916.66667
20	2175
30	1566.66667
All Departments	2073.21429

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT
2 NVL(TO_CHAR(Deptno), 'All Departments') Deptno,
3 SUM(SAL) SUMSal
4 FROM Emp
5* GROUP BY ROLLUP(Deptno)
SQL> /
```

DEPTNO	SUMSAL
--------	--------

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```
-----
10                8750
20                10875
30                9400
All Departments   29025
```

```
SQL> SELECT
  2  Deptno,
  3  Job,
  4  SUM(Sal) Salary
  5  FROM Emp
  6  GROUP BY ROLLUP(Deptno, Job);
```

```
DEPTNO JOB          SALARY
-----
##### CLERK        1300
##### MANAGER       2450
##### PRESIDENT     5000
#####              8750
##### CLERK         1900
##### ANALYST       6000
##### MANAGER       2975
#####              10875
##### CLERK         950
##### MANAGER       2850
##### SALESMAN      5600
#####              9400
#####              29025
```

13 rows selected.

```
SQL> COLUMN Deptno FORMAT 99
SQL> SELECT
  2  Deptno,
  3  Job,
  4  SUM(Sal) Salary
  5  FROM Emp
  6  GROUP BY ROLLUP(Deptno, Job);
```

```
DEPTNO JOB          SALARY
-----
10 CLERK            1300
10 MANAGER          2450
10 PRESIDENT        5000
10                  8750
20 CLERK            1900
20 ANALYST          6000
```

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```
20 MANAGER          2975
20                   10875
30 CLERK             950
30 MANAGER           2850
30 SALESMAN           5600
30                   9400
                   29025
```

13 rows selected.

```
SQL> COLUMN Deptno FORMAT A15
```

```
SQL> SELECT
```

```
2 NVL(TO_CHAR(Deptno), 'All Departments') Deptno,
3 NVL(Job, 'All Jobs') Jobs,
4 SUM(Sal) Salary
5 FROM Emp
6 GROUP BY ROLLUP(Deptno, Job);
```

DEPTNO	JOBS	SALARY
10	CLERK	1300
10	MANAGER	2450
10	PRESIDENT	5000
10	All Jobs	8750
20	CLERK	1900
20	ANALYST	6000
20	MANAGER	2975
20	All Jobs	10875
30	CLERK	950
30	MANAGER	2850
30	SALESMAN	5600
30	All Jobs	9400
All Departments	All Jobs	29025

13 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT
```

```
2 TO_CHAR(HireDate, 'YYYY') "Year",
3 SUM(Sal) SumSal
4 FROM Emp
5 GROUP BY ROLLUP(TO_CHAR(HireDate, 'YYYY'));
```

Year	SUMSAL
1980	800

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```
1981      22825
1982      4300
1983      1100
          29025
```

```
SQL> COL Deptno FORMAT 999
SQL> SELECT
  2  Deptno,
  3  Job,
  4  SUM(Sal) Salary
  5  FROM Emp
  6  GROUP BY CUBE(Deptno, Job)
  7  ORDER BY Deptno;
```

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

DEPTNO	JOB	SALARY
		29025

18 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  Deptno,
3  Job,
4  SUM(Sal) Salary
```

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```
5 FROM Emp
6 GROUP BY Deptno, Job
7* ORDER BY Deptno
SQL> /
```

DEPTNO	JOB	SALARY
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.

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT
2 Deptno,
3 SUM(Sal) Salary
4 FROM Emp
5 GROUP BY Deptno
6* ORDER BY Deptno
SQL> /
```

DEPTNO	SALARY
10	8750
20	10875
30	9400

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT
2 Job,
3 SUM(Sal) Salary
4 FROM Emp
5 GROUP BY Job
6* ORDER BY Job
SQL> /
```

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```
JOB          SALARY
-----
ANALYST      6000
CLERK        4150
MANAGER      8275
PRESIDENT    5000
SALESMAN     5600
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  SUM(Sal) Salary
3* FROM Emp
SQL> /
```

```
          SALARY
-----
        29025
```

```
SQL> cl scr
```

```
SQL> SELECT
2  NVL(TO_CHAR(Deptno), 'All Departments') Deptno,
3  NVL(Job, 'All Jobs') Job,
4  SUM(Sal) Salary
5  FROM Emp
6  GROUP BY CUBE(Deptno, Job);
```

