

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

```
SQL> cl scr
```

```
SQL> SELECT Deptno, SUM(Sal) SalSum
  2  FROM Emp;
SELECT Deptno, SUM(Sal) SalSum
  *
```

```
ERROR at line 1:
ORA-00937: not a single-group group function
```

```
SQL> cl scr
```

```
SQL> SELECT Deptno FROM Emp;
```

```
DEPTNO
-----
10
30
10
20
30
30
30
30
30
20
20
20
20
20
10
```

```
14 rows selected.
```

```
SQL> SELECT Deptno
  2  FROM Emp
  3  GROUP BY Deptno;
```

```
DEPTNO
-----
30
20
10
```

```
SQL> SELECT DISTINCT Deptno
  2  FROM Emp;
```

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```
DEPTNO
-----
      30
      20
      10

SQL> cl scr

SQL> SELECT Job FROM Emp;

JOB
-----
PRESIDENT
MANAGER
MANAGER
MANAGER
SALESMAN
SALESMAN
SALESMAN
CLERK
SALESMAN
ANALYST
CLERK
ANALYST
CLERK
CLERK
```

14 rows selected.

```
SQL> SELECT Job
      2 FROM Emp
      3 GROUP BY Job;
```

```
JOB
-----
SALESMAN
CLERK
PRESIDENT
MANAGER
ANALYST
```

```
SQL> SELECT DISTINCT Job
      2 FROM Emp;
```

```
JOB
-----
```

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SALESMAN
CLERK
PRESIDENT
MANAGER
ANALYST

SQL> SELECT MGR FROM Emp;

MGR
7839
7839
7839
7698
7698
7698
7698
7698
7566
7902
7566
7788
7782

14 rows selected.

SQL> SELECT MGR
2 FROM Emp
3 GROUP BY MGR;

MGR
7839
7782
7698
7902
7566
7788

7 rows selected.

SQL> cl scr

SQL> SELECT Empno FROM Emp;

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EMPNO

7369
7499
7521
7566
7654
7698
7782
7788
7839
7844
7876
7900
7902
7934

14 rows selected.

```
SQL> SELECT Empno
      2 FROM Emp
      3 GROUP BY Empno;
```

EMPNO

7369
7499
7521
7566
7654
7698
7782
7788
7839
7844
7876
7900
7902
7934

14 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT MGR
```

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```
2 FROM Emp
3 GROUP BY MGR;
```

MGR

7839
7782
7698
7902
7566
7788

7 rows selected.

SQL> ED
Wrote file afiedt.buf

```
1 SELECT MGR
2 FROM Emp
3 WHERE MGR IS NOT NULL
4* GROUP BY MGR
```

SQL> /

MGR

7839
7782
7698
7902
7566
7788

6 rows selected.

SQL> cl scr

```
SQL> SELECT TO_CHAR(HireDate, 'YYYY') Year
2 FROM Emp;
```

YEAR

1981
1981
1981
1981

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```
1981
1981
1981
1981
1981
1981
1981
1980
1982
1983
1982
```

14 rows selected.

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

```
1  SELECT TO_CHAR(HireDate, 'YYYY') Year
2  FROM Emp
3* GROUP BY TO_CHAR(HireDate, 'YYYY')
SQL> /
```

```
YEAR
----
1980
1983
1982
1981
```

```
SQL> SELECT TO_CHAR(HireDate, 'Month') Month
2  FROM Emp;
```

```
MONTH
-----
```

```
November
May
June
April
September
February
September
December
February
December
December
December
December
January
```

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January

14 rows selected.

```
SQL> COL Month FOR A10
```

```
SQL> R
```

```
1  SELECT TO_CHAR(HireDate, 'Month') Month
2* FROM Emp
```

MONTH

November

May

June

April

September

February

September

December

February

December

December

December

January

January

14 rows selected.

```
SQL> ED
```

Wrote file afiedt.buf

```
1  SELECT TO_CHAR(HireDate, 'Month') Month
2  FROM Emp
3* GROUP BY TO_CHAR(HireDate, 'Month')
```

```
SQL> /
```

