```
SQL> SET PAGESIZE 400
SQL> SET LINESIZE 400
SQL> SELECT * FROM user_tables;


SQL> describe USER_TABLES;

SQL> SELECT tablename FROM user_tables;
SELECT tablename FROM user_tables

SQL> SELECT table_name FROM user_tables;

TABLE_NAME
------------------------------
REGIONS
LOCATIONS
DEPARTMENTS
JOBS
EMPLOYEES
JOB_HISTORY
COUNTRIES

7 rows selected.

SQL> SELECT * FROM employees;


SQL> SELECT * FROM countries;


SQL> SELECT * FROM jobs;


SQL> SELECT * FROM job_history;


SQL> SELECT * FROM departments;


SQL> SELECT * FROM locations;


SQL> ed
Wrote file afiedt.buf

  1* SELECT firstname, lastname, phone number, salary FROM employees
SQL> /
SELECT firstname, lastname, phone number, salary FROM employees
                                 *

SQL> DESCRIBE employees;
SQL> ed
Wrote file afiedt.buf

  1  SELECT first_name, last_name,
  2* phone_number, salary FROM employees
SQL>
SQL> /
```

```
SQL> ed
Wrote file afiedt.buf

  1  SELECT * FROM employees
  2* WHERE first_name=steven
SQL> /
WHERE first_name=steven
                  *
  1  SELECT * FROM employees
  2* WHERE first_name='steven'
  1  SELECT * FROM employees
  2* WHERE first_name='STEVEN'
  1  SELECT * FROM employees
  2* WHERE first_name='Steven'

  1  SELECT * FROM employees
  2* WHERE UPPER(first_name)='STEVEN'

  1  SELECT * FROM employees
  2* WHERE INITCAP(first_name)='Steven'

  1  SELECT * FROM employees
  2  WHERE LOWER(first_name)='steven'
  3*            LOWER(last_name)='king'
SQL> /
             LOWER(last_name)='king'
             *
1  SELECT * FROM employees
  2  WHERE LOWER(first_name)='steven'
  3*  AND LOWER(last_name)='king'

  1  SELECT * FROM employees
  2* WHERE employee_id=143

  1  SELECT * FROM employees
  2* WHERE employee_id='143'

  1  SELECT * FROM employees
  2* WHERE employee_id=100,150,200
SQL> /
WHERE employee_id=100,150,200
                  *
ERROR at line 2:
ORA-00933: SQL command not properly ended


SQL> ed
Wrote file afiedt.buf

  1  SELECT * FROM employees
  2* WHERE employee_id IN (100,150,200)
SQL> /

SQL> REM CONCATENATION
SQL> ED

  1* SELECT first_name,last_name,salary  FROM employees
```

```
  1* SELECT first_name||last_name,salary  FROM employees
SQL> /


SQL> ed
Wrote file afiedt.buf

  1* SELECT first_name||'   '|| last_name||salary  FROM employees
SQL> /



  1* SELECT first_name||'   '|| last_name||'   '||salary  FROM employees
SQL> /


SQL> ed
* SELECT LPAD(first_name)||'   '|| LPAD(last_name)||' is making   '||salary|| '
monthly.'  FROM employees
SQL> /
SELECT LPAD(first_name)||'   '|| LPAD(last_name)||' is making   '||salary|| '
monthly.'  FROM employees
       *
  1* SELECT LPAD(first_name,12)||'   '|| LPAD(last_name,12)||' is making
'||salary|| ' monthly.'  FROM employees
SQL> /

LPAD(FIRST_NAME,12)||''||LPAD(LAST_NAME,12)||'ISMAKING'||SALARY||'MONTHLY.'
  1* SELECT RPAD(first_name,12)||'   '|| RPAD(last_name,12)||' is making
'||salary|| ' monthly.'  FROM employees
SQL> /

RPAD(FIRST_NAME,12)||''||RPAD(LAST_NAME,12)||'ISMAKING'||SALARY||'MONTHLY.'

  1* SELECT RPAD(first_name,12)|| RPAD(last_name,12)||' is making   '||salary|| '
monthly.'  FROM employees
SQL> /

RPAD(FIRST_NAME,12)||RPAD(LAST_NAME,12)||'ISMAKING'||SALARY||'MONTHLY.'
Steven      King         is making   24000 monthly.
Neena       Kochhar      is making   17000 monthly.
Lex         De Haan      is making   17000 monthly.