DEPTNO	JOB	SALARY
All Departments	All Jobs	29025
All Departments	CLERK	4150
All Departments	ANALYST	6000
All Departments	MANAGER	8275
All Departments	SALESMAN	5600
All Departments	PRESIDENT	5000
10	All Jobs	8750
10	CLERK	1300
10	MANAGER	2450
10	PRESIDENT	5000
20	All Jobs	10875
20	CLERK	1900
20	ANALYST	6000
20	MANAGER	2975
30	All Jobs	9400
30	CLERK	950

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```
.....
30                                MANAGER                2850
DEPTNO                           JOB                    SALARY
-----
30                                SALESMAN              5600
```

18 rows selected.

SQL> cl scr

SQL> COLUMN Deptno FORMAT 99

SQL> SELECT

```
2  GROUPING(Deptno) GRPDeptIDX,
3  Deptno,
4  SUM(Sal)
5  FROM Emp
6  GROUP BY ROLLUP(Deptno);
```

```
GRPDEPTIDX DEPTNO    SUM(SAL)
-----
          0         10         8750
          0         20        10875
          0         30         9400
          1
          1        29025
```

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  Deptno,
3  SUM(Sal)
4  FROM Emp
5  GROUP BY ROLLUP(Deptno)
6*  HAVING GROUPING(Deptno) &GiveIdx
```

SQL> /

Enter value for giveidx: = 0

```
DEPTNO    SUM(SAL)
-----
       30         9400
       20        10875
       10         8750
```

SQL> /

Enter value for giveidx: = 1

```
DEPTNO    SUM(SAL)
-----
```

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29025

SQL> /
Enter value for giveidx: IN(0, 1)

DEPTNO	SUM(SAL)
10	8750
20	10875
30	9400
	29025

SQL> ED
Wrote file afiedt.buf

```
1  SELECT
2  Job,
3  SUM(Sal)
4  FROM Emp
5  GROUP BY ROLLUP(Job)
6* HAVING GROUPING(Job) &GiveIdx
```

SQL> /
Enter value for giveidx: = 0

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

SQL> /
Enter value for giveidx: = 1

JOB	SUM(SAL)
	29025

SQL> /
Enter value for giveidx: IN(0, 1)

JOB	SUM(SAL)
ANALYST	6000
CLERK	4150

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```
MANAGER      8275
PRESIDENT    5000
SALESMAN      5600
              29025
```

6 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  &&GiveDim,
3  SUM(Sal)
4  FROM Emp
5  GROUP BY ROLLUP(&&GiveDim)
6* HAVING GROUPING(&&GiveDim) &GiveIdx
```

SQL> /

Enter value for givedim: Deptno

Enter value for giveidx: = 0

DEPTNO	SUM(SAL)
30	9400
20	10875
10	8750

SQL> /

Enter value for giveidx: Job

HAVING GROUPING(Deptno) Job

*

ERROR at line 6:

ORA-00920: invalid relational operator

SQL> /

Enter value for giveidx: = 1

DEPTNO	SUM(SAL)
	29025

SQL> /

Enter value for giveidx: IN(0, 1)

DEPTNO	SUM(SAL)
10	8750

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```
20      10875
30      9400
      29025
```

```
SQL> DEFINE GiveDim = Job
SQL> /
Enter value for giveidx: = 0
```

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

```
SQL> /
Enter value for giveidx: = 1
```

```
JOB          SUM(SAL)
-----
      29025
```

```
SQL> /
Enter value for giveidx: IN(0, 1)
```

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

6 rows selected.