MONTH

September

December

January

June

November

April

February

May

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8 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT TO_CHAR(HireDate, 'Month') Month
2  FROM Emp
3  GROUP BY TO_CHAR(HireDate, 'Month')
4* ORDER BY TO_CHAR(HireDate, 'Month')
SQL> /
```

MONTH

April
December
February
January
June
May
November
September

8 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT TO_CHAR(HireDate, 'Month') Month
2  FROM Emp
3  GROUP BY TO_CHAR(HireDate, 'Month')
4* ORDER BY TO_CHAR(HireDate, 'MM')
SQL> /
```

ORDER BY TO_CHAR(HireDate, 'MM')

ERROR at line 4:

ORA-00979: not a GROUP BY expression

SQL> SELECT Ename, Deptno, Sal, Job

```
2  FROM Emp
3  ORDER BY Empno;
```

ENAME	DEPTNO	SAL	JOB
SMITH	20	800	CLERK

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

14 rows selected.

```
SQL> SELECT Deptno
      2  FROM Emp
      3  GROUP BY Deptno
      4  ORDER BY Job;
ORDER BY Job
      *
```

ERROR at line 4:
ORA-00979: not a GROUP BY expression

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

```
      1  SELECT Deptno
      2  FROM Emp
      3  GROUP BY Deptno
      4* ORDER BY Deptno
SQL> /
```

```
      DEPTNO
-----
      10
      20
      30
```

```
SQL> SELECT Deptno
      2  FROM Emp
      3  GROUP BY Job;
SELECT Deptno
      *
```

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ERROR at line 1:
ORA-00979: not a GROUP BY expression

SQL> cl scr

SQL> ED
Wrote file afiedt.buf

```
1  SELECT
2  TO_CHAR(HireDate, 'MM') "Seq.No",
3  TO_CHAR(HireDate, 'Month') Month
4  FROM Emp
5  GROUP BY TO_CHAR(HireDate, 'MM'), TO_CHAR(HireDate, 'Month')
6* ORDER BY TO_CHAR(HireDate, 'MM')
SQL> /
```

Se MONTH

```
-- -----
01 January
02 February
04 April
05 May
06 June
09 September
11 November
12 December
```

8 rows selected.

SQL> cl scr

```
SQL> SELECT Deptno
2  FROM Emp
3  GROUP BY Deptno;
```

```
DEPTNO
-----
30
20
10
```

```
SQL> SELECT Job
2  FROM Emp
3  GROUP BY Job;
```

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JOB

SALESMAN
CLERK
PRESIDENT
MANAGER
ANALYST

```
SQL> SELECT Deptno, Job
      2 FROM Emp
      3 GROUP BY Deptno;
SELECT Deptno, Job
      *
```

ERROR at line 1:
ORA-00979: not a GROUP BY expression

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

```
      1 SELECT Deptno, Job
      2 FROM Emp
      3 GROUP BY Deptno, Job
      4* ORDER BY Deptno
SQL> /
```

DEPTNO	JOB
10	CLERK
10	MANAGER
10	PRESIDENT
20	ANALYST
20	CLERK
20	MANAGER
30	CLERK
30	MANAGER
30	SALESMAN

9 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT SUM(Sal)
      2 FROM Emp;
```

SUM(SAL)

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```
-----
29025

SQL> ED
Wrote file afiedt.buf
```

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

```

SUM(SAL)
-----
9400
10875
8750
```

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

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

```

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

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

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

```

DEPTNO    SUM(SAL)    COUNT(*)    AVG(SAL)
-----
30         9400         6 1566.66667
20        10875         5      2175
10         8750         3 2916.66667
```

```
SQL> cl scr
```

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

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

