

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

```
SQL> SELECT GROUPING(Deptno), Deptno, SUM(Sal)
2   FROM Emp
3   GROUP BY ROLLUP(Deptno);
```

GROUPING(DEPTNO)	DEPTNO	SUM(SAL)
0	10	8750
0	20	10875
0	30	9400
1		29025

```
SQL> COLUMN DEPARTMENTS FORMAT A15
SQL> COLUMN SUM(Sal) FORMAT 99999
SQL> SELECT
2   DECODE
3   (
4   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 Department Investments : ',
6  'Department '||Deptno||' Investment'
7  ) Departments,
8  SUM(Sal)
9  FROM Emp
10* GROUP BY ROLLUP(Deptno)
SQL> COL DEPARTMENTS FORMAT A30
```

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```
SQL> R
1  SELECT
2  DECODE
3  (
4  GROUPING(Deptno),
5  1, 'All Department Investments : ',
6  'Department '||Deptno||' Investment'
7  ) Departments,
8  SUM(Sal)
9  FROM Emp
10* GROUP BY ROLLUP(Deptno)
```

DEPARTMENTS	SUM(SAL)
-----	-----
Department 10 Investment	8750
Department 20 Investment	10875
Department 30 Investment	9400
All Department Investments :	29025

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

```
1  SELECT
2  DECODE
3  (
4  GROUPING(Deptno),
5  1, 'All Department Investments : ',
6  'Department '||Deptno||' Investment'
7  ) Departments,
8  TO_CHAR(SUM(Sal), '99G999D99') SalSum
9  FROM Emp
10* GROUP BY ROLLUP(Deptno)
SQL> /
```

DEPARTMENTS	SALSUM
-----	-----
Department 10 Investment	8,750.00
Department 20 Investment	10,875.00
Department 30 Investment	9,400.00
All Department Investments :	29,025.00

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

```
1  SELECT
2  DECODE
3  (
```

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```
4  GROUPING(Deptno),
5  1, 'All Department Investments : ',
6  'Department "' || TO_CHAR(TO_DATE(Deptno, 'J'), 'JSP') || '"
Investment'
7  ) Departments,
8  TO_CHAR(SUM(Sal), '99G999D99') SalSum
9  FROM Emp
10* GROUP BY ROLLUP(Deptno)
SQL> COL DEPARTMENTS FORMAT A35
SQL> R
1  SELECT
2  DECODE
3  (
4  GROUPING(Deptno),
5  1, 'All Department Investments : ',
6  'Department "' || TO_CHAR(TO_DATE(Deptno, 'J'), 'JSP') || '"
Investment'
7  ) Departments,
8  TO_CHAR(SUM(Sal), '99G999D99') SalSum
9  FROM Emp
10* GROUP BY ROLLUP(Deptno)
```

DEPARTMENTS	SALSUM
Department "TEN" Investment	8,750.00
Department "TWENTY" Investment	10,875.00
Department "THIRTY" Investment	9,400.00
All Department Investments :	29,025.00

```
SQL> ED
Wrote file afiedt.buf

1  SELECT
2  DECODE
3  (
4  GROUPING(Deptno),
5  1, 'All Department Investments : ',
6  'Department "' || INITCAP(TO_CHAR(TO_DATE(Deptno, 'J'), 'JSP')) || '"
Investment'
7  ) Departments,
8  TO_CHAR(SUM(Sal), '99G999D99') SalSum
9  FROM Emp
10* GROUP BY ROLLUP(Deptno)
SQL> /
```

DEPARTMENTS	SALSUM
-------------	--------

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Department "Ten" Investment	8,750.00
Department "Twenty" Investment	10,875.00
Department "Thirty" Investment	9,400.00
All Department Investments :	29,025.00

SQL> COL Designations FOR A35

```
SQL> SELECT
  2  DECODE
  3  (
  4  GROUPING(Job),
  5  1, 'All Designation Investments ',
  6  'Designation '||Job||''s Investment '
  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.

```
SQL> SELECT
  2  DECODE
  3  (
  4  GROUPING(Deptno),
  5  1, 'All Departments',
  6  Deptno
  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 ROLLUP(Deptno, Job);
```

DEPARTMENTS	DESIGNATIONS
SUM(SAL)	

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```
-----
10                                CLERK
1300
10                                MANAGER
2450
10                                PRESIDENT
5000
10                                All Designations
8750
20                                CLERK
1900
20                                ANALYST
6000
20                                MANAGER
2975
20                                All Designations
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

```
SQL> SELECT
  2  DECODE
  3  (
  4  GROUPING(Deptno),
  5  1 , 'All Departments',
  6  Deptno
  7  ) Departments,
  8  DECODE
  9  (
 10  GROUPING(Job),
 11  1, 'All Designations',
 12  Job
 13  ) Designations,
 14  SUM(Sal)
```

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```
15 FROM Emp
16 GROUP BY CUBE(Deptno, Job)
17 ORDER BY Deptno;
```

DEPARTMENTS SUM(SAL)	DESIGNATIONS
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	
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 SUM(SAL)	DESIGNATIONS
-------------------------	--------------

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All Departments
29025

All Designations

18 rows selected.