```
SQL> /
Enter value for giveidx:
HAVING GROUPING(Job)
      *
ERROR at line 6:
ORA-00920: invalid relational operator
```

```
SQL> DEFINE GiveDim = TO_CHAR(HireDate,'YYYY')
SQL> /
```

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Enter value for giveidx: = 0

TO_C	SUM(SAL)
1980	800
1983	1100
1982	4300
1981	22825

SQL> /

Enter value for giveidx: = 1

TO_C	SUM(SAL)
	29025

SQL> /

Enter value for giveidx: IN(0, 1)

TO_C	SUM(SAL)
1980	800
1981	22825
1982	4300
1983	1100
	29025

SQL> cl scr

SQL> DEFINE GiveDim =

SP2-0137: DEFINE requires a value following equal sign

SQL>

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  &&GiveDim,
3  SUM(Sal)
4  FROM Emp
5  GROUP BY ROLLUP(&&GiveDim)
6*  HAVING GROUPING(&GiveDimID) &GiveIdx
```

SQL> /

Enter value for givedimid: Deptno

Enter value for giveidx: = 1

```
HAVING GROUPING(Deptno) = 1
*
```

ERROR at line 6:

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ORA-00979: not a GROUP BY expression

```
SQL> DEFINE GiveDim = Deptno,Job
SQL> /
Enter value for givedimid: Deptno
Enter value for giveidx: = 0
```

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

12 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT Deptno, Dname
2 FROM Dept;
```

DEPTNO	DNAME
10	ACCOUNTING
20	RESEARCH
30	SALES
40	OPERATIONS

```
SQL> SELECT Ename, Job, Sal, Deptno
2 FROM Emp;
```

ENAME	JOB	SAL	DEPTNO
KING	PRESIDENT	5000	10
BLAKE	MANAGER	2850	30
CLARK	MANAGER	2450	10
JONES	MANAGER	2975	20
MARTIN	SALESMAN	1250	30

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```
.....
ALLEN      SALESMAN      1600      30
TURNER     SALESMAN      1500      30
JAMES      CLERK          950      30
WARD       SALESMAN     1250      30
FORD       ANALYST      3000      20
SMITH      CLERK          800      20
SCOTT      ANALYST      3000      20
ADAMS      CLERK         1100      20
MILLER     CLERK         1300      10
```

14 rows selected.

```
SQL> SELECT
      2  Ename,
      3  Job,
      4  Sal,
      5  Deptno,
      6  DECODE
      7  (
      8  Deptno,
      9  10, 'ACCOUNTING',
     10  20, 'RESEARCH',
     11  30, 'SALES',
     12  40, 'OPERATIONS',
     13  'OTHER'
     14  ) Departments
     15  FROM Emp
     16  ORDER BY Departments;
```

ENAME	JOB	SAL	DEPTNO	DEPARTMENT
KING	PRESIDENT	5000	10	ACCOUNTING
CLARK	MANAGER	2450	10	ACCOUNTING
MILLER	CLERK	1300	10	ACCOUNTING
ADAMS	CLERK	1100	20	RESEARCH
SCOTT	ANALYST	3000	20	RESEARCH
SMITH	CLERK	800	20	RESEARCH
FORD	ANALYST	3000	20	RESEARCH
JONES	MANAGER	2975	20	RESEARCH
WARD	SALESMAN	1250	30	SALES
JAMES	CLERK	950	30	SALES
ALLEN	SALESMAN	1600	30	SALES
MARTIN	SALESMAN	1250	30	SALES
BLAKE	MANAGER	2850	30	SALES
TURNER	SALESMAN	1500	30	SALES

14 rows selected.

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Spool File For Oracle Students Trained by Mr.Sathish Yellanki

```
SQL> SET AUTOTRACE OFF EXPLAIN
SQL> SELECT
  2  Ename,
  3  Job,
  4  Sal,
  5  Deptno,
  6  DECODE
  7  (
  8    Deptno,
  9    10, 'ACCOUNTING',
 10    20, 'RESEARCH',
 11    30, 'SALES',
 12    40, 'OPERATIONS',
 13    'OTHER'
 14  ) Departments
 15 FROM Emp
 16 ORDER BY Departments;
```