```
SQL> cl scer
SP2-0158: unknown CLEAR option "scer"
SQL> cl scr
```

```
SQL> SELECT TO_CHAR(HireDate, 'YYYY') Year, SUM(Sal)
  2   FROM Emp
  3  GROUP BY TO_CHAR(HireDate, 'YYYY');
```

YEAR	SUM(SAL)
1980	800
1983	1100
1982	4300
1981	22825

```
SQL> cl scr
```

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

DEPTNO	SALSUM
30	9400
20	10875
10	8750

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

```
1  SELECT Deptno, Job, SUM(Sal) SalSum
2  FROM Emp
3  GROUP BY Deptno, Job
```

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```
4* ORDER BY Deptno
SQL> /
```

DEPTNO	JOB	SALSUM
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.

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

```
1  SELECT
2  Deptno,
3  Job,
4  TO_CHAR(HireDate, 'YYYY') Year,
5  SUM(Sal) SalSum
6  FROM Emp
7  GROUP BY Deptno, Job, TO_CHAR(HireDate, 'YYYY')
8* ORDER BY Deptno
SQL> /
```

DEPTNO	JOB	YEAR	SALSUM
10	CLERK	1982	1300
10	MANAGER	1981	2450
10	PRESIDENT	1981	5000
20	ANALYST	1981	3000
20	ANALYST	1982	3000
20	CLERK	1980	800
20	CLERK	1983	1100
20	MANAGER	1981	2975
30	CLERK	1981	950
30	MANAGER	1981	2850
30	SALESMAN	1981	5600

11 rows selected.

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

```
1  SELECT
2  Deptno,
3  Job,
4  TO_CHAR(HireDate, 'YYYY') Year,
5  TO_CHAR(HireDate, 'Q') Quarter,
6  SUM(Sal) SalSum
7  FROM Emp
8  GROUP BY
9  Deptno,
10 Job,
11 TO_CHAR(HireDate, 'YYYY'),
12 TO_CHAR(HireDate, 'Q')
13* ORDER BY Deptno
SQL> /
```

DEPTNO	JOB	YEAR	Q	SALSUM
10	CLERK	1982	1	1300
10	MANAGER	1981	2	2450
10	PRESIDENT	1981	4	5000
20	ANALYST	1981	4	3000
20	ANALYST	1982	4	3000
20	CLERK	1980	4	800
20	CLERK	1983	1	1100
20	MANAGER	1981	2	2975
30	CLERK	1981	4	950
30	MANAGER	1981	2	2850
30	SALESMAN	1981	1	2850
30	SALESMAN	1981	3	2750

12 rows selected.

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

```
1  SELECT
2  Deptno,
3  Job,
4  TO_CHAR(HireDate, 'YYYY') Year,
5  TO_CHAR(HireDate, 'Q') Quarter,
6  TO_CHAR(HireDate, 'Month') Month,
7  SUM(Sal) SalSum
8  FROM Emp
```

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```
9  GROUP BY
10 Deptno,
11 Job,
12 TO_CHAR(HireDate, 'YYYY'),
13 TO_CHAR(HireDate, 'Q'),
14 TO_CHAR(HireDate, 'Month')
15* ORDER BY Deptno
SQL> /
```

DEPTNO	JOB	YEAR	Q	MONTH	SALSUM
10	CLERK	1982	1	January	1300
10	MANAGER	1981	2	June	2450
10	PRESIDENT	1981	4	November	5000
20	ANALYST	1981	4	December	3000
20	ANALYST	1982	4	December	3000
20	CLERK	1980	4	December	800
20	CLERK	1983	1	January	1100
20	MANAGER	1981	2	April	2975
30	CLERK	1981	4	December	950
30	MANAGER	1981	2	May	2850
30	SALESMAN	1981	1	February	2850
30	SALESMAN	1981	3	September	2750

12 rows selected.

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

