

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

```
SQL> SELECT Empno, Ename, Deptno, Sal, Job
2 FROM Emp
3 /
```

EMPNO	ENAME	DEPTNO	SAL	JOB
7839	KING	10	5000	PRESIDENT
7698	BLAKE	30	2850	MANAGER
7782	CLARK	10	2450	MANAGER
7566	JONES	20	2975	MANAGER
7654	MARTIN	30	1250	SALESMAN
7499	ALLEN	30	1600	SALESMAN
7844	TURNER	30	1500	SALESMAN
7900	JAMES	30	950	CLERK
7521	WARD	30	1250	SALESMAN
7902	FORD	20	3000	ANALYST
7369	SMITH	20	800	CLERK
7788	SCOTT	20	3000	ANALYST
7876	ADAMS	20	1100	CLERK
7934	MILLER	10	1300	CLERK

14 rows selected.

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

```
1 SELECT *
2 FROM
3 (
4 SELECT Empno, Ename, Deptno, Sal, Job
5 FROM Emp
6* )
SQL> /
```

EMPNO	ENAME	DEPTNO	SAL	JOB
7839	KING	10	5000	PRESIDENT
7698	BLAKE	30	2850	MANAGER
7782	CLARK	10	2450	MANAGER
7566	JONES	20	2975	MANAGER
7654	MARTIN	30	1250	SALESMAN
7499	ALLEN	30	1600	SALESMAN
7844	TURNER	30	1500	SALESMAN
7900	JAMES	30	950	CLERK
7521	WARD	30	1250	SALESMAN

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```
7902 FORD                20          3000 ANALYST
7369 SMITH               20           800 CLERK
7788 SCOTT               20          3000 ANALYST
7876 ADAMS               20          1100 CLERK
7934 MILLER              10          1300 CLERK
```

14 rows selected.

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

```
1  SELECT E1.*
2  FROM
3  (
4    SELECT Empno, Ename, Deptno, Sal, Comm, Job
5    FROM Emp
6*  ) E1 --Virtual Table OR Virtual Object OR In-Line View OR
Correlation Table
SQL> /
```

EMPNO	ENAME	DEPTNO	SAL	COMM	JOB
7839	KING	10	5000		PRESIDENT
7698	BLAKE	30	2850		MANAGER
7782	CLARK	10	2450		MANAGER
7566	JONES	20	2975		MANAGER
7654	MARTIN	30	1250	1400	SALESMAN
7499	ALLEN	30	1600	300	SALESMAN
7844	TURNER	30	1500	0	SALESMAN
7900	JAMES	30	950		CLERK
7521	WARD	30	1250	500	SALESMAN
7902	FORD	20	3000		ANALYST
7369	SMITH	20	800		CLERK
7788	SCOTT	20	3000		ANALYST
7876	ADAMS	20	1100		CLERK
7934	MILLER	10	1300		CLERK

14 rows selected.

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

```
1  SELECT E1.Ename, E1.Deptno, E1.Sal, E1.Comm, E1.Sal + NVL(E1.Comm,
0) TotSal
2  FROM
3  (
4    SELECT Empno, Ename, Deptno, Sal, Comm, Job
```

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```
5 FROM Emp
6* ) E1 --Virtual Table OR Virtual Object OR In-Line View OR
Correlation Table
SQL> /
```

ENAME	DEPTNO	SAL	COMM	TOTSAL
KING	10	5000		5000
BLAKE	30	2850		2850
CLARK	10	2450		2450
JONES	20	2975		2975
MARTIN	30	1250	1400	2650
ALLEN	30	1600	300	1900
TURNER	30	1500	0	1500
JAMES	30	950		950
WARD	30	1250	500	1750
FORD	20	3000		3000
SMITH	20	800		800
SCOTT	20	3000		3000
ADAMS	20	1100		1100
MILLER	10	1300		1300

14 rows selected.