ENAME	JOB	SAL	DEPTNO	DEPARTMENT
KING	PRESIDENT	5000	10	ACCOUNTING
CLARK	MANAGER	2450	10	ACCOUNTING
MILLER	CLERK	1300	10	ACCOUNTING
ADAMS	CLERK	1100	20	RESEARCH
SCOTT	ANALYST	3000	20	RESEARCH
SMITH	CLERK	800	20	RESEARCH
FORD	ANALYST	3000	20	RESEARCH
JONES	MANAGER	2975	20	RESEARCH
WARD	SALESMAN	1250	30	SALES
JAMES	CLERK	950	30	SALES
ALLEN	SALESMAN	1600	30	SALES
MARTIN	SALESMAN	1250	30	SALES
BLAKE	MANAGER	2850	30	SALES
TURNER	SALESMAN	1500	30	SALES

14 rows selected.

```
SQL> SET AUTOTRACE ON EXPLAIN
SQL> R
  1  SELECT
  2  Ename,
  3  Job,
  4  Sal,
  5  Deptno,
  6  DECODE
  7  (
```

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```
8      Deptno,
9      10, 'ACCOUNTING',
10     20, 'RESEARCH',
11     30, 'SALES',
12     40, 'OPERATIONS',
13     'OTHER'
14     ) Departments
15 FROM Emp
16* ORDER BY Departments
```

ENAME	JOB	SAL	DEPTNO	DEPARTMENT
KING	PRESIDENT	5000	10	ACCOUNTING
CLARK	MANAGER	2450	10	ACCOUNTING
MILLER	CLERK	1300	10	ACCOUNTING
ADAMS	CLERK	1100	20	RESEARCH
SCOTT	ANALYST	3000	20	RESEARCH
SMITH	CLERK	800	20	RESEARCH
FORD	ANALYST	3000	20	RESEARCH
JONES	MANAGER	2975	20	RESEARCH
WARD	SALESMAN	1250	30	SALES
JAMES	CLERK	950	30	SALES
ALLEN	SALESMAN	1600	30	SALES
MARTIN	SALESMAN	1250	30	SALES
BLAKE	MANAGER	2850	30	SALES
TURNER	SALESMAN	1500	30	SALES

14 rows selected.

Execution Plan

Plan hash value: 150391907

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	546	4 (25)	00:00:01
1	SORT ORDER BY		14	546	4 (25)	00:00:01
2	TABLE ACCESS FULL	EMP	14	546	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
2  Ename,
3  Job,
4  Sal,
5  Dept.Deptno,
6  Dname
7  FROM Emp, Dept
8* WHERE Emp.Deptno = Dept.Deptno
SQL> /
```

ENAME	JOB	SAL	DEPTNO	DNAME
KING	PRESIDENT	5000	10	ACCOUNTING
BLAKE	MANAGER	2850	30	SALES
CLARK	MANAGER	2450	10	ACCOUNTING
JONES	MANAGER	2975	20	RESEARCH
MARTIN	SALESMAN	1250	30	SALES
ALLEN	SALESMAN	1600	30	SALES
TURNER	SALESMAN	1500	30	SALES
JAMES	CLERK	950	30	SALES
WARD	SALESMAN	1250	30	SALES
FORD	ANALYST	3000	20	RESEARCH
SMITH	CLERK	800	20	RESEARCH
SCOTT	ANALYST	3000	20	RESEARCH
ADAMS	CLERK	1100	20	RESEARCH
MILLER	CLERK	1300	10	ACCOUNTING

14 rows selected.

Execution Plan

Plan hash value: 615168685

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Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	854	7 (15)	00:00:01
* 1	HASH JOIN		14	854	7 (15)	00:00:01
2	TABLE ACCESS FULL	DEPT	4	88	3 (0)	00:00:01
3	TABLE ACCESS FULL	EMP	14	546	3 (0)	00:00:01

Predicate Information (identified by operation id):

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

Note

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

```
SQL> SELECT
  2  INITCAP(Ename)||' Takes Care of '||
  3  DECODE
  4  (
  5   Job,
  6   'ANALYST', 'Analysis',
  7   'CLERK', 'Filing',
  8   'MANAGER', 'Managing',
  9   'PRESIDENT', 'Administration',
 10   'SALESMAN', 'Sales'
 11 ) Responsibilities
 12 FROM Emp;
```