```
1  SELECT
2  Deptno,
3  Job,
4  TO_CHAR(HireDate, 'YYYY') Year,
5  TO_CHAR(HireDate, 'Q') Quarter,
6  TO_CHAR(HireDate, 'Month') Month,
7  TO_CHAR(HireDate, 'W') Week,
8  SUM(Sal) SalSum
9  FROM Emp
10 GROUP BY
11 Deptno,
12 Job,
13 TO_CHAR(HireDate, 'YYYY'),
14 TO_CHAR(HireDate, 'Q'),
15 TO_CHAR(HireDate, 'Month'),
16 TO_CHAR(HireDate, 'W')
17* ORDER BY Deptno
```

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SQL> /

DEPTNO	JOB	YEAR	Q	MONTH	W	SALSUM
10	CLERK	1982	1	January	4	1300
10	MANAGER	1981	2	June	2	2450
10	PRESIDENT	1981	4	November	3	5000
20	ANALYST	1981	4	December	1	3000
20	ANALYST	1982	4	December	2	3000
20	CLERK	1980	4	December	3	800
20	CLERK	1983	1	January	2	1100
20	MANAGER	1981	2	April	1	2975
30	CLERK	1981	4	December	1	950
30	MANAGER	1981	2	May	1	2850
30	SALESMAN	1981	1	February	3	1600
30	SALESMAN	1981	1	February	4	1250
30	SALESMAN	1981	3	September	2	1500
30	SALESMAN	1981	3	September	4	1250

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  Deptno,
3  Job,
4  TO_CHAR(HireDate, 'YYYY') Year,
5  TO_CHAR(HireDate, 'Q') Quarter,
6  TO_CHAR(HireDate, 'Month') Month,
7  TO_CHAR(HireDate, 'W') Week,
8  TO_CHAR(HireDate, 'Day') Day,
9  SUM(Sal) SalSum
10 FROM Emp
11 GROUP BY
12 Deptno,
13 Job,
14 TO_CHAR(HireDate, 'YYYY'),
15 TO_CHAR(HireDate, 'Q'),
16 TO_CHAR(HireDate, 'Month'),
17 TO_CHAR(HireDate, 'W'),
18 TO_CHAR(HireDate, 'Day')
19* ORDER BY Deptno
SQL> /
```

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```
.....
DEPTNO JOB          YEAR Q MONTH      W DAY
SALSUM
-----
1300      10 CLERK      1982 1 January      4 Saturday
2450      10 MANAGER     1981 2 June         2 Tuesday
5000      10 PRESIDENT    1981 4 November     3 Tuesday
3000      20 ANALYST      1981 4 December     1 Thursday
3000      20 ANALYST      1982 4 December     2 Thursday
800       20 CLERK        1980 4 December     3 Wednesday
1100      20 CLERK        1983 1 January      2 Wednesday
2975      20 MANAGER     1981 2 April        1 Thursday
950       30 CLERK        1981 4 December     1 Thursday
2850      30 MANAGER     1981 2 May          1 Friday
1600      30 SALESMAN     1981 1 February     3 Friday
1250      30 SALESMAN     1981 1 February     4 Sunday
1500      30 SALESMAN     1981 3 September    2 Tuesday
1250      30 SALESMAN     1981 3 September    4 Monday
```

14 rows selected.

SQL> cl scr

```
SQL> SELECT
2  Deptno,
3  AVG(Sal)
4  FROM Emp
5  GROUP BY Deptno
6  HAVING MAX(Sal) > 2900;
```

```
DEPTNO  AVG(SAL)
-----
```

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```
20          2175
10 2916.66667
```

```
SQL> SELECT
2  Deptno
3  FROM Emp
4  /
```

```
DEPTNO
-----
10
30
10
20
30
30
30
30
30
20
20
20
20
20
10
```

14 rows selected.

```
SQL> SELECT
2  Deptno
3  FROM Emp
4  GROUP BY Deptno
5  /
```

```
DEPTNO
-----
30
20
10
```

```
SQL> SELECT
2  Deptno,
3  AVG(Sal)
4  FROM Emp
5  GROUP BY Deptno
6  /
```

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```
DEPTNO    AVG(SAL)
-----
      30  1566.66667
      20    2175
      10  2916.66667
```

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

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