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

```
1 SELECT E1.Ename, E1.Deptno, E1.Sal, E1.Comm, E1.Sal + NVL(E1.Comm,
0) TotSal
2 FROM
3 (
4 SELECT Empno, Ename, Deptno, Sal, Comm, Job
5 FROM Emp
6 ) E1
7* WHERE E1.Sal + NVL(E1.Comm, 0) > 2500
SQL> /
```

ENAME	DEPTNO	SAL	COMM	TOTSAL
KING	10	5000		5000
BLAKE	30	2850		2850
JONES	20	2975		2975
MARTIN	30	1250	1400	2650
FORD	20	3000		3000
SCOTT	20	3000		3000

6 rows selected.

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```
1  SELECT E1.Ename, E1.Deptno, E1.Sal, E1.Comm, TotSal
2  FROM
3  (
4  SELECT Empno, Ename, Deptno, Sal, Comm, Sal + NVL(Comm, 0) TotSal
5  FROM Emp
6  ) E1
7* WHERE TotSal > 2500
SQL> /
```

ENAME	DEPTNO	SAL	COMM	TOTSAL
KING	10	5000		5000
BLAKE	30	2850		2850
JONES	20	2975		2975
MARTIN	30	1250	1400	2650
FORD	20	3000		3000
SCOTT	20	3000		3000

6 rows selected.

SQL> ED
Wrote file afiedt.buf

```
1  SELECT E1.Ename, E1.Deptno, E1.Sal, E1.Comm, TotSal
2  FROM
3  (
4  SELECT
5      Empno,
6      Ename,
7      Deptno,
8      Sal,
9      Comm,
10     Sal + NVL(Comm, 0) TotSal
11  FROM Emp
12  ) E1
13  WHERE E1.Deptno =
14  (
15  SELECT Deptno
16  FROM Dept
17  WHERE Dname = 'SALES'
18* )
SQL> /
```

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ENAME	DEPTNO	SAL	COMM	TOTSAL
BLAKE	30	2850		2850
MARTIN	30	1250	1400	2650
ALLEN	30	1600	300	1900
TURNER	30	1500	0	1500
JAMES	30	950		950
WARD	30	1250	500	1750

6 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT E1.Ename, E1.Deptno, E1.Sal, E1.Comm, TotSal
2  FROM
3  (
4  SELECT
5      Empno,
6      Ename,
7      Deptno,
8      Sal,
9      Comm,
10     Sal + NVL(Comm, 0) TotSal
11  FROM Emp
12  ) E1
13  WHERE E1.Deptno =
14  (
15  SELECT Deptno
16  FROM Dept
17  WHERE Dname = 'SALES'
18  ) AND
19* TotSal > 2850
SQL> /
```

no rows selected

SQL> ED

Wrote file afiedt.buf

```
1  SELECT E1.Ename, E1.Deptno, E1.Sal, E1.Comm, TotSal
2  FROM
3  (
4  SELECT
5      Empno,
6      Ename,
7      Deptno,
```

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```
8      Sal,
9      Comm,
10     Sal + NVL(Comm, 0) TotSal
11 FROM Emp
12 ) E1
13 WHERE E1.Deptno =
14 (
15  SELECT Deptno
16  FROM Dept
17  WHERE Dname = 'SALES'
18 ) AND
19* TotSal > 1600
SQL> /
```

ENAME	DEPTNO	SAL	COMM	TOTSAL
BLAKE	30	2850		2850
MARTIN	30	1250	1400	2650
ALLEN	30	1600	300	1900
WARD	30	1250	500	1750

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

```
1  SELECT E1.Ename, E1.Deptno, E1.Sal, E1.Comm, TotSal
2  FROM
3  (
4  SELECT
5      Empno,
6      Ename,
7      Deptno,
8      Sal,
9      Comm,
10     Sal + NVL(Comm, 0) TotSal
11  FROM Emp
12  WHERE Deptno =
13  (
14  SELECT Deptno
15  FROM Dept
16  WHERE Dname = 'SALES'
17  )
18  ) E1
19* WHERE TotSal > 1600
SQL> /
```

ENAME	DEPTNO	SAL	COMM	TOTSAL
-------	--------	-----	------	--------

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```
BLAKE          30          2850          2850
MARTIN          30          1250          1400          2650
ALLEN           30          1600           300          1900
WARD            30          1250           500          1750
```