RESPONSIBILITIES

King Takes Care of Administration
Blake Takes Care of Managing
Clark Takes Care of Managing
Jones Takes Care of Managing
Martin Takes Care of Sales
Allen Takes Care of Sales
Turner Takes Care of Sales
James Takes Care of Filing

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Ward Takes Care of Sales
Ford Takes Care of Analysis
Smith Takes Care of Filing
Scott Takes Care of Analysis
Adams Takes Care of Filing
Miller Takes Care of Filing

14 rows selected.

Execution Plan

Plan hash value: 3956160932

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	182	3 (0)	00:00:01
1	TABLE ACCESS FULL	EMP	14	182	3 (0)	00:00:01

Note

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

SQL> COL Grades FORMAT A6

SQL> SELECT

```
2  Ename,
3  Job,
4  DECODE
5  (
6  Job,
7  'CLERK', 'E',
8  'SALESMAN', 'D',
9  'ANALYST', 'C',
10 'MANAGER', 'B',
11 'PRESIDENT', 'A',
12 'O'
13 ) Grades
14 FROM Emp
15 ORDER BY Job;
```

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ENAME	JOB	GRADES
FORD	ANALYST	C
SCOTT	ANALYST	C
SMITH	CLERK	E
MILLER	CLERK	E
JAMES	CLERK	E
ADAMS	CLERK	E
JONES	MANAGER	B
CLARK	MANAGER	B
BLAKE	MANAGER	B
KING	PRESIDENT	A
WARD	SALESMAN	D
ALLEN	SALESMAN	D
MARTIN	SALESMAN	D
TURNER	SALESMAN	D

14 rows selected.

Execution Plan

Plan hash value: 150391907

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	182	4 (25)	00:00:01
1	SORT ORDER BY		14	182	4 (25)	00:00:01
2	TABLE ACCESS FULL	EMP	14	182	3 (0)	00:00:01

Note

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

```
SQL> SELECT
      2  Ename,
      3  Job,
```

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```
4  DECODE
5  (
6  Job,
7  'CLERK', 'E',
8  'SALESMAN', 'D',
9  'ANALYST', 'C',
10 'MANAGER', 'B',
11 'PRESIDENT', 'A',
12 'O'
13 ) Grades,
14 Deptno,
15 DECODE
16 (
17 Deptno,
18 10, 'ACCOUNTING',
19 20, 'RESEARCH',
20 30, 'SALES',
21 40, 'OPERATIONS',
22 'OTHER'
23 ) Departments,
24 Sal,
25 Grade
26 FROM Emp E, Salgrade S
27 WHERE Sal BETWEEN LoSal AND HiSal
28 ORDER BY JOB;
```

ENAME	JOB	GRADES	DEPTNO	DEPARTMENT	SAL	GRADE
SCOTT	ANALYST	C	20	RESEARCH	3000	4
FORD	ANALYST	C	20	RESEARCH	3000	4
JAMES	CLERK	E	30	SALES	950	1
ADAMS	CLERK	E	20	RESEARCH	1100	1
MILLER	CLERK	E	10	ACCOUNTING	1300	2
SMITH	CLERK	E	20	RESEARCH	800	1
CLARK	MANAGER	B	10	ACCOUNTING	2450	4
BLAKE	MANAGER	B	30	SALES	2850	4
JONES	MANAGER	B	20	RESEARCH	2975	4
KING	PRESIDENT	A	10	ACCOUNTING	5000	5
ALLEN	SALESMAN	D	30	SALES	1600	3
MARTIN	SALESMAN	D	30	SALES	1250	2
WARD	SALESMAN	D	30	SALES	1250	2
TURNER	SALESMAN	D	30	SALES	1500	3

14 rows selected.

Execution Plan

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Plan hash value: 1546021526

Id	Operation	Name	Rows	Bytes	Cost (%CPU)
0	SELECT STATEMENT		1	78	9 (34)
1	SORT ORDER BY		1	78	9 (34)
2	MERGE JOIN		1	78	8 (25)
3	SORT JOIN		5	195	4 (25)
4	TABLE ACCESS FULL	SALGRADE	5	195	3 (0)
* 5	FILTER				
* 6	SORT JOIN		14	546	4 (25)
7	TABLE ACCESS FULL	EMP	14	546	3 (0)

Predicate Information (identified by operation id):

5 - filter("SAL"<="HISAL")
6 - access("SAL">="LOSAL")
filter("SAL">="LOSAL")

Note

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

SQL> ED
Wrote file afiedt.buf