  1* SELECT RPAD(first_name,12)|| RPAD(last_name,12)||'is making   '||salary|| '
monthly.'  FROM employees
SQL> /

RPAD(FIRST_NAME,12)||RPAD(LAST_NAME,12)||'ISMAKING'||SALARY||'MONTHLY.'

Steven      King         is making   24000 monthly.
Neena       Kochhar      is making   17000 monthly.

  1* SELECT RPAD(first_name,12)|| RPAD(last_name,12)||'is making
'||RPAD(salary,6)|| 'monthly.'  FROM employees
SQL> /

RPAD(FIRST_NAME,12)||RPAD(LAST_NAME,12)||'ISMAKING'||RPAD(SALARY,6)||'MONTHLY.'
--------------------------------------------------------------------------------
-------------------------------------------------------
Steven      King         is making   24000 monthly.
```

```
Neena         Kochhar      is making   17000 monthly.


  1* SELECT RPAD(first_name,12)|| RPAD(last_name,12)||'is making
'||LPAD(salary,6)|| 'monthly.'  FROM employees
SQL> /

RPAD(FIRST_NAME,12)||RPAD(LAST_NAME,12)||'ISMAKING'||LPAD(SALARY,6)||'MONTHLY.'
--------------------------------------------------------------------------------
----------------------------------------------------
Steven        King         is making   24000monthly.

  1* SELECT RPAD(first_name,12)|| RPAD(last_name,12)||'is making
'||LPAD(salary,6)|| '  monthly.'  FROM employees
SQL> /

RPAD(FIRST_NAME,12)||RPAD(LAST_NAME,12)||'ISMAKING'||LPAD(SALARY,6)||'MONTHLY.'
--------------------------------------------------------------------------------
----------------------------------------------------
Steven        King         is making   24000  monthly.
Neena         Kochhar      is making   17000  monthly.

  1* SELECT RPAD(first_name,12)|| RPAD(last_name,12)||'is making
'||LPAD(salary,6)|| '  monthly.'  AS employee_monthly_salary FROM employees
SQL> /

EMPLOYEE_MONTHLY_SALARY
--------------------------------------------------------------------------------
----------------------------------------------------
Steven        King         is making   24000  monthly.
Neena         Kochhar      is making   17000  monthly.

  1* SELECT RPAD(first_name,12)|| RPAD(last_name,12)||'is making
'||LPAD(salary,6)|| '  monthly.'  AS "Employee Monthly Salary" FROM employees
SQL> /

Employee Monthly Salary
--------------------------------------------------------------------------------
----------------------------------------------------
Steven        King         is making   24000  monthly.
Neena         Kochhar      is making   17000  monthly.
Lex           De Haan      is making   17000  monthly.

  1* SELECT RPAD(first_name,12)|| RPAD(last_name,12)||'is making
'||LPAD(salary,6)|| '  monthly.'  AS "Employee Monthly Salary" FROM employees
SQL> /

Employee Monthly Salary
--------------------------------------------------------------------------------
----------------------------------------------------
Steven        King         is making   24000  monthly.
Neena         Kochhar      is making   17000  monthly.
Lex           De Haan      is making   17000  monthly.

  1* SELECT first_name,last_name,salary,commission_pct FROM employees
SQL> /

FIRST_NAME           LAST_NAME                    SALARY COMMISSION_PCT
-------------------- ------------------------ ---------- --------------
Steven               King                          24000
```

```
Neena                    Kochhar                          17000


  1* SELECT first_name,last_name,salary,commission_pct , salary+commission_pct FROM
employees
SQL> /

FIRST_NAME           LAST_NAME                   SALARY COMMISSION_PCT
SALARY+COMMISSION_PCT
------------------ ---------------------- --------- ------------- ------------
---------
Steven               King                         24000

  1* SELECT first_name,last_name,salary,commission_pct , salary+salary*commission_pct
FROM employees
SQL> /

FIRST_NAME           LAST_NAME                   SALARY COMMISSION_PCT
SALARY+SALARY*COMMISSION_PCT
------------------ ---------------------- --------- ------------- ------------
----------------
Steven               King                         24000
Neena                Kochhar                      17000

  1* SELECT first_name,last_name,salary,commission_pct , NVL(commission_pct,0) FROM
employees
SQL> /

FIRST_NAME           LAST_NAME                   SALARY COMMISSION_PCT
NVL(COMMISSION_PCT,0)
------------------ ---------------------- --------- ------------- ------------