SQL> cl scr

```
SQL> SELECT Ename, Deptno, Sal, Job
2  FROM Emp;
```

ENAME	DEPTNO	SAL	JOB
KING	10	5000	PRESIDENT
BLAKE	30	2850	MANAGER
CLARK	10	2450	MANAGER
JONES	20	2975	MANAGER
MARTIN	30	1250	SALESMAN
ALLEN	30	1600	SALESMAN
TURNER	30	1500	SALESMAN
JAMES	30	950	CLERK
WARD	30	1250	SALESMAN
FORD	20	3000	ANALYST
SMITH	20	800	CLERK
SCOTT	20	3000	ANALYST
ADAMS	20	1100	CLERK
MILLER	10	1300	CLERK

14 rows selected.

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

DEPTNO	SALAVG
30	1566.66667
20	2175
10	2916.66667

SQL> cl scr

```
SQL> SELECT E.Ename, E.Sal, E.Deptno, El.SalAvg
2  FROM Emp E,
3  (
4  SELECT Deptno, AVG(Sal) SalAvg
5  FROM Emp
6  GROUP BY Deptno
```

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```
7 ) E1
8 WHERE E.Deptno = E1.Deptno;
```

ENAME	SAL	DEPTNO	SALAVG
WARD	1250	30	1566.66667
JAMES	950	30	1566.66667
TURNER	1500	30	1566.66667
ALLEN	1600	30	1566.66667
MARTIN	1250	30	1566.66667
BLAKE	2850	30	1566.66667
ADAMS	1100	20	2175
SCOTT	3000	20	2175
SMITH	800	20	2175
FORD	3000	20	2175
JONES	2975	20	2175
MILLER	1300	10	2916.66667
CLARK	2450	10	2916.66667
KING	5000	10	2916.66667

14 rows selected.

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

```
1 SELECT
2 E.Ename,
3 TO_CHAR(E.Sal, '9G999D99') Sal,
4 E.Deptno,
5 TO_CHAR(E1.SalAvg, '99G999D99') SalAvg
6 FROM Emp E,
7 (
8 SELECT Deptno, AVG(Sal) SalAvg
9 FROM Emp
10 GROUP BY Deptno
11 ) E1
12* WHERE E.Deptno = E1.Deptno
SQL> /
```

ENAME	SAL	DEPTNO	SALAVG
WARD	1,250.00	30	1,566.67
JAMES	950.00	30	1,566.67
TURNER	1,500.00	30	1,566.67
ALLEN	1,600.00	30	1,566.67
MARTIN	1,250.00	30	1,566.67
BLAKE	2,850.00	30	1,566.67

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ADAMS	1,100.00	20	2,175.00
SCOTT	3,000.00	20	2,175.00
SMITH	800.00	20	2,175.00
FORD	3,000.00	20	2,175.00
JONES	2,975.00	20	2,175.00
MILLER	1,300.00	10	2,916.67
CLARK	2,450.00	10	2,916.67
KING	5,000.00	10	2,916.67

14 rows selected.

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

DEPTNO	SALAVG
30	1566.66667
20	2175
10	2916.66667

```
SQL> cl scr
```

```
SQL> SELECT E.Ename, E.Sal, E.Deptno, El.SalAvg
2 FROM Emp E,
3 (
4 SELECT Deptno, AVG(Sal) SalAvg
5 FROM Emp
6 GROUP BY Deptno
7 ) El
8 WHERE E.Deptno = El.Deptno AND
9 E.Sal > El.SalAvg;
```

ENAME	SAL	DEPTNO	SALAVG
ALLEN	1600	30	1566.66667
BLAKE	2850	30	1566.66667
SCOTT	3000	20	2175
FORD	3000	20	2175
JONES	2975	20	2175
KING	5000	10	2916.66667

6 rows selected.

