

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

SQL> SET AUTOTRACE ON EXPLAIN

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

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

Execution Plan

Plan hash value: 4067220884

| Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time |
|----|-------------------|------|------|-------|-------------|----------|
| 0 | SELECT STATEMENT | | 14 | 364 | 4 (25) | 00:00:01 |
| 1 | HASH GROUP BY | | 14 | 364 | 4 (25) | 00:00:01 |
| 2 | TABLE ACCESS FULL | EMP | 14 | 364 | 3 (0) | 00:00:01 |

Note

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

SQL> ED

Wrote file afiedt.buf

1 SELECT SUM(Sal) SalSum
2* FROM Emp
SQL> /

| SALSUM |
|--------|
| 29025 |

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Execution Plan

Plan hash value: 2083865914

| Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time |
|----|-------------------|------|------|-------|-------------|----------|
| 0 | SELECT STATEMENT | | 1 | 13 | 3 (0) | 00:00:01 |
| 1 | SORT AGGREGATE | | 1 | 13 | | |
| 2 | TABLE ACCESS FULL | EMP | 14 | 182 | 3 (0) | 00:00:01 |

Note

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

SQL> ED

Wrote file afiedt.buf

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

| DEPTNO | SALSUM | ORGSAL |
|--------|--------|--------|
| 10 | 8750 | 29025 |
| 20 | 10875 | 29025 |
| 30 | 9400 | 29025 |

Execution Plan

Plan hash value: 3003679369

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| Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time |
|----|-------------------|------|------|-------|-------------|----------|
| 0 | SELECT STATEMENT | | 14 | 546 | 7 (15) | 00:00:01 |
| 1 | HASH GROUP BY | | 14 | 546 | 7 (15) | 00:00:01 |
| 2 | NESTED LOOPS | | 14 | 546 | 6 (0) | 00:00:01 |
| 3 | VIEW | | 1 | 13 | 3 (0) | 00:00:01 |
| 4 | SORT AGGREGATE | | 1 | 13 | | |
| 5 | TABLE ACCESS FULL | EMP | 14 | 182 | 3 (0) | 00:00:01 |
| 6 | TABLE ACCESS FULL | EMP | 14 | 364 | 3 (0) | 00:00:01 |

Note

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

SQL> ED

Wrote file afiedt.buf

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

| DEPTNO | SALSUM | ORGSAL |
|--------|--------|--------|
| 30 | 9400 | 29025 |
| 20 | 10875 | 29025 |
| 10 | 8750 | 29025 |

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Execution Plan

Plan hash value: 2065184867

| Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time |
|----|-------------------|------|------|-------|-------------|----------|
| 0 | SELECT STATEMENT | | 14 | 364 | 4 (25) | 00:00:01 |
| 1 | SORT AGGREGATE | | 1 | 13 | | |
| 2 | TABLE ACCESS FULL | EMP | 14 | 182 | 3 (0) | 00:00:01 |
| 3 | HASH GROUP BY | | 14 | 364 | 4 (25) | 00:00:01 |
| 4 | TABLE ACCESS FULL | EMP | 14 | 364 | 3 (0) | 00:00:01 |

Note

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

SQL> ED

Wrote file afiedt.buf

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

| DEPTNO | SALSUM |
|--------|--------|
| 10 | 8750 |
| 20 | 10875 |
| 30 | 9400 |
| | 29025 |

Execution Plan

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Plan hash value: 768573151

| Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time |
|----|-------------------|------|------|-------|-------------|----------|
| 0 | SELECT STATEMENT | | 15 | 377 | 9 (67) | 00:00:01 |
| 1 | SORT UNIQUE | | 15 | 377 | 9 (67) | 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 | SORT AGGREGATE | | 1 | 13 | 4 (25) | 00:00:01 |
| 6 | TABLE ACCESS FULL | EMP | 14 | 182 | 3 (0) | 00:00:01 |

Note

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

SQL> ED

Wrote file afiedt.buf

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

| DEPTNO | SALSUM |
|--------|--------|
| 10 | 8750 |
| 20 | 10875 |
| 30 | 9400 |
| | 29025 |

Execution Plan

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Plan hash value: 52302870

| Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time |
|----|----------------------|------|------|-------|-------------|----------|
| 0 | SELECT STATEMENT | | 14 | 364 | 4 (25) | 00:00:01 |
| 1 | SORT GROUP BY ROLLUP | | 14 | 364 | 4 (25) | 00:00:01 |
| 2 | TABLE ACCESS FULL | EMP | 14 | 364 | 3 (0) | 00:00:01 |

Note

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

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

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

| JOB | SALSUM |
|-----------|--------|
| ANALYST | 6000 |
| CLERK | 4150 |
| MANAGER | 8275 |
| PRESIDENT | 5000 |
| SALESMAN | 5600 |
| | 29025 |

6 rows selected.

Execution Plan

Plan hash value: 52302870

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| Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time |
|----|----------------------|------|------|-------|-------------|----------|
| 0 | SELECT STATEMENT | | 14 | 266 | 4 (25) | 00:00:01 |
| 1 | SORT GROUP BY ROLLUP | | 14 | 266 | 4 (25) | 00:00:01 |
| 2 | 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 Ename, SUM(Sal) SalSum
2  FROM Emp
3* GROUP BY ROLLUP(Ename)
SQL> /
```

| ENAME | SALSUM |
|--------|--------|
| ADAMS | 1100 |
| 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.

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Execution Plan

Plan hash value: 52302870

| Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time |
|----|----------------------|------|------|-------|-------------|----------|
| 0 | SELECT STATEMENT | | 14 | 280 | 4 (25) | 00:00:01 |
| 1 | SORT GROUP BY ROLLUP | | 14 | 280 | 4 (25) | 00:00:01 |
| 2 | TABLE ACCESS FULL | EMP | 14 | 280 | 3 (0) | 00:00:01 |

Note

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

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.

Execution Plan

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Plan hash value: 52302870

| Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time |
|----|----------------------|------|------|-------|-------------|----------|
| 0 | SELECT STATEMENT | | 14 | 266 | 4 (25) | 00:00:01 |
| 1 | SORT GROUP BY ROLLUP | | 14 | 266 | 4 (25) | 00:00:01 |
| 2 | 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
2  Job,
3  TO_CHAR(SUM(Sal), '99G999D99') JobSalSum
4  FROM Emp
5* GROUP BY ROLLUP(Job)
SQL> /
```

| 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.

Execution Plan

Plan hash value: 52302870

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```
-----
| Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time |
|-----|-----|-----|-----|-----|-----|-----|
| 0 | SELECT STATEMENT | | 14 | 266 | 4 (25) | 00:00:01 |
| 1 | SORT GROUP BY ROLLUP | | 14 | 266 | 4 (25) | 00:00:01 |
| 2 | 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 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 |

Execution Plan

Plan hash value: 52302870

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

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```
-----
| 0 | SELECT STATEMENT | | 14 | 364 | 4 (25) |
00:00:01 |
| 1 | SORT GROUP BY ROLLUP | | 14 | 364 | 4 (25) |
00:00:01 |
| 2 | TABLE ACCESS FULL | EMP | 14 | 364 | 3 (0) |
00:00:01 |
-----
```

Note

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

SQL> SPOOL OFF

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