

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

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

DEPTNO	TOTSAL
10	8750
20	10875
30	9400
	29025

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

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

6 rows selected.

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

```
  1  SELECT
  2  Ename,
  3  SUM(Sal)
  4  FROM Emp
  5* GROUP BY ROLLUP(Ename)
```

SQL> /

ENAME	SUM(SAL)
ADAMS	1100

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```
.....
ALLEN                1600
BLAKE                2850
CLARK                2450
FORD                 3000
JAMES                950
JONES                2975
KING                 5000
MARTIN               1250
MILLER               1300
SCOTT                3000
SMITH                800
TURNER               1500
WARD                 1250
                   29025
```

15 rows selected.

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

JOB	JOBSALSUM
ANALYST	6,000.00
CLERK	4,150.00
MANAGER	8,275.00
PRESIDENT	5,000.00
SALESMAN	5,600.00
	29,025.00

6 rows selected.

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

JOB	JOBSALAVG	JOBSALSUM
ANALYST	3,000.00	6,000.00
CLERK	1,037.50	4,150.00

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```
MANAGER      2,758.33      8,275.00
PRESIDENT    5,000.00      5,000.00
SALESMAN      1,400.00      5,600.00
              2,073.21     29,025.00
```

6 rows selected.

```
SQL> ED
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```

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

DEPTNO	JOBSALAVG	JOBSALSUM
10	2,916.67	8,750.00
20	2,175.00	10,875.00
30	1,566.67	9,400.00
	2,073.21	29,025.00

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

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

DEPTNO	JOBSALAVG	STAFF	JOBSALSUM
10	2,916.67	3	8,750.00
20	2,175.00	5	10,875.00
30	1,566.67	6	9,400.00
	2,073.21	14	29,025.00

```
SQL> SELECT * FROM Emp;
```

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COMM	EMPNO	ENAME	DEPTNO	JOB	MGR	HIREDATE	SAL
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
1400	7654	MARTIN	30	SALESMAN	7698	28-SEP-81	1250
300	7499	ALLEN	30	SALESMAN	7698	20-FEB-81	1600
0	7844	TURNER	30	SALESMAN	7698	08-SEP-81	1500
30	7900	JAMES		CLERK	7698	03-DEC-81	950
500	7521	WARD	30	SALESMAN	7698	22-FEB-81	1250
20	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
10	7934	MILLER		CLERK	7782	23-JAN-82	1300

14 rows selected.

```
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);
```

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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 TO_CHAR(SUM(SAL), '99G999D99') SUMSal
  4 FROM Emp
  5* GROUP BY ROLLUP(Deptno)
SQL> /
```

DEPTNO	SUMSAL
10	8,750.00
20	10,875.00
30	9,400.00
All Departments	29,025.00

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

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

13 rows selected.

```
SQL> SET AUTOTRACE ON EXPLAIN
```

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SQL> ED

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```
1  SELECT Deptno, Job, SUM(Sal) Salary
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
SQL> /
```

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
		29025

13 rows selected.

Execution Plan

Plan hash value: 3412076862

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

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```

| 0 | SELECT STATEMENT | | 29 | 825 | 14 (79) |
00:00:01 |
| 1 | SORT UNIQUE | | 29 | 825 | 14 (79) |
00:00:01 |
| 2 | UNION-ALL | | | | |
|
| 3 | HASH GROUP BY | | 14 | 448 | 5 (40) |
00:00:01 |
| 4 | TABLE ACCESS FULL| EMP | 14 | 448 | 3 (0) |
00:00:01 |
| 5 | HASH GROUP BY | | 14 | 364 | 5 (40) |
00:00:01 |
| 6 | TABLE ACCESS FULL| EMP | 14 | 364 | 3 (0) |
00:00:01 |
| 7 | SORT AGGREGATE | | 1 | 13 | 4 (25) |
00:00:01 |
| 8 | TABLE ACCESS FULL| EMP | 14 | 182 | 3 (0) |
00:00:01 |

```

Note

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

```

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
20	MANAGER	2975
20		10875
30	CLERK	950
30	MANAGER	2850
30	SALESMAN	5600

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```
30          9400
          29025
```

13 rows selected.

Execution Plan

Plan hash value: 52302870

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

Note

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

SQL> ED

Wrote file afiedt.buf

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

DEPTNO	JOB	SALARY
20	MANAGER	2975
30	SALESMAN	5600
30	CLERK	950

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```
20 CLERK          1900
10 PRESIDENT      5000
30 MANAGER         2850
10 CLERK           1300
10 MANAGER         2450
20 ANALYST         6000
```

9 rows selected.

Execution Plan

Plan hash value: 4067220884

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

Note

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

```
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

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```
.....
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.

Execution Plan

Plan hash value: 52302870

```
-----
| Id | Operation | Name | Rows | Bytes | Cost (%CPU)| Time |
|----|-----|-----|-----|-----|-----|-----|
| 0 | SELECT STATEMENT | | 14 | 448 | 4 (25)| 00:00:01 |
| 1 | SORT GROUP BY ROLLUP | | 14 | 448 | 4 (25)| 00:00:01 |
| 2 | TABLE ACCESS FULL | EMP | 14 | 448 | 3 (0)| 00:00:01 |
-----
```

Note

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

SQL> COLUMN Deptno FORMAT 99

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  Deptno Deptno,
3  Job Jobs,
```

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```
4 SUM(Sal) Salary
5 FROM Emp
6* GROUP BY Deptno, ROLLUP(Job)
SQL> /
```

DEPTNO	JOBS	SALARY
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.

Execution Plan

Plan hash value: 52302870

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	448	4 (25)	00:00:01
1	SORT GROUP BY ROLLUP		14	448	4 (25)	00:00:01
2	TABLE ACCESS FULL	EMP	14	448	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
2  Deptno Deptno,
3  Job Jobs,
4  SUM(Sal) Salary
5  FROM Emp
6* GROUP BY Job, ROLLUP(Deptno)
SQL> /
```

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

14 rows selected.

Execution Plan

Plan hash value: 52302870

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	448	4 (25)	

00:00:01 |

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```
.....  
| 1 | SORT GROUP BY ROLLUP | 14 | 448 | 4 (25) |  
00:00:01 |  
| 2 | TABLE ACCESS FULL | EMP | 14 | 448 | 3 (0) |  
00:00:01 |  
-----  
-----
```

Note

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

SQL> SPOOL OFF

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