```
SQL> ED
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```

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```
1 SELECT E.Ename, E.Sal, E.Deptno, El.SalAvg, El.SalSum, El.Staff
2 FROM Emp E,
3 (
4 SELECT
5 Deptno,
6 SUM(Sal) SalSum,
7 COUNT(*) Staff,
8 AVG(Sal) SalAvg
9 FROM Emp
10 GROUP BY Deptno
11 ) El
12* WHERE E.Deptno = El.Deptno
SQL> /
```

ENAME	SAL	DEPTNO	SALAVG	SALSUM	STAFF
WARD	1250	30	1566.66667	9400	6
JAMES	950	30	1566.66667	9400	6
TURNER	1500	30	1566.66667	9400	6
ALLEN	1600	30	1566.66667	9400	6
MARTIN	1250	30	1566.66667	9400	6
BLAKE	2850	30	1566.66667	9400	6
ADAMS	1100	20	2175	10875	5
SCOTT	3000	20	2175	10875	5
SMITH	800	20	2175	10875	5
FORD	3000	20	2175	10875	5
JONES	2975	20	2175	10875	5
MILLER	1300	10	2916.66667	8750	3
CLARK	2450	10	2916.66667	8750	3
KING	5000	10	2916.66667	8750	3

14 rows selected.

SQL> cl scr

```
SQL> SELECT
2 E.Ename,
3 E.Sal,
4 E.Deptno,
5 ROUND(El.SalAvg, 2) DeptAvgSal,
6 ROUND(E.Sal - El.SalAvg) DiffSalAvg
7 FROM Emp E,
8 (
9 SELECT Deptno, AVG(Sal) SalAvg
10 FROM Emp
11 GROUP BY Deptno
12 ) El
```

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```
13 WHERE E.Deptno = E1.Deptno
14 ORDER BY Deptno
15 /
```

ENAME	SAL	DEPTNO	DEPTAVGSAL	DIFFSALAVG
KING	5000	10	2916.67	2083
CLARK	2450	10	2916.67	-467
MILLER	1300	10	2916.67	-1617
JONES	2975	20	2175	800
FORD	3000	20	2175	825
SMITH	800	20	2175	-1375
SCOTT	3000	20	2175	825
ADAMS	1100	20	2175	-1075
BLAKE	2850	30	1566.67	1283
MARTIN	1250	30	1566.67	-317
ALLEN	1600	30	1566.67	33
TURNER	1500	30	1566.67	-67
JAMES	950	30	1566.67	-617
WARD	1250	30	1566.67	-317

14 rows selected.

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

```
1  SELECT
2  E.Ename,
3  E.Sal,
4  E.Deptno,
5  ROUND(E1.SalAvg, 2) DeptAvgSal,
6  ROUND(E.Sal - E1.SalAvg) DiffSalAvg
7  FROM Emp E,
8  (
9  SELECT Deptno, AVG(Sal) SalAvg
10 FROM Emp
11 GROUP BY Deptno
12 ) E1
13 WHERE E.Deptno = E1.Deptno AND
14 SIGN(ROUND(E.Sal - E1.SalAvg)) = 1
15* ORDER BY Deptno
SQL> /
```

ENAME	SAL	DEPTNO	DEPTAVGSAL	DIFFSALAVG
KING	5000	10	2916.67	2083
JONES	2975	20	2175	800

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```
.....
```

FORD	3000	20	2175	825
SCOTT	3000	20	2175	825
BLAKE	2850	30	1566.67	1283
ALLEN	1600	30	1566.67	33

6 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  E.Ename,
3  E.Sal,
4  E.Deptno,
5  ROUND(E1.SalAvg, 2) DeptAvgSal,
6  ROUND(E.Sal - E1.SalAvg) DiffSalAvg
7  FROM Emp E,
8  (
9  SELECT Deptno, AVG(Sal) SalAvg
10 FROM Emp
11 GROUP BY Deptno
12 ) E1
13 WHERE E.Deptno = E1.Deptno AND
14 SIGN(ROUND(E.Sal - E1.SalAvg)) = -1
15* ORDER BY Deptno
SQL> /
```

