

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

SQL> SHOW USER

USER is "SCOTT"

SQL> CREATE SYNONYM Employee

2 FOR SCOTT.Emp;

CREATE SYNONYM Employee

*

ERROR at line 1:

ORA-01031: insufficient privileges

SQL> CONN SYSTEM

Connected.

SQL> GRANT CREATE SYNONYM

2 TO SCOTT;

Grant succeeded.

SQL> CONN SCOTT/tiger

Connected.

SQL> CREATE SYNONYM Employee

2 FOR SCOTT.Emp;

Synonym created.

SQL> SELECT * FROM TAB;

TNAME	TABTYPE	CLUSTERID
BONUS	TABLE	
CUSTOMER	TABLE	
DEPT	TABLE	
DEPT10	TABLE	
DUMMY	TABLE	
EMP	TABLE	
EMPLOYEE	SYNONYM	
ITEM	TABLE	
MYAUDIT	TABLE	
ORD	TABLE	
PRICE	TABLE	
PRODUCT	TABLE	
SALES	VIEW	
SALGRADE	TABLE	
TRAPPEDMESSAGES	TABLE	

15 rows selected.

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```
SQL> DESC Emp
Name                                                    Null?
Type
-----
EMPNO                                                    NOT
NULL NUMBER(4)
ENAME
VARCHAR2(10)
JOB
VARCHAR2(9)
MGR
NUMBER(4)
HIREDATE
DATE
SAL
NUMBER(7,2)
COMM
NUMBER(7,2)
DEPTNO                                                    NOT
NULL NUMBER(2)

SQL> DESC Employee
Name                                                    Null?
Type
-----
EMPNO                                                    NOT
NULL NUMBER(4)
ENAME
VARCHAR2(10)
JOB
VARCHAR2(9)
MGR
NUMBER(4)
HIREDATE
DATE
SAL
NUMBER(7,2)
COMM
NUMBER(7,2)
DEPTNO                                                    NOT
NULL NUMBER(2)

SQL> SELECT * FROM Emp;
```

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COMM	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
		DEPTNO				
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	SALESMAN	7698	28-SEP-81	1250
300	7499	ALLEN	SALESMAN	7698	20-FEB-81	1600
0	7844	TURNER	SALESMAN	7698	08-SEP-81	1500
30	7900	JAMES	CLERK	7698	03-DEC-81	950
500	7521	WARD	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 * FROM Employee;

COMM	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
		DEPTNO				
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

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```
.....
      7566 JONES      MANAGER      7839 02-APR-81      2975
20
      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.