```
DEPTNO    MAX(SAL)
-----
      30    2850
      20    3000
      10    5000
```

```
SQL> cl scr
```

```
SQL> SELECT
2  Job,
3  SUM(Sal) Payroll
4  FROM Emp
5  WHERE Job NOT LIKE 'SALES%'
6  GROUP BY Job
7  HAVING SUM(Sal) > 5000
8  ORDER BY SUM(Sal);
```

```
JOB          PAYROLL
-----
ANALYST      6000
MANAGER      8275
```

```
SQL> SELECT
2  Job
3  FROM Emp
4  /
```

```
JOB
-----
PRESIDENT
```

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MANAGER
MANAGER
MANAGER
SALESMAN
SALESMAN
SALESMAN
CLERK
SALESMAN
ANALYST
CLERK
ANALYST
CLERK
CLERK

14 rows selected.

```
SQL> SELECT
      2  Job
      3  FROM Emp
      4  WHERE Job NOT LIKE 'SALES%'
      5  /
```

JOB

PRESIDENT
MANAGER
MANAGER
MANAGER
CLERK
ANALYST
CLERK
ANALYST
CLERK
CLERK

10 rows selected.

```
SQL> SELECT
      2  Job
      3  FROM Emp
      4  WHERE Job NOT LIKE 'SALES%'
      5  GROUP BY Job
      6  /
```

JOB

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CLERK
PRESIDENT
MANAGER
ANALYST

```
SQL> SELECT
  2  Job,
  3  SUM(Sal) Payroll
  4  FROM Emp
  5  WHERE Job NOT LIKE 'SALES%'
  6  GROUP BY Job
  7  /
```

JOB	PAYROLL
CLERK	4150
PRESIDENT	5000
MANAGER	8275
ANALYST	6000

```
SQL> SELECT
  2  Job,
  3  SUM(Sal) Payroll
  4  FROM Emp
  5  WHERE Job NOT LIKE 'SALES%'
  6  GROUP BY Job
  7  HAVING SUM(Sal) > 5000
  8  /
```

JOB	PAYROLL
MANAGER	8275
ANALYST	6000

```
SQL> SELECT
  2  Job,
  3  SUM(Sal) Payroll
  4  FROM Emp
  5  WHERE Job NOT LIKE 'SALES%'
  6  GROUP BY Job
  7  HAVING SUM(Sal) > 5000
  8  ORDER BY SUM(Sal);
```

JOB	PAYROLL
ANALYST	6000

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MANAGER 8275

SQL> cl scr

```
SQL> SELECT
  2 Deptno,
  3 MIN(Sal),
  4 MAX(Sal)
  5 FROM Emp
  6 WHERE Job = 'CLERK'
  7 GROUP BY Deptno
  8 HAVING MIN(Sal) < 1000;
```

DEPTNO	MIN(SAL)	MAX(SAL)
30	950	950
20	800	1100

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

DEPTNO	SUM(SAL)
30	9400
20	10875

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

```
1 SELECT
2 Deptno,
3 SUM(Sal)
4 FROM Emp
5 GROUP BY Deptno
6* HAVING COUNT(*) > 3
```

SQL> /

DEPTNO	SUM(SAL)
30	9400
20	10875

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```
SQL> SELECT
  2 Deptno,
  3 AVG(Sal),
  4 SUM(Sal)
  5 FROM Emp
  6 GROUP BY Deptno
  7 HAVING AVG (Sal) > 2500;
```

DEPTNO	AVG(SAL)	SUM(SAL)
10	2916.66667	8750

```
SQL> cl scr
```

```
SQL> SELECT
  2 Deptno,
  3 Job,
  4 SUM(Sal),
  5 AVG(Sal)
  6 FROM Emp
  7 GROUP BY Deptno, Job
  8 HAVING AVG(Sal) > 2500;
```