SQL> cl scr

```
SQL> SELECT Deptno, SUM(Sal) SalSum
2  FROM Emp
3  GROUP BY Deptno;
```

DEPTNO	SALSUM
30	9400
20	10875
10	8750

SQL> ED
Wrote file afiedt.buf

```
1  SELECT Job, SUM(Sal) SalSum
2  FROM Emp
3* GROUP BY Job
SQL> /
```

JOB	SALSUM
SALESMAN	5600
CLERK	4150
PRESIDENT	5000
MANAGER	8275
ANALYST	6000

SQL> SET AUTOTRACE ON EXPLAIN
SQL> 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)
6  FROM Emp
7* GROUP BY Job
SQL> /
```

DEPTNO	JOB	SALSUM
--------	-----	--------

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```
-----
      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  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time     |
|-----|-----|-----|-----|-----|-----|-----|
| 0   | SELECT STATEMENT   |      | 28    | 630   | 10  (70)| 00:00:01 |
| 1   | SORT UNIQUE        |      | 28    | 630   | 10  (70)| 00:00:01 |
| 2   | UNION-ALL          |      |       |       |       |       |
| 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> SELECT
      2 Deptno,
      3 Job,
```

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```
4 SUM(Sal)
5 FROM Emp
6 GROUP BY GROUPING SETS(Deptno, Job);
```

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

8 rows selected.

Execution Plan

Plan hash value: 126895011

Id	Operation	Name	Rows
Bytes	Cost (%CPU) Time		
0	SELECT STATEMENT		14
448 11 (19) 00:00:01			
1	TEMP TABLE TRANSFORMATION		
2	LOAD AS SELECT	SYS_TEMP_0FD9D660E_CAA88A	
3	TABLE ACCESS FULL	EMP	14
448 3 (0) 00:00:01			
4	LOAD AS SELECT	SYS_TEMP_0FD9D660F_CAA88A	
5	HASH GROUP BY		1
26 3 (34) 00:00:01			
6	TABLE ACCESS FULL	SYS_TEMP_0FD9D660E_CAA88A	1
26 2 (0) 00:00:01			
7	LOAD AS SELECT	SYS_TEMP_0FD9D660F_CAA88A	
8	HASH GROUP BY		1
19 3 (34) 00:00:01			

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```
-----
| 9 | TABLE ACCESS FULL | SYS_TEMP_0FD9D660E_CAA88A | 1 |
19 | 2 (0) | 00:00:01 |
| 10 | VIEW | | 1 |
32 | 2 (0) | 00:00:01 |
| 11 | TABLE ACCESS FULL | SYS_TEMP_0FD9D660F_CAA88A | 1 |
32 | 2 (0) | 00:00:01 |
-----
```

Note

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

```
SQL> COL Deptno FOR 999
SQL> COL MGR FOR 9999
SQL> COL Year FOR 9999
SQL> COL Months FOR A10
SQL> COL Day FOR A10
SQL> COL SUM(Sal) FOR 99999
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 );
```

DEPTNO	JOB	MGR	YEAR	Q	MONTHS	W	DAY	SUM(SAL)
30								9400
20								10875

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10							8750
	SALESMAN						5600
	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	Q	MONTHS	W DAY	SUM(SAL)
			1982				4300
			1981				22825
				1			5250
				3			2750
				4			12750
				2			8275
					September		2750
					December		7750
					January		2400
					June		2450
					November		5000
					April		2975
					February		2850
					May		2850
						1	9775
						3	7400
						2	8050
DEPTNO	JOB	MGR	YEAR	Q	MONTHS	W DAY	SUM(SAL)
						4	3800
						Sunday	1250
						Friday	4450
						Thursday	9925
						Monday	1250
						Wednesday	1900
						Tuesday	8950
						Saturday	1300

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42 rows selected.

Execution Plan

Plan hash value: 3293966853

Id	Operation	Name	Rows
Bytes	Cost (%CPU) Time		
0	SELECT STATEMENT		14
1302	29 (28) 00:00:01		
1	TEMP TABLE TRANSFORMATION		
2	LOAD AS SELECT	SYS_TEMP_0FD9D6612_CAA88A	
3	TABLE ACCESS FULL	EMP	14
756	3 (0) 00:00:01		
4	LOAD AS SELECT	SYS_TEMP_0FD9D6613_CAA88A	
5	HASH GROUP BY		1
26	3 (34) 00:00:01		
6	TABLE ACCESS FULL	SYS_TEMP_0FD9D6612_CAA88A	1
26	2 (0) 00:00:01		
7	LOAD AS SELECT	SYS_TEMP_0FD9D6613_CAA88A	
8	HASH GROUP BY		1
19	3 (34) 00:00:01		
9	TABLE ACCESS FULL	SYS_TEMP_0FD9D6612_CAA88A	1
19	2 (0) 00:00:01		
10	LOAD AS SELECT	SYS_TEMP_0FD9D6613_CAA88A	
11	HASH GROUP BY		1
26	3 (34) 00:00:01		
12	TABLE ACCESS FULL	SYS_TEMP_0FD9D6612_CAA88A	1
26	2 (0) 00:00:01		
13	LOAD AS SELECT	SYS_TEMP_0FD9D6613_CAA88A	
14	HASH GROUP BY		1
17	3 (34) 00:00:01		
15	TABLE ACCESS FULL	SYS_TEMP_0FD9D6612_CAA88A	1
17	2 (0) 00:00:01		
16	LOAD AS SELECT	SYS_TEMP_0FD9D6613_CAA88A	