```
SQL> CONN DBASEC/DBASEC
Connected.
```

```
SQL> SELECT * FROM Employee;
SELECT * FROM Employee
      *
```

```
ERROR at line 1:
ORA-00942: table or view does not exist
```

```
SQL> SELECT * FROM SCOTT.Employee;
SELECT * FROM SCOTT.Employee
      *
```

```
ERROR at line 1:
ORA-00942: table or view does not exist
```

```
SQL> CONN SCOTT/tiger
Connected.
```

```
SQL> GRANT SELECT
      2 ON Employee
      3 TO DBASEC;
```

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Grant succeeded.

SQL> CONN DBASEC/DBASEC

Connected.

SQL> SELECT * FROM SCOTT.Employee;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
COMM	DEPTNO				
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	SALESMAN	7698	28-SEP-81	1250
	30				
300	7499 ALLEN	SALESMAN	7698	20-FEB-81	1600
	30				
0	7844 TURNER	SALESMAN	7698	08-SEP-81	1500
	30				
30	7900 JAMES	CLERK	7698	03-DEC-81	950
500	7521 WARD	SALESMAN	7698	22-FEB-81	1250
	30				
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 * FROM Employee;

SELECT * FROM Employee

*

ERROR at line 1:

ORA-00942: table or view does not exist

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SQL> cl scr

SQL> CONN SCOTT/tiger
Connected.

SQL> CREATE PUBLIC SYNONYM Employee
2 FOR SCOTT.Emp;
CREATE PUBLIC SYNONYM Employee
*

ERROR at line 1:
ORA-01031: insufficient privileges

SQL> CONN SYSTEM
Connected.
SQL> GRANT CREATE PUBLIC SYNONYM
2 TO SCOTT;

Grant succeeded.

SQL> CONN SCOTT/tiger
Connected.
SQL> CREATE PUBLIC SYNONYM Employee
2 FOR SCOTT.Emp;

Synonym created.

SQL> CONN DBASEC/DBASEC
Connected.
SQL> SELECT * FROM Employee;

COMM	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
		DEPTNO				
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	SALESMAN	7698	28-SEP-81	1250
300	7499	ALLEN	SALESMAN	7698	20-FEB-81	1600

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```
.....
      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.

SQL> SELECT * FROM TAB;

no rows selected

SQL> DROP TABLE Employee;
DROP TABLE Employee
*

ERROR at line 1:
ORA-00942: table or view does not exist

SQL> DROP SYNONYM Employee;
DROP SYNONYM Employee
*

ERROR at line 1:
ORA-01434: private synonym to be dropped does not exist

SQL> DROP PUBLIC SYNONYM Employee;
DROP PUBLIC SYNONYM Employee
*

ERROR at line 1:
ORA-01031: insufficient privileges

SQL> cl scr

SQL> CONN SCOTT/tiger

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Connected.

SQL> cl scr

SQL> SET AUTOTRACE ON EXPLAIN

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: 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)

2* FROM Emp

SQL> /

SUM(SAL)

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29025

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

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```
1  SELECT Deptno, SUM(Sal), OrgSal
2  FROM Emp,
3  (
4  SELECT SUM(Sal) OrgSal
5  FROM Emp
6  )
7* GROUP BY Deptno, OrgSal
8  /
```

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

Execution Plan

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Plan hash value: 3003679369

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

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

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

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Execution Plan

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)
2  FROM Emp
3*  GROUP BY ROLLUP (Deptno)
SQL> /
```

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

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Execution Plan

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 Ename, SUM(Sal)
2  FROM Emp
3* GROUP BY ROLLUP(Ename)
SQL> /
```

ENAME	SUM(SAL)
ADAMS	1100
ALLEN	1600
BLAKE	2850
CLARK	2450
FORD	3000
JAMES	950
JONES	2975
KING	5000
MARTIN	1250
MILLER	1300
SCOTT	3000
SMITH	800

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```
TURNER          1500
WARD            1250
                29025
```

15 rows selected.

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> ED

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

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6 rows selected.

Execution Plan

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> cl scr

SQL> COL JobSalSum FOR A12

SQL> COL JobSalAvg FOR A12

SQL> 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);
```

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.

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Execution Plan

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> cl scr

```
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

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```
-----
| 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> COLUMN Deptno FORMAT A15

SQL> SELECT

```
2 NVL(TO_CHAR(Deptno), 'All Departments') Deptno,
3 SUM(SAL) SUMSal
4 FROM Emp
5 GROUP BY ROLLUP(Deptno);
```

DEPTNO	SUMSAL
10	8750
20	10875
30	9400
All Departments	29025

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> cl scr

SQL> COL "Year" FOR A6

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
1981	22825
1982	4300
1983	1100
	29025

Execution Plan

Plan hash value: 52302870

```
-----
| Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time |
|-----|-----|-----|-----|-----|-----|-----|
| 0 | SELECT STATEMENT | | 14 | 308 | 4 (25) | 00:00:01 |
| 1 | SORT GROUP BY ROLLUP | | 14 | 308 | 4 (25) | 00:00:01 |
| 2 | TABLE ACCESS FULL | EMP | 14 | 308 | 3 (0) | 00:00:01 |
-----
```

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Note

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

SQL> cl scr

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
		29025

13 rows selected.

Execution Plan

Plan hash value: 52302870

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

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```
.....
| 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
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.

Execution Plan

Plan hash value: 15469362

--

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Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	448	4 (25)	00:00:01
1	SORT 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> 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

Execution Plan

Plan hash value: 15469362

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	364	4 (25)	00:00:01

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```
-----
| 1 | SORT 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
2 SUM(Sal) Salary
3* FROM Emp
4 /
```

SALARY

29025

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)

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SQL> ED

Wrote file afiedt.buf

```
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
0	SELECT STATEMENT		29	825	14 (79)	

00:00:01 |

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```

-----
| 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> 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

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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> SPOOL OFF

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