DEPTNO	JOB	SUM(SAL)	AVG(SAL)
20	MANAGER	2975	2975
10	PRESIDENT	5000	5000
30	MANAGER	2850	2850
20	ANALYST	6000	3000

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

```
1 SELECT
2 Deptno,
3 Job,
4 SUM(Sal),
5 AVG(Sal)
6 FROM Emp
7 GROUP BY Deptno, Job
8* HAVING AVG(Sal) > 2500 AND SUM(Sal) > 2900
SQL> /
```

DEPTNO	JOB	SUM(SAL)	AVG(SAL)
20	MANAGER	2975	2975

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10	PRESIDENT	5000	5000
20	ANALYST	6000	3000

SQL> cl scr

SQL> SELECT SUM(Sal)
2 FROM Emp;

SUM(SAL)
29025

SQL> ED
Wrote file afiedt.buf

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

DEPTNO	SUM(SAL)
30	9400
20	10875
10	8750

SQL> ED
Wrote file afiedt.buf

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

SELECT Deptno, MAX(SUM(Sal))
*

ERROR at line 1:
ORA-00937: not a single-group group function

SQL> ED
Wrote file afiedt.buf

1 SELECT MAX(SUM(Sal))
2 FROM Emp
3* GROUP BY Deptno
SQL> /

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```
MAX(SUM(SAL))
```

```
-----  
10875
```

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
1 SELECT Deptno, MAX(SUM(Sal))  
2 FROM Emp  
3* GROUP BY Deptno
```

```
SQL> /
```

```
SELECT Deptno, MAX(SUM(Sal))  
*
```

```
ERROR at line 1:
```

```
ORA-00937: not a single-group group function
```

```
SQL> cl scr
```

```
SQL> SELECT Job, SUM(Sal)
```

```
2 FROM Emp  
3 GROUP BY Job;
```

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

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
1 SELECT MAX(SUM(Sal)) MaxJobSal, MIN(SUM(Sal)) MinJobSal  
2 FROM Emp  
3* GROUP BY Job
```

```
SQL> /
```

```
MAXJOBSAL  MINJOBSAL  
-----  
8275      4150
```

```
SQL> cl scr
```

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```
SQL> SELECT
  2  GREATEST('HARRY', 'HARRIOT') GREATEST
  3  FROM DUAL;
```

GREAT

HARRY

```
SQL> SELECT
  2  GREATEST(1000, 2000, 200) GREATEST
  3  FROM DUAL;
```

GREATEST

2000

```
SQL> SELECT
  2  GREATEST('10-JUL-05', '20-JUL-05') GREATEST
  3  FROM DUAL;
```

GREATEST

20-JUL-05

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

```
  1  SELECT
  2  GREATEST('10-JUL-05', '20-JUN-05') GREATEST
  3* FROM DUAL
SQL> /
```

GREATEST

20-JUN-05

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

```
  1  SELECT
  2  GREATEST(TO_DATE('10-JUL-05'), TO_DATE('20-JUN-05')) GREATEST
  3* FROM DUAL
SQL> /
```

GREATEST

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10-JUL-05

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  LEAST('HARRY', 'HARRIOT') GREATEST
3* FROM DUAL
SQL> /
```

GREATES

HARRIOT

SQL> cl scr

SQL> SHOW USER

USER is "SCOTT"

SQL> SELECT USER FROM DUAL;

USER

SCOTT

SQL> ED

Wrote file afiedt.buf

```
1* SELECT UID, USER FROM DUAL
SQL> /
```

UID USER

105 SCOTT

SQL> cl scr

SQL> SELECT

```
2  USERENV('ISDBA') ISDBA
```

```
3  FROM DUAL;
```

ISDBA

FALSE

SQL> ED

Wrote file afiedt.buf

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```
1  SELECT
2  USERENV('SESSIONID') SessionID
3* FROM DUAL
SQL> /
```

```
SESSIONID
-----
2860495
```

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

```
1  SELECT
2  USERENV('LANGUAGE') Language
3* FROM DUAL
SQL> /
```

```
LANGUAGE
-----
AMERICAN_AMERICA.AL32UTF8
```

