

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

SQL> SELECT SUM(Sal)
2 FROM Emp;

SUM(SAL)
29025

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

DEPTNO	SUM(SAL)
30	9400
20	10875
10	8750

SQL> /
Enter value for giveidx: = 0

DEPTNO	SUM(SAL)
30	9400
20	10875
10	8750

SQL> /
Enter value for giveidx: = 1

DEPTNO	SUM(SAL)
	29025

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

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

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SQL> cl scr

SQL> CONN SYSTEM

Connected.

SQL> GRANT QUERY REWRITE

2 TO SCOTT;

Grant succeeded.

SQL> GRANT

2 CREATE MATERIALIZED VIEW

3 TO SCOTT;

Grant succeeded.

SQL> GRANT ALTER SESSION

2 TO SCOTT;

Grant succeeded.

SQL> CONN SCOTT/tiger

Connected.

SQL> ALTER SESSION

2 SET QUERY_REWRITE_ENABLED = TRUE;

Session altered.

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> SELECT * FROM TAB;

TNAME	TABTYPE	CLUSTERID
BONUS	TABLE	
CUSTOMER	TABLE	
DEPT	TABLE	
DUMMY	TABLE	
EMP	TABLE	
EMP_SUM	TABLE	

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```
ITEM                TABLE
ORD                 TABLE
PRICE               TABLE
PRODUCT             TABLE
SALES                VIEW
SALGRADE             TABLE
SKYESS_BULK_COLLECT_TEST TABLE
SKYESS_EMPLOYEES     TABLE
SKYESS_FORALL_TEST  TABLE
```

15 rows selected.

```
SQL> SET AUTOTRACE ON EXPLAIN
SQL> cl scr
```

```
SQL> SELECT * FROM EMP_SUM;
```

DEPTNO	JOB	SUM(SAL)
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: 2108572782

Id	Operation	Name	Rows	Bytes	Cost (%CPU)
0	SELECT STATEMENT		9	288	3 (0)
1	MAT_VIEW ACCESS FULL	EMP_SUM	9	288	3 (0)

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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	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: 825659509

Id	Operation	Name	Rows	Bytes	Cost
(%CPU)	Time				
0	SELECT STATEMENT		9	288	4
(25)	00:00:01				
1	SORT ORDER BY		9	288	4
(25)	00:00:01				
2	MAT_VIEW REWRITE ACCESS FULL	EMP_SUM	9	288	3
(0)	00:00:01				

Note

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

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

DEPTNO	SUM(SAL)
30	9400
20	10875
10	8750

Execution Plan

Plan hash value: 2751693713

Id	Operation	Name	Rows	Bytes	Cost
(%CPU)	Time				
0	SELECT STATEMENT		9	234	4
(25)	00:00:01				
1	HASH GROUP BY		9	234	4
(25)	00:00:01				
2	MAT_VIEW REWRITE ACCESS FULL	EMP_SUM	9	234	3
(0)	00:00:01				

Note

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

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

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

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ANALYST 6000

Execution Plan

Plan hash value: 2751693713

Id	Operation	Name	Rows	Bytes	Cost
(%CPU)	Time				
0	SELECT STATEMENT		9	171	4
(25)	00:00:01				
1	HASH GROUP BY		9	171	4
(25)	00:00:01				
2	MAT_VIEW REWRITE ACCESS FULL	EMP_SUM	9	171	3
(0)	00:00:01				

Note

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

SQL> SELECT SUM(Sal)
2 FROM Emp;

SUM(SAL)

29025

Execution Plan

Plan hash value: 4050022887

Id	Operation	Name	Rows	Bytes	Cost
(%CPU)	Time				
0	SELECT STATEMENT		1	13	3
(0)	00:00:01				

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```
-----
| 1 | SORT AGGREGATE | | 1 | 13 |
| 2 | MAT_VIEW REWRITE ACCESS FULL| EMP_SUM | 9 | 117 | 3
(0) | 00:00:01 |
-----
```

Note

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

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

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

Execution Plan

Plan hash value: 2868327837

```
-----
| Id | Operation | Name | Rows | Bytes | Cost
(%CPU) | Time |
-----
| 0 | SELECT STATEMENT | | 9 | 234 | 4
(25) | 00:00:01 |
| 1 | SORT GROUP BY ROLLUP | | 9 | 234 | 4
(25) | 00:00:01 |
| 2 | MAT_VIEW REWRITE ACCESS FULL| EMP_SUM | 9 | 234 | 3
(0) | 00:00:01 |
-----
```