```
1 SELECT
2 Ename,
3 Job,
4 DECODE
5 (
```

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```
6  Job,
7  'CLERK', 'E',
8  'SALESMAN', 'D',
9  'ANALYST', 'C',
10 'MANAGER', 'B',
11 'PRESIDENT', 'A',
12 'O'
13 ) Grades,
14 Dept.Deptno,
15 Dname,
16 Sal,
17 Grade
18 FROM Emp E, Salgrade S, Dept D
19 WHERE Sal BETWEEN LoSal AND HiSal AND
20 E.Deptno = D.Deptno
21* ORDER BY JOB
SQL> /
Dept.Deptno,
*
ERROR at line 14:
ORA-00904: "DEPT"."DEPTNO": invalid identifier
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  Ename,
3  Job,
4  DECODE
5  (
6  Job,
7  'CLERK', 'E',
8  'SALESMAN', 'D',
9  'ANALYST', 'C',
10 'MANAGER', 'B',
11 'PRESIDENT', 'A',
12 'O'
13 ) Grades,
14 D.Deptno,
15 Dname,
16 Sal,
17 Grade
18 FROM Emp E, Salgrade S, Dept D
19 WHERE Sal BETWEEN LoSal AND HiSal AND
20 E.Deptno = D.Deptno
21* ORDER BY JOB
```

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SQL> /

ENAME	JOB	GRADES	DEPTNO	DNAME	SAL	GRADE
SCOTT	ANALYST	C	20	RESEARCH	3000	4
FORD	ANALYST	C	20	RESEARCH	3000	4
JAMES	CLERK	E	30	SALES	950	1
ADAMS	CLERK	E	20	RESEARCH	1100	1
MILLER	CLERK	E	10	ACCOUNTING	1300	2
SMITH	CLERK	E	20	RESEARCH	800	1
CLARK	MANAGER	B	10	ACCOUNTING	2450	4
BLAKE	MANAGER	B	30	SALES	2850	4
JONES	MANAGER	B	20	RESEARCH	2975	4
KING	PRESIDENT	A	10	ACCOUNTING	5000	5
ALLEN	SALESMAN	D	30	SALES	1600	3
MARTIN	SALESMAN	D	30	SALES	1250	2
WARD	SALESMAN	D	30	SALES	1250	2
TURNER	SALESMAN	D	30	SALES	1500	3

14 rows selected.

Execution Plan

Plan hash value: 777546851

Id	Operation	Name	Rows	Bytes
Cost (%CPU)	Time			
0	SELECT STATEMENT		1	100
10	(30) 00:00:01			
1	SORT ORDER BY		1	100
10	(30) 00:00:01			
2	NESTED LOOPS			
3	NESTED LOOPS		1	100
9	(23) 00:00:01			
4	MERGE JOIN		1	78
8	(25) 00:00:01			
5	SORT JOIN		5	195
4	(25) 00:00:01			
6	TABLE ACCESS FULL	SALGRADE	5	195
3	(0) 00:00:01			

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* 7		FILTER					
* 8		SORT JOIN				14	546
4		(25) 00:00:01					
9		TABLE ACCESS FULL		EMP		14	546
3		(0) 00:00:01					
* 10		INDEX UNIQUE SCAN		DEPT_PRIMARY_KEY		1	
0		(0) 00:00:01					
11		TABLE ACCESS BY INDEX ROWID		DEPT		1	22
1		(0) 00:00:01					