ENAME	SAL	DEPTNO	DEPTAVGSAL	DIFFSALAVG
CLARK	2450	10	2916.67	-467
MILLER	1300	10	2916.67	-1617
SMITH	800	20	2175	-1375
ADAMS	1100	20	2175	-1075
MARTIN	1250	30	1566.67	-317
TURNER	1500	30	1566.67	-67
JAMES	950	30	1566.67	-617
WARD	1250	30	1566.67	-317

8 rows selected.

SQL> cl scr

```
SQL> SELECT
2  E.Ename,
3  E.Sal,
4  E.Deptno,
5  E1.SalSum
```

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```
6 FROM Emp E,
7 (
8 SELECT Deptno, SUM(Sal) SalSUM
9 FROM Emp
10 GROUP BY Deptno
11 ) E1
12 WHERE E.Deptno = E1.Deptno
13 ORDER BY Deptno;
```

ENAME	SAL	DEPTNO	SALSUM
KING	5000	10	8750
CLARK	2450	10	8750
MILLER	1300	10	8750
JONES	2975	20	10875
FORD	3000	20	10875
SMITH	800	20	10875
SCOTT	3000	20	10875
ADAMS	1100	20	10875
BLAKE	2850	30	9400
MARTIN	1250	30	9400
ALLEN	1600	30	9400
TURNER	1500	30	9400
JAMES	950	30	9400
WARD	1250	30	9400

14 rows selected.

SQL> cl scr

```
SQL> SELECT
2 T1.Deptno,
3 Dname, Staff
4 FROM Dept T1,
5 (
6 SELECT
7 Deptno,
8 COUNT(*) AS Staff
9 FROM Emp
10 GROUP BY Deptno
11 ) T2
12 WHERE T1.Deptno = T2.Deptno
13 AND Staff >= 5;
```

DEPTNO	DNAME	STAFF
30	SALES	6

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20 RESEARCH

5

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  T1.Deptno, Dname, COUNT(*) Staff
3  FROM Dept T1, Emp T2
4  WHERE T1.Deptno = T2.Deptno
5  GROUP BY T1.Deptno, Dname
6*  HAVING COUNT(*) >= 5
SQL> /
```

DEPTNO	DNAME	STAFF
20	RESEARCH	5
30	SALES	6

SQL> SET AUTOTRACE ON EXPLAIN

SQL> SELECT

```
2  T1.Deptno, Dname, COUNT(*) Staff
3  FROM Dept T1, Emp T2
4  WHERE T1.Deptno = T2.Deptno
5  GROUP BY T1.Deptno, Dname
6  HAVING COUNT(*) >= 5;
```

DEPTNO	DNAME	STAFF
20	RESEARCH	5
30	SALES	6

Execution Plan

Plan hash value: 2286730561

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	490	8 (25)	
* 1	FILTER					

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```
-----
| 2 | HASH GROUP BY | 14 | 490 | 8 (25) |
00:00:01 |
|* 3 | HASH JOIN | 14 | 490 | 7 (15) |
00:00:01 |
| 4 | TABLE ACCESS FULL| DEPT | 4 | 88 | 3 (0) |
00:00:01 |
| 5 | TABLE ACCESS FULL| EMP | 14 | 182 | 3 (0) |
00:00:01 |
-----
```

Predicate Information (identified by operation id):

```
1 - filter(COUNT(*)>=5)
3 - access("T1"."DEPTNO"="T2"."DEPTNO")
```

Note

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