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

```
1  SELECT
2  USERENV('TERMINAL') Terminal
3* FROM DUAL
SQL> /
```

```
TERMINAL
-----
SKYESS-PC
```

```
SQL> cl scr
```

```
SQL> SELECT
2  'The Memory Size of '||&GValue01||' is '||VSIZE(&GValue02)||'
Bytes.' ValSaize
3  FROM DUAL;
Enter value for gvalue01: 'APPLE'
Enter value for gvalue02: 'APPLE'
```

```
VALSAIZE
-----
The Memory Size of APPLE is 5 Bytes.
```

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```
SQL> /
Enter value for gvalue01: 1
Enter value for gvalue02: 1
```

VALSAIZE

The Memory Size of 1 is 2 Bytes.

```
SQL> /
Enter value for gvalue01: 0
Enter value for gvalue02: 0
```

VALSAIZE

The Memory Size of 0 is 1 Bytes.

```
SQL> /
Enter value for gvalue01: 125
Enter value for gvalue02: 125
```

VALSAIZE

The Memory Size of 125 is 3 Bytes.

```
SQL> /
Enter value for gvalue01: 2314
Enter value for gvalue02: 2314
```

VALSAIZE

The Memory Size of 2314 is 3 Bytes.

```
SQL> /
Enter value for gvalue01: 2222
Enter value for gvalue02: 2222
```

VALSAIZE

The Memory Size of 2222 is 3 Bytes.

```
SQL> /
Enter value for gvalue01: SYSDATE
Enter value for gvalue02: SYSDATE
```

VALSAIZE

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The Memory Size of 10-APR-15 is 7 Bytes.

SQL> cl scr

SQL> SELECT
2 Ename||' Your Name Contains '||VSIZE(Ename)||' Characters.' Ename
3 FROM Emp;

ENAME

KING Your Name Contains 4 Characters.
BLAKE Your Name Contains 5 Characters.
CLARK Your Name Contains 5 Characters.
JONES Your Name Contains 5 Characters.
MARTIN Your Name Contains 6 Characters.
ALLEN Your Name Contains 5 Characters.
TURNER Your Name Contains 6 Characters.
JAMES Your Name Contains 5 Characters.
WARD Your Name Contains 4 Characters.
FORD Your Name Contains 4 Characters.
SMITH Your Name Contains 5 Characters.
SCOTT Your Name Contains 5 Characters.
ADAMS Your Name Contains 5 Characters.
MILLER Your Name Contains 6 Characters.

14 rows selected.

SQL> SELECT
2 Ename||' You Are Occupying '||TO_CHAR(TO_DATE(VSIZE(Ename), 'J'),
'JSP')||' Bytes of Memory Space.' Ename
3 FROM Emp;

ENAME

KING You Are Occupying FOUR Bytes of Memory Space.
BLAKE You Are Occupying FIVE Bytes of Memory Space.
CLARK You Are Occupying FIVE Bytes of Memory Space.
JONES You Are Occupying FIVE Bytes of Memory Space.
MARTIN You Are Occupying SIX Bytes of Memory Space.
ALLEN You Are Occupying FIVE Bytes of Memory Space.
TURNER You Are Occupying SIX Bytes of Memory Space.
JAMES You Are Occupying FIVE Bytes of Memory Space.

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WARD You Are Occupying FOUR Bytes of Memory Space.
FORD You Are Occupying FOUR Bytes of Memory Space.
SMITH You Are Occupying FIVE Bytes of Memory Space.
SCOTT You Are Occupying FIVE Bytes of Memory Space.
ADAMS You Are Occupying FIVE Bytes of Memory Space.
MILLER You Are Occupying SIX Bytes of Memory Space.

14 rows selected.

SQL> cl scr

SQL> COLUMN Empno FORMAT 99
SQL> COLUMN Ename FORMAT 99
SQL> COLUMN Deptno FORMAT 99
SQL> COLUMN Job FORMAT 99
SQL> COLUMN MGR FORMAT 99
SQL> COLUMN Sal FORMAT 99
SQL> COLUMN Comm FORMAT 99
SQL> COLUMN HireDate FORMAT 99
SQL> COLUMN Total FORMAT 999
SQL> SELECT
2 SUM(VSIZE(Empno)) Empno,
3 SUM(VSIZE(Ename)) Ename,
4 SUM(VSIZE(Deptno)) Deptno,
5 SUM(VSIZE(Job)) Job,
6 SUM(VSIZE(MGR)) MGR,
7 SUM(VSIZE(Sal)) Sal,
8 SUM(VSIZE(Comm)) Comm,
9 SUM(VSIZE(HireDate)) HireDate,
10 SUM(VSIZE(Empno)) +
11 SUM(VSIZE(Ename)) +
12 SUM(VSIZE(Deptno)) +
13 SUM(VSIZE(Job)) +
14 SUM(VSIZE(MGR)) +
15 SUM(VSIZE(Sal)) +
16 SUM(VSIZE(Comm)) +
17 SUM(VSIZE(HireDate)) Total
18 FROM Emp;

EMPNO	ENAME	DEPTNO	JOB	MGR	SAL	COMM	HIREDATE	TOTAL
41	70	28	96	39	34	7	98	413

SQL> cl scr

SQL> SELECT Ename, Job

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```
2 FROM Emp
3 WHERE Job = 'manager';
```