Predicate Information (identified by operation id):

```
7 - filter("SAL"<="HISAL")
8 - access("SAL">="LOSAL")
    filter("SAL">="LOSAL")
10 - access("E"."DEPTNO"="D"."DEPTNO")
```

Note

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

```
SQL> SELECT Ename, Job,
2  DECODE
3  (
4  MGR,
5  7566,
6  (
7  SELECT Ename
8  FROM Emp
9  WHERE Empno = 7566
10 ),
11 7698,
12 (
13 SELECT Ename
14 FROM Emp
15 WHERE Empno = 7698
16 ),
17 7782,
18 (
19 SELECT Ename
20 FROM Emp
21 WHERE Empno = 7782
22 ),
```

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```
23 7788,
24 (
25 SELECT Ename
26 FROM Emp
27 WHERE Empno = 7788
28 ),
29 7839,
30 (
31 SELECT Ename
32 FROM Emp
33 WHERE Empno = 7839
34 ),
35 7902,
36 (
37 SELECT Ename
38 FROM Emp
39 WHERE Empno = 7902
40 ),
41 'Do Not Know'
42 ) Manager,
43 DECODE
44 (
45 Job,
46 'CLERK', 'E',
47 'SALESMAN', 'D',
48 'ANALYST', 'C',
49 'MANAGER', 'B',
50 'PRESIDENT', 'A',
51 'O'
52 ) Grades,
53 Deptno,
54 DECODE
55 (
56 Deptno,
57 10, 'ACCOUNTING',
58 20, 'RESEARCH',
59 30, 'SALES',
60 40, 'OPERATIONS',
61 'OTHER'
62 ) Departments,
63 Sal,
64 Grade
65 FROM EMP E, Salgrade S
66 WHERE Sal BETWEEN LoSal AND HiSal
67 ORDER BY JOB;
```

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```

-----
ENAME      JOB      MANAGER      GRADES DEPTNO DEPARTMENT      SAL
GRADE
-----
SCOTT      ANALYST    JONES        C        20 RESEARCH      3000
4
FORD       ANALYST    JONES        C        20 RESEARCH      3000
4
JAMES      CLERK      BLAKE        E        30 SALES        950
1
ADAMS      CLERK      SCOTT        E        20 RESEARCH      1100
1
MILLER     CLERK      CLARK        E        10 ACCOUNTING    1300
2
SMITH      CLERK      FORD         E        20 RESEARCH      800
1
CLARK      MANAGER    KING         B        10 ACCOUNTING    2450
4
BLAKE      MANAGER    KING         B        30 SALES        2850
4
JONES      MANAGER    KING         B        20 RESEARCH      2975
4
KING       PRESIDENT  Do Not Know  A        10 ACCOUNTING    5000
5
ALLEN      SALESMAN   BLAKE        D        30 SALES        1600
3
MARTIN     SALESMAN   BLAKE        D        30 SALES        1250
2
WARD       SALESMAN   BLAKE        D        30 SALES        1250
2
TURNER     SALESMAN   BLAKE        D        30 SALES        1500
3

```

14 rows selected.

Execution Plan

Plan hash value: 2337213613

```

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