```
SQL> SELECT
2 T1.Deptno,
3 Dname, Staff
4 FROM Dept T1,
5 (
6 SELECT
7 Deptno,
8 COUNT(*) AS Staff
9 FROM Emp
10 GROUP BY Deptno
11 ) T2
12 WHERE T1.Deptno = T2.Deptno
13 AND Staff >= 5;
```

DEPTNO	DNAME	STAFF
30	SALES	6
20	RESEARCH	5

Execution Plan

Plan hash value: 1389389523

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Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	672	8 (25)	00:00:01
* 1	HASH JOIN		14	672	8 (25)	00:00:01
2	TABLE ACCESS FULL	DEPT	4	88	3 (0)	00:00:01
3	VIEW		14	364	4 (25)	00:00:01
* 4	FILTER					
5	HASH GROUP BY		14	182	4 (25)	00:00:01
6	TABLE ACCESS FULL	EMP	14	182	3 (0)	00:00:01

Predicate Information (identified by operation id):

1 - access("T1"."DEPTNO"="T2"."DEPTNO")
4 - filter(COUNT(*)>=5)

Note

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

SQL> SET AUTOTRACE OFF EXPLAIN
SQL> cl scr

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

DEPTNO	SUM(SAL)
30	9400
20	10875
10	8750

SQL> SELECT SUM(Sal)
2 FROM Emp;

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SUM(SAL)

29025

```
SQL> SELECT
  2 Deptno,
  3 SUM(Sal),
  4 SUM(Sal) / Tot_Sal * 100 "Salary%"
  5 FROM Emp,
  6 (
  7 SELECT SUM(Sal) Tot_Sal
  8 FROM Emp
  9 )
10 GROUP BY Deptno, Tot_Sal;
```

DEPTNO	SUM(SAL)	Salary%
10	8750	30.1464255
20	10875	37.4677003
30	9400	32.3858742

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

```
1 SELECT
2 Deptno,
3 SUM(Sal),
4 TO_CHAR(SUM(Sal) / Tot_Sal * 100, '99D99') "Salary%"
5 FROM Emp,
6 (
7 SELECT SUM(Sal) Tot_Sal
8 FROM Emp
9 )
10* GROUP BY Deptno, Tot_Sal
SQL> /
```

DEPTNO	SUM(SAL)	Salary
10	8750	30.15
20	10875	37.47
30	9400	32.39

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

```
1 SELECT
2 Deptno,
```

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```
3 SUM(Sal),
4 TO_CHAR(SUM(Sal) / Tot_Sal * 100, '99D99')||' %' "Salary%"
5 FROM Emp,
6 (
7 SELECT SUM(Sal) Tot_Sal
8 FROM Emp
9 )
10* GROUP BY Deptno, Tot_Sal
SQL> /
```

DEPTNO	SUM(SAL)	Salary%
10	8750	30.15 %
20	10875	37.47 %
30	9400	32.39 %

```
SQL> SELECT Ename, Sal
2 FROM Emp;
```

ENAME	SAL
KING	5000
BLAKE	2850
CLARK	2450
JONES	2975
MARTIN	1250
ALLEN	1600
TURNER	1500
JAMES	950
WARD	1250
FORD	3000
SMITH	800
SCOTT	3000
ADAMS	1100
MILLER	1300

14 rows selected.

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

```
1 SELECT
2 Ename,
3 TO_CHAR(Sal. '9G999D99') Sal,
4 TO_CHAR((Sal / OrgSal * 100), '09D99')||' %Share' "%Share"
5 FROM Emp,
6 (
```

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```
7  SELECT SUM(Sal) OrgSal
8  FROM Emp
9* )
SQL> /
TO_CHAR(Sal, '9G999D99') Sal,
```

```
*
ERROR at line 3:
ORA-01747: invalid user.table.column, table.column, or column
specification
```

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