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```

| 17 |      HASH GROUP BY      |      |      1 |
15 |      3  (34)| 00:00:01 |
| 18 |      TABLE ACCESS FULL  | SYS_TEMP_0FD9D6612_CAA88A |      1 |
15 |      2  (0)| 00:00:01 |
| 19 |      LOAD AS SELECT      | SYS_TEMP_0FD9D6613_CAA88A |      |
|      |      |      |
| 20 |      HASH GROUP BY      |      |      1 |
33 |      3  (34)| 00:00:01 |
| 21 |      TABLE ACCESS FULL  | SYS_TEMP_0FD9D6612_CAA88A |      1 |
33 |      2  (0)| 00:00:01 |
| 22 |      LOAD AS SELECT      | SYS_TEMP_0FD9D6613_CAA88A |      |
|      |      |      |
| 23 |      HASH GROUP BY      |      |      1 |
15 |      3  (34)| 00:00:01 |
| 24 |      TABLE ACCESS FULL  | SYS_TEMP_0FD9D6612_CAA88A |      1 |
15 |      2  (0)| 00:00:01 |
| 25 |      LOAD AS SELECT      | SYS_TEMP_0FD9D6613_CAA88A |      |
|      |      |      |
| 26 |      HASH GROUP BY      |      |      1 |
33 |      3  (34)| 00:00:01 |
| 27 |      TABLE ACCESS FULL  | SYS_TEMP_0FD9D6612_CAA88A |      1 |
33 |      2  (0)| 00:00:01 |
| 28 |      VIEW                |      |      1 |
93 |      2  (0)| 00:00:01 |
| 29 |      TABLE ACCESS FULL  | SYS_TEMP_0FD9D6613_CAA88A |      1 |
93 |      2  (0)| 00:00:01 |

```

Note

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

SQL> SELECT * FROM Emp;

DEPTNO	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM
10	7839	KING	PRESIDENT		17-NOV-81	5000	
30	7698	BLAKE	MANAGER	7839	01-MAY-81	2850	
10	7782	CLARK	MANAGER	7839	09-JUN-81	2450	
20	7566	JONES	MANAGER	7839	02-APR-81	2975	

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```
30      7654 MARTIN      SALESMAN      7698 28-SEP-81      1250      1400
30      7499 ALLEN      SALESMAN      7698 20-FEB-81      1600      300
30      7844 TURNER     SALESMAN      7698 08-SEP-81      1500      0
30      7900 JAMES      CLERK         7698 03-DEC-81      950
30      7521 WARD       SALESMAN      7698 22-FEB-81      1250      500
30      7902 FORD       ANALYST       7566 03-DEC-81      3000
20      7369 SMITH      CLERK         7902 17-DEC-80      800
20      7788 SCOTT      ANALYST       7566 09-DEC-82      3000
20      7876 ADAMS      CLERK         7788 12-JAN-83      1100
20      7934 MILLER     CLERK         7782 23-JAN-82      1300
10
```

14 rows selected.

Execution Plan

Plan hash value: 3956160932

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	1218	3 (0)	00:00:01
1	TABLE ACCESS FULL	EMP	14	1218	3 (0)	00:00:01

Note

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

SQL> cl scr

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Spool File For Oracle Students Trained by Mr.Sathish Yellanki

```
SQL> SET AUTOTRACE OFF EXPLAIN
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
SCOTT	20	RESEARCH
ADAMS	20	RESEARCH
MILLER	10	ACCOUNTING

14 rows selected.

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

ENAME	DEPTNO	DNAME
KING	10	ACCOUNTING

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```
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> 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'
      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.

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

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> ED
Wrote file afiedt.buf
```

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

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Spool File For Oracle Students Trained by Mr.Sathish Yellanki

```
-----
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> ED

Wrote file afiedt.buf

```
1  SELECT
2  Deptno, SUM(Sal) SalSum
3  FROM Emp
4  GROUP BY ROLLUP(Deptno)
5*  HAVING GROUPING(Deptno) &GiveIDX
SQL> /
Enter value for giveidx: = 0
```

```
DEPTNO      SALSUM
-----
30          9400
20         10875
10          8750
```

SQL> /

Enter value for giveidx: = 1

```
DEPTNO      SALSUM
-----
29025
```

SQL> /

Enter value for giveidx: IN(0, 1)

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DEPTNO	SALSUM
10	8750
20	10875
30	9400
	29025

SQL> SPOOL OFF

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