```

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```

| 0 | SELECT STATEMENT | | 1 |
91 | 9 (34)| 00:00:01 |
| 1 | TABLE ACCESS BY INDEX ROWID | EMP | 1 |
20 | 1 (0)| 00:00:01 |
| * 2 | INDEX UNIQUE SCAN | EMP_PRIMARY_KEY | 1 |
| 1 | (0)| 00:00:01 |
| 3 | TABLE ACCESS BY INDEX ROWID | EMP | 1 |
20 | 1 (0)| 00:00:01 |
| * 4 | INDEX UNIQUE SCAN | EMP_PRIMARY_KEY | 1 |
| 1 | (0)| 00:00:01 |
| 5 | TABLE ACCESS BY INDEX ROWID | EMP | 1 |
20 | 1 (0)| 00:00:01 |
| * 6 | INDEX UNIQUE SCAN | EMP_PRIMARY_KEY | 1 |
| 1 | (0)| 00:00:01 |
| 7 | TABLE ACCESS BY INDEX ROWID | EMP | 1 |
20 | 1 (0)| 00:00:01 |
| * 8 | INDEX UNIQUE SCAN | EMP_PRIMARY_KEY | 1 |
| 1 | (0)| 00:00:01 |
| 9 | TABLE ACCESS BY INDEX ROWID | EMP | 1 |
20 | 1 (0)| 00:00:01 |
| * 10 | INDEX UNIQUE SCAN | EMP_PRIMARY_KEY | 1 |
| 1 | (0)| 00:00:01 |
| 11 | TABLE ACCESS BY INDEX ROWID | EMP | 1 |
20 | 1 (0)| 00:00:01 |
| * 12 | INDEX UNIQUE SCAN | EMP_PRIMARY_KEY | 1 |
| 1 | (0)| 00:00:01 |
| 13 | SORT ORDER BY | | 1 |
91 | 9 (34)| 00:00:01 |
| 14 | MERGE JOIN | | 1 |
91 | 8 (25)| 00:00:01 |
| 15 | SORT JOIN | | 5 |
195 | 4 (25)| 00:00:01 |
| 16 | TABLE ACCESS FULL | SALGRADE | 5 |
195 | 3 (0)| 00:00:01 |
| * 17 | FILTER | | |
| * 18 | SORT JOIN | | 14 |
728 | 4 (25)| 00:00:01 |
| 19 | TABLE ACCESS FULL | EMP | 14 |
728 | 3 (0)| 00:00:01 |

```

Predicate Information (identified by operation id):

```

2 - access("EMPNO"=7566)

```

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```
4 - access("EMPNO"=7698)
6 - access("EMPNO"=7782)
8 - access("EMPNO"=7788)
10 - access("EMPNO"=7839)
12 - access("EMPNO"=7902)
17 - filter("SAL"<="HISAL")
18 - access("SAL">="LOSAL")
    filter("SAL">="LOSAL")
```

Note

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

SQL> cl scr

SQL> SELECT

```
2 TO_CHAR(HireDate, 'YYYY') Year,
3 COUNT(*) Staff
4 FROM Emp
5 GROUP BY ROLLUP(TO_CHAR(HireDate, 'YYYY'));
```

YEAR	STAFF
1980	1
1981	10
1982	2
1983	1
	14

Execution Plan

Plan hash value: 52302870

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	126	4 (25)	00:00:01
1	SORT GROUP BY ROLLUP		14	126	4 (25)	00:00:01
2	TABLE ACCESS FULL	EMP	14	126	3 (0)	00:00:01

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Note

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

```
SQL> SELECT
  2     SUM
  3     (
  4     DECODE
  5         (
  6         TO_CHAR(HireDate, 'YYYY'),
  7         1980, 1, 0
  8         )
  9     ) "1980" ,
 10     SUM
 11     (
 12     DECODE
 13         (
 14         TO_CHAR(HireDate, 'YYYY'),
 15         1981, 1, 0
 16         )
 17     ) "1981" ,
 18     SUM
 19     (
 20     DECODE
 21         (
 22         TO_CHAR(HireDate, 'YYYY'),
 23         1982, 1, 0
 24         )
 25     ) "1982" ,
 26     SUM
 27     (
 28     DECODE
 29         (
 30         TO_CHAR(HireDate, 'YYYY'),
 31         1983, 1, 0
 32         )
 33     ) "1983",
 34     COUNT(*) Total
 35 FROM Emp;
```

1980	1981	1982	1983	TOTAL
1	10	2	1	14

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Execution Plan

Plan hash value: 2083865914

```
--
| Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time |
|----|-----|-----|-----|-----|-----|-----|
| 0 | SELECT STATEMENT | | 1 | 9 | 3 (0) | 00:00:01 |
| 1 | SORT AGGREGATE | | 1 | 9 | | |
| 2 | TABLE ACCESS FULL | EMP | 14 | 126 | 3 (0) | 00:00:01 |
--
```

Note

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

SQL> SPOOL OFF

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