```
1  SELECT
2  Ename,
3  TO_CHAR(Sal, '9G999D99') Sal,
4  TO_CHAR((Sal / OrgSal * 100), '09D99')||' %Share' "%Share"
5  FROM Emp,
6  (
7  SELECT SUM(Sal) OrgSal
8  FROM Emp
9* )
SQL> /
```

ENAME	SAL	%Share
KING	5,000.00	17.23 %Share
BLAKE	2,850.00	09.82 %Share
CLARK	2,450.00	08.44 %Share
JONES	2,975.00	10.25 %Share
MARTIN	1,250.00	04.31 %Share
ALLEN	1,600.00	05.51 %Share
TURNER	1,500.00	05.17 %Share
JAMES	950.00	03.27 %Share
WARD	1,250.00	04.31 %Share
FORD	3,000.00	10.34 %Share
SMITH	800.00	02.76 %Share
SCOTT	3,000.00	10.34 %Share
ADAMS	1,100.00	03.79 %Share
MILLER	1,300.00	04.48 %Share

14 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT
```

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```
2 Deptno,
3 SUM(Sal),
4 SUM(Sal) / Tot_Sal * 100 "Salary%"
5 FROM Emp,
6 (
7 SELECT SUM(Sal) Tot_Sal
8 FROM Emp
9 )
10 GROUP BY Deptno, Tot_Sal;
```

DEPTNO	SUM(SAL)	Salary%
10	8750	30.1464255
20	10875	37.4677003
30	9400	32.3858742

```
SQL> SELECT
2 Job,
3 SUM(Sal),
4 ROUND(SUM(Sal) / Tot_Sal * 100, 2) "Salary%"
5 FROM Emp,
6 (
7 SELECT SUM(Sal) Tot_Sal
8 FROM Emp
9 )
10 GROUP BY Job, Tot_Sal;
```

JOB	SUM(SAL)	Salary%
PRESIDENT	5000	17.23
SALESMAN	5600	19.29
ANALYST	6000	20.67
MANAGER	8275	28.51
CLERK	4150	14.3

```
SQL> SELECT
2 TO_CHAR(HireDate, 'YYYY') Year,
3 SUM(Sal),
4 ROUND(SUM(Sal) / Tot_Sal * 100, 2) "Salary%"
5 FROM Emp,
6 (
7 SELECT SUM(Sal) Tot_Sal
8 FROM Emp
9 )
10 GROUP BY TO_CHAR(HireDate, 'YYYY'), Tot_Sal;
```

YEAR	SUM(SAL)	Salary%
------	----------	---------

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```
-----
1982      4300      14.81
1980       800       2.76
1981     22825     78.64
1983     1100       3.79
```

SQL> cl scr

```
SQL> SELECT
  2  TO_CHAR(HireDate, 'YYYY') Year,
  3  TO_CHAR(HireDate, 'Month') "Month",
  4  SUM(Sal),
  5  ROUND(SUM(Sal) / Tot_Sal * 100, 2) "Salary%"
  6  FROM Emp,
  7  (
  8    SELECT SUM(Sal) Tot_Sal
  9    FROM Emp
 10  )
 11 WHERE TO_CHAR(HireDate, 'YYYY') = &GiveYear
 12 GROUP BY
 13 TO_CHAR(HireDate, 'YYYY'),
 14 TO_CHAR(HireDate, 'Month'), Tot_Sal;
Enter value for giveyear: 1981
```

YEAR	Month	SUM(SAL)	Salary%
1981	November	5000	17.23
1981	April	2975	10.25
1981	June	2450	8.44
1981	September	2750	9.47
1981	December	3950	13.61
1981	May	2850	9.82
1981	February	2850	9.82

7 rows selected.