---------
Steven               King                         24000
0

  1* SELECT first_name,last_name,salary,commission_pct , NVL(commission_pct,.1) FROM
employees
SQL> /

FIRST_NAME           LAST_NAME                   SALARY COMMISSION_PCT
NVL(COMMISSION_PCT,.1)
------------------ ---------------------- --------- ------------- ------------
----------
Steven               King                         24000
.1

  1* SELECT first_name,last_name,salary,commission_pct , NVL(commission_pct,0),
salary+salary*NVL(commission_pct,0)  FROM employees
SQL> /

FIRST_NAME           LAST_NAME                   SALARY COMMISSION_PCT
NVL(COMMISSION_PCT,0) SALARY+SALARY*NVL(COMMISSION_PCT,0)
------------------ ---------------------- --------- ------------- ------------
-------- -----------------------------------
Steven               King                         24000
0                               24000
```

```
  1* SELECT first_name,last_name,salary,commission_pct , NVL(commission_pct,.2),
salary+salary*NVL(commission_pct,.2)  FROM employees
SQL> /

FIRST_NAME           LAST_NAME                    SALARY COMMISSION_PCT
NVL(COMMISSION_PCT,.2) SALARY+SALARY*NVL(COMMISSION_PCT,.2)
------------------- ------------------------ ---------- -------------- ------------
---------- -----------------------------------
Steven               King                          24000
.2                              28800
Neena                Kochhar                       17000

  1* SELECT first_name,last_name,salary,commission_pct ,
salary+salary*NVL(commission_pct,.2)  FROM employees
SQL> /

FIRST_NAME           LAST_NAME                    SALARY COMMISSION_PCT
SALARY+SALARY*NVL(COMMISSION_PCT,.2)
------------------- ------------------------ ---------- -------------- ------------
-----------------------
Steven               King                          24000
28800

  1* SELECT first_name,last_name,salary,commission_pct
salary+salary*NVL(commission_pct,.2) as Monthly_Salary FROM employees
SQL>

FIRST_NAME           LAST_NAME                    SALARY COMMISSION_PCT
MONTHLY_SALARY
------------------- ------------------------ ---------- -------------- ------------
--
Steven               King                          24000
28800

  1* SELECT first_name,last_name,salary+salary*NVL(commission_pct,.2) as
Monthly_Salary FROM employees
SQL> /

FIRST_NAME           LAST_NAME                MONTHLY_SALARY
------------------- ------------------------ --------------
Steven               King                             28800

  1  SELECT first_name,last_name,salary+salary*NVL(commission_pct,.2) as
Monthly_Salary FROM employees
  2  WHERE UPPER(first_name)='LUIS'
  3* AND UPPER(last_name)='POPP'
SQL> /

FIRST_NAME           LAST_NAME                MONTHLY_SALARY
------------------- ------------------------ --------------
Luis                 Popp                              8280

  1  SELECT first_name,last_name,salary+salary*NVL(commission_pct,.2) as
Yearly_Salary FROM employees
  2  WHERE UPPER(first_name)='LUIS'
  3* AND UPPER(last_name)='POPP'
SQL> /

FIRST_NAME           LAST_NAME                 YEARLY_SALARY
------------------- ------------------------ --------------
```

```
Luis                 Popp                                        8280

1  SELECT first_name,last_name,(salary+salary*NVL(commission_pct,.2))*12 as
Yearly_Salary FROM employees
  2  WHERE UPPER(first_name)='LUIS'
  3* AND UPPER(last_name)='POPP'
SQL> /

FIRST_NAME           LAST_NAME                YEARLY_SALARY
-------------------- ------------------------ -------------
Luis                 Popp                             99360

  1  SELECT first_name,last_name,salary+salary*NVL(commission_pct,.2) as
Monthly_Salary,(salary+salary*NVL(commission_pct,.2))*12 as Yearly_Salary FROM
employees
  2  WHERE UPPER(first_name)='LUIS'
  3* AND UPPER(last_name)='POPP'
SQL> /

FIRST_NAME           LAST_NAME                MONTHLY_SALARY YEARLY_SALARY
-------------------- ------------------------ -------------- -------------
Luis                 Popp                               8280         99360

  1  SELECT first_name,last_name,salary+salary*NVL(commission_pct,.2) as
Monthly_Salary,(salary+salary*NVL(commission_pct,.2))*12 as Yearly_Salary FROM
employees
  2* WHERE employee_id IN (100, 150, 200, 199)
SQL> /