no rows selected

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

```
1 SELECT Ename, Job
2 FROM Emp
3* WHERE LOWER(Job) = 'manager'
SQL> /
```

ENAME	JOB
BLAKE	MANAGER
CLARK	MANAGER
JONES	MANAGER

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

```
1 SELECT Ename, Job
2 FROM Emp
3* WHERE Job = UPPER('manager')
SQL> /
```

ENAME	JOB
BLAKE	MANAGER
CLARK	MANAGER
JONES	MANAGER

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

```
1 SELECT Ename, Job
2 FROM Emp
3* WHERE Job = 'MANAGER'
SQL> /
```

ENAME	JOB
BLAKE	MANAGER
CLARK	MANAGER
JONES	MANAGER

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

```
 1  SELECT Ename, Job
 2  FROM Emp
 3* WHERE Job = 'manger'
```

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

```
 1  SELECT Ename, Job
 2  FROM Emp
 3* WHERE SOUNDEx(Job) = SOUNDEx('manger')
```

```
SQL> /
```

ENAME	JOB
BLAKE	MANAGER
CLARK	MANAGER
JONES	MANAGER

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

```
 1  SELECT Ename, Job
 2  FROM Emp
 3* WHERE SOUNDEx(Job) = SOUNDEx('&GiveVal')
```

```
SQL> /
```

```
Enter value for giveval: prsdnt
```

ENAME	JOB
KING	PRESIDENT

```
SQL> /
```

```
Enter value for giveval: clrk
```

ENAME	JOB
JAMES	CLERK
SMITH	CLERK
ADAMS	CLERK
MILLER	CLERK

```
SQL> /
```

```
Enter value for giveval: slsmn
```

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Spool File For Oracle Students Trained by Mr.Sathish Yellanki

ENAME	JOB
MARTIN	SALESMAN
ALLEN	SALESMAN
TURNER	SALESMAN
WARD	SALESMAN

SQL> ED
Wrote file afiedt.buf

```
1  SELECT Ename, Job
2  FROM Emp
3* WHERE SOUNDEx(Ename) = SOUNDEx('&GiveVal')
SQL> /
Enter value for giveval: kng
```

ENAME	JOB
KING	PRESIDENT

SQL> /
Enter value for giveval: smythe

ENAME	JOB
SMITH	CLERK

SQL> /
Enter value for giveval: clrk

ENAME	JOB
CLARK	MANAGER

SQL> /
Enter value for giveval: trnr

ENAME	JOB
TURNER	SALESMAN

SQL> SPOOL OFF

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