SQL> COL "Month" FOR A12

SQL> R

```
1  SELECT
2  TO_CHAR(HireDate, 'YYYY') Year,
3  TO_CHAR(HireDate, 'Month') "Month",
4  SUM(Sal),
5  ROUND(SUM(Sal) / Tot_Sal * 100, 2) "Salary%"
6  FROM Emp,
7  (
8    SELECT SUM(Sal) Tot_Sal
9    FROM Emp
```

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```
10 )
11 WHERE TO_CHAR(HireDate, 'YYYY') = &GiveYear
12 GROUP BY
13 TO_CHAR(HireDate, 'YYYY'),
14* TO_CHAR(HireDate, 'Month'), Tot_Sal
Enter value for giveyear: 1981
```

YEAR	Month	SUM(SAL)	Salary%
1981	November	5000	17.23
1981	April	2975	10.25
1981	June	2450	8.44
1981	September	2750	9.47
1981	December	3950	13.61
1981	May	2850	9.82
1981	February	2850	9.82

7 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT COUNT(*) FROM Emp;
```

```
COUNT(*)
-----
14
```

```
SQL> SELECT COUNT(*) FROM Dept;
```

```
COUNT(*)
-----
4
```

```
SQL> SELECT COUNT(*) FROM SalGrade;
```

```
COUNT(*)
-----
5
```

```
SQL> SELECT E.EmpCount, D.DeptCount, S.GradeCnt
2 FROM
3 (
4 SELECT COUNT(*) EmpCount
5 FROM Emp
6 ) E,
7 (
8 SELECT COUNT(*) DeptCount
```

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```
9 FROM Dept
10 ) D,
11 (
12 SELECT COUNT(*) GradeCnt
13 FROM SalGrade
14 ) S;
```

EMPCOUNT	DEPTCOUNT	GRADECNT
14	4	5

```
SQL> SELECT
2 E.EmpCount,
3 D.DeptCount,
4 S.GradeCnt,
5 E.EmpCount + D.DeptCount + S.GradeCnt TotalRecCnt
6 FROM
7 (
8 SELECT COUNT(*) EmpCount
9 FROM Emp
10 ) E,
11 (
12 SELECT COUNT(*) DeptCount
13 FROM Dept
14 ) D,
15 (
16 SELECT COUNT(*) GradeCnt
17 FROM SalGrade
18 ) S;
```

EMPCOUNT	DEPTCOUNT	GRADECNT	TOTALRECCNT
14	4	5	23

```
SQL> SELECT
2 E.EmpCount,
3 D.DeptCount,
4 S.GradeCnt,
5 E.EmpCount + D.DeptCount + S.GradeCnt TotalRecCnt,
6 GREATEST(E.EmpCount, D.DeptCount, S.GradeCnt) HighRecinTab,
7 LEAST(E.EmpCount, D.DeptCount, S.GradeCnt) LowRecinTab
8 FROM
9 (
10 SELECT COUNT(*) EmpCount
11 FROM Emp
12 ) E,
13 (
```

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```
14  SELECT COUNT(*) DeptCount
15  FROM Dept
16  ) D,
17  (
18  SELECT COUNT(*) GradeCnt
19  FROM SalGrade
20  ) S;
```

EMPCOUNT	DEPTCOUNT	GRADECNT	TOTALRECCNT	HIGHRECINTAB	LOWRECINTAB
14	4	5	23	14	4

SQL> cl scr

```
SQL> SELECT
  2  A.Deptno "Department Number",
  3  (A.NumEmp / B.TotalCount ) * 100 "%Employees",
  4  (A.SalSum / B.TotalSal ) * 100 "%Salary"
  5  FROM
  6  (
  7  SELECT
  8  Deptno,
  9  COUNT(*) NumEmp,
 10  SUM(Sal) SalSum
 11  FROM Emp
 12  GROUP BY Deptno
 13  ) A,
 14  (
 15  SELECT
 16  COUNT(*) TotalCount,
 17  SUM(Sal) TotalSal
 18  FROM Emp
 19  ) B;
```

Department Number	%Employees	%Salary
10	21.4285714	30.1464255
20	35.7142857	37.4677003
30	42.8571429	32.3858742

SQL> SPOOL OFF

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