FIRST_NAME           LAST_NAME                MONTHLY_SALARY YEARLY_SALARY
-------------------- ------------------------ -------------- -------------
Steven               King                              28800        345600
1  SELECT first_name,last_name,salary, commission_pct,
NVL(commission_pct,.2),salary+salary*NVL(commission_pct,.2) as
Monthly_Salary,(salary+salary*NVL(commission_pct,.2))*12 as Yearly_Salary FROM
employees
  2* WHERE employee_id IN (100, 150, 200, 199)
SQL> /

FIRST_NAME           LAST_NAME                         SALARY COMMISSION_PCT
NVL(COMMISSION_PCT,.2) MONTHLY_SALARY YEARLY_SALARY
-------------------- ------------------------ ---------- -------------- -------------
---------- -------------- -------------
Steven               King                              24000
.2         28800        345600
Peter                Tucker                            10000             .3
  1  (SELECT first_name,last_name,salary, commission_pct,
NVL(commission_pct,.2),salary+salary*NVL(commission_pct,.2) as
Monthly_Salary,(salary+salary*NVL(commission_pct,.2))*12 as Yearly_Salary FROM
employees
  2  WHERE employee_id IN (100, 150, 200, 199))
  3                       UNION
  4  (SELECT first_name,last_name,salary, commission_pct,
NVL(commission_pct,.2),salary+salary*NVL(commission_pct,.2) as
Monthly_Salary,(salary+salary*NVL(commission_pct,.1))*12 as Yearly_Salary FROM
employees
  5  WHERE employee_id IN (101, 151, 201, 198))
  6       UNION
  7  (SELECT first_name,last_name,salary, commission_pct,
NVL(commission_pct,.2),salary+salary*NVL(commission_pct,.2) as
```

```
Monthly_Salary,(salary+salary*NVL(commission_pct,.1))*12 as Yearly_Salary FROM
employees
  8* WHERE employee_id IN (107, 157, 203, 197))
  9  /

FIRST_NAME           LAST_NAME                     SALARY COMMISSION_PCT
NVL(COMMISSION_PCT,.2) MONTHLY_SALARY YEARLY_SALARY
-------------------- ------------------------ ---------- -------------- ------------
---------- -------------- -------------
David                Bernstein                       9500            .25
.25           11875         142500
Diana                Lorentz                         4200

  1  (SELECT employee_id,first_name,last_name,salary, commission_pct,
NVL(commission_pct,.2),salary+salary*NVL(commission_pct,.2) as
Monthly_Salary,(salary+salary*NVL(commission_pct,.2))*12 as Yearly_Salary FROM
employees
  2  WHERE employee_id IN (100, 150, 200, 199))
  3                         UNION
  4  (SELECT first_name,last_name,salary, commission_pct,
NVL(commission_pct,.2),salary+salary*NVL(commission_pct,.2) as
Monthly_Salary,(salary+salary*NVL(commission_pct,.1))*12 as Yearly_Salary FROM
employees
  5  WHERE employee_id IN (101, 151, 201, 198))
  6      UNION
  7  (SELECT first_name,last_name,salary, commission_pct,
NVL(commission_pct,.2),salary+salary*NVL(commission_pct,.2) as
Monthly_Salary,(salary+salary*NVL(commission_pct,.1))*12 as Yearly_Salary FROM
employees
  8* WHERE employee_id IN (107, 157, 203, 197))
SQL> /
(SELECT employee_id,first_name,last_name,salary, commission_pct,
NVL(commission_pct,.2),salary+salary*NVL(commission_pct,.2) as
Monthly_Salary,(salary+salary*NVL(commission_pct,.2))*12 as Yearly_Salary FROM
employees
 *

  1  (SELECT employee_id,first_name,last_name,salary, commission_pct,
NVL(commission_pct,.2),salary+salary*NVL(commission_pct,.2) as
Monthly_Salary,(salary+salary*NVL(commission_pct,.2))*12 as Yearly_Salary FROM
employees
  2  WHERE employee_id IN (100, 150, 200, 199))
  3                         UNION
  4  (SELECT employee_id,first_name,last_name,salary, commission_pct,
NVL(commission_pct,.2),salary+salary*NVL(commission_pct,.2) as
Monthly_Salary,(salary+salary*NVL(commission_pct,.1))*12 as Yearly_Salary FROM
employees
  5  WHERE employee_id IN (101, 151, 201, 198))
  6      UNION
  7  (SELECT employee_id,first_name,last_name,salary, commission_pct,
NVL(commission_pct,.2),salary+salary*NVL(commission_pct,.2) as
Monthly_Salary,(salary+salary*NVL(commission_pct,.1))*12 as Yearly_Salary FROM
employees
  8* WHERE employee_id IN (107, 157, 203, 197))
SQL> /

EMPLOYEE_ID FIRST_NAME           LAST_NAME                     SALARY COMMISSION_PCT
NVL(COMMISSION_PCT,.2) MONTHLY_SALARY YEARLY_SALARY
----------- -------------------- ------------------------ ---------- --------------
---------------------- -------------- -------------
```