Note

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

```
SQL> ED
-----
```

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Wrote file afiedt.buf

```
1  SELECT Job, SUM(Sal)
2  FROM Emp
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

Id	Operation	Name	Rows	Bytes	Cost
0	SELECT STATEMENT		9	171	4
(25)	00:00:01				
1	SORT GROUP BY ROLLUP		9	171	4
(25)	00:00:01				
2	MAT_VIEW REWRITE ACCESS FULL	EMP_SUM	9	171	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)
2  FROM Emp
```

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```
3* GROUP BY ROLLUP(Deptno, Job)
SQL> /
```

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

Id	Operation	Name	Rows	Bytes	Cost
0	SELECT STATEMENT		9	288	4
(25)	00:00:01				
1	SORT GROUP BY ROLLUP		9	288	4
(25)	00:00:01				
2	MAT_VIEW REWRITE ACCESS FULL	EMP_SUM	9	288	3
(0)	00:00:01				

Note

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

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

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

DEPTNO	JOB	SUM(SAL)
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	SUM(SAL)
		29025

18 rows selected.

Execution Plan

Plan hash value: 1797585325

Id	Operation	Name	Rows	Bytes	Cost
(%CPU)	Time				
0	SELECT STATEMENT		9	288	4
(25)	00:00:01				

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```
-----
| 1 | SORT GROUP BY | | 9 | 288 | 4
(25)| 00:00:01 |
| 2 | GENERATE CUBE | | 9 | 288 | 4
(25)| 00:00:01 |
| 3 | SORT GROUP BY | | 9 | 288 | 4
(25)| 00:00:01 |
| 4 | MAT_VIEW REWRITE ACCESS FULL| EMP_SUM | 9 | 288 | 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)
2 FROM Emp
3 GROUP BY GROUPING SETS(Deptno, Job)
4* ORDER BY Deptno
SQL> /
```

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

8 rows selected.

Execution Plan

Plan hash value: 3591706503

Id	Operation	Name	Rows
Bytes	Cost (%CPU)	Time	

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```

-----
| 0 | SELECT STATEMENT | | 9 |
288 | 12 (25)| 00:00:01 |
| 1 | TEMP TABLE TRANSFORMATION | | |
| 2 | LOAD AS SELECT | SYS_TEMP_0FD9D6620_CAA88A |
| 3 | MAT_VIEW ACCESS FULL | EMP_SUM | 9 |
288 | 3 (0)| 00:00:01 |
| 4 | LOAD AS SELECT | SYS_TEMP_0FD9D6621_CAA88A |
| 5 | HASH GROUP BY | | 1 |
26 | 3 (34)| 00:00:01 |
| 6 | TABLE ACCESS FULL | SYS_TEMP_0FD9D6620_CAA88A | 1 |
26 | 2 (0)| 00:00:01 |
| 7 | LOAD AS SELECT | SYS_TEMP_0FD9D6621_CAA88A |
| 8 | HASH GROUP BY | | 1 |
19 | 3 (34)| 00:00:01 |
| 9 | TABLE ACCESS FULL | SYS_TEMP_0FD9D6620_CAA88A | 1 |
19 | 2 (0)| 00:00:01 |
| 10 | SORT ORDER BY | | 9 |
288 | 3 (34)| 00:00:01 |
| 11 | VIEW | | 1 |
32 | 2 (0)| 00:00:01 |
| 12 | TABLE ACCESS FULL | SYS_TEMP_0FD9D6621_CAA88A | 1 |
32 | 2 (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)
2 FROM Emp
3* GROUP BY Job, ROLLUP(Deptno)
SQL> /

```

DEPTNO	JOB	SUM(SAL)
10	CLERK	1300
20	CLERK	1900

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```
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: 2868327837

Id	Operation	Name	Rows	Bytes	Cost
0	SELECT STATEMENT		9	288	4
(25)	00:00:01				
1	SORT GROUP BY ROLLUP		9	288	4
(25)	00:00:01				
2	MAT_VIEW REWRITE ACCESS FULL	EMP_SUM	9	288	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)
2 FROM Emp
3* GROUP BY Deptno, ROLLUP(Job)
SQL> /
```

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```
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.

Execution Plan

Plan hash value: 2868327837

```
-----
```

Id	Operation	Name	Rows	Bytes	Cost
(%CPU)	Time				
0	SELECT STATEMENT		9	288	4
(25)	00:00:01				
1	SORT GROUP BY ROLLUP		9	288	4
(25)	00:00:01				
2	MAT_VIEW REWRITE ACCESS FULL	EMP_SUM	9	288	3
(0)	00:00:01				

```
-----
```

Note

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

SQL> SPOOL OFF

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