IS NULL:

- it is used to compare column value with NULL.

Syntax:
<column> IS null

Q Display the emp record who are getting comm:

SQL> SELECT * FROM EMP WHERE COMM IS NOT NULL;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30

Q Display the emp record who are NOT getting comm:

SQL> SELECT * FROM EMP WHERE COMM IS NULL;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7788	SCOTT	ANALYST	7566	09-DEC-82	3000		20
7839	KING	PRESIDENT		17-NOV-81	5000		10
7844	TURNER	SALESMAN	7698	08-SEP-81	1500		30
7876	ADAMS	CLERK	7788	12-JAN-83	1100		20
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		1

11 rows selected.

Q Display the emp records who are getting comm as 500:

SQL> SELECT * FROM EMP WHERE COMM=500;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO

```
          7521 WARD       SALESMAN       7698 22-FEB-81      1250        500         30
```

```
SQL> SELECT ENAME||'SAL IS'||SAL FROM EMP;

ENAME||'SALIS'||SAL
-----------------------------------------------------
SMITHSAL IS800
ALLENSAL IS1600
WARDSAL IS1250
JONESSAL IS2975
MARTINSAL IS1250
BLAKESAL IS2850
CLARKSAL IS2450
SCOTTSAL IS3000
KINGSAL IS5000
TURNERSAL IS1500
ADAMSSAL IS1100
JAMESSAL IS950
FORDSAL IS3000
MILLERSAL IS1300

14 rows selected.
```

```
SQL> SELECT ENAME || ' SALIS ' || SAL FROM EMP;

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

14 rows selected.

SQL> SELECT ENAME || ' SAL IS ' || SAL FROM EMP;

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

14 rows selected.
```

UPDATE:

• UPDATE command is used to modify table data.

○ **single value of single record**
○ **multiple values of single record**
○ **specific group of records**
○ **all records**
• Using UPDATE command we can modify:

Syntax:
UPDATE <table_name>
SET <column> = <new_value> [, <column> =
<new_value>, ...]
[WHERE <condition>];

Q Increase 2000 rupees salary to the emp whose empno is 7521:

SQL> UPDATE EMP SET SAL=SAL+2000 WHERE EMPNO=7521;

1 row updated.

```
SQL> SELECT * FROM EMP;

    EMPNO ENAME      JOB          MGR HIREDATE      SAL      COMM    DEPTNO
---------- ---------- --------- ---------- --------- ---------- ---------- ----------
      7369 SMITH      CLERK       7902 17-DEC-80     800              20
      7499 ALLEN      SALESMAN    7698 20-FEB-81    1600      300      30
      7521 WARD       SALESMAN    7698 22-FEB-81    3250      500      30
      7566 JONES      MANAGER     7839 02-APR-81    2975              20
      7654 MARTIN     SALESMAN    7698 28-SEP-81    1250     1400      30
      7698 BLAKE      MANAGER     7839 01-MAY-81    2850              30
      7782 CLARK      MANAGER     7839 09-JUN-81    2450              10
      7788 SCOTT      ANALYST     7566 09-DEC-82    3000              20
      7839 KING       PRESIDENT        17-NOV-81   5000              10
      7844 TURNER     SALESMAN    7698 08-SEP-81    1500              30
      7876 ADAMS      CLERK       7788 12-JAN-83    1100              20
      7900 JAMES      CLERK       7698 03-DEC-81     950              30
      7902 FORD       ANALYST     7566 03-DEC-81    3000              20
      7934 MILLER     CLERK       7782 23-JAN-82    1300              10

14 rows selected.


SQL> SELECT * FROM EMP;

    EMPNO ENAME      JOB          MGR HIREDATE      SAL      COMM    DEPTNO
---------- ---------- --------- ---------- --------- ---------- ---------- ----------
      7369 SMITH      CLERK       7902 17-DEC-80     800              20
      7499 ALLEN      SALESMAN    7698 20-FEB-81    1600      300      30
      7521 WARD       SALESMAN    7698 22-FEB-81    1250      500      30
      7566 JONES      MANAGER     7839 02-APR-81    2975              20
      7654 MARTIN     SALESMAN    7698 28-SEP-81    1250     1400      30
      7698 BLAKE      MANAGER     7839 01-MAY-81    2850              30
      7782 CLARK      MANAGER     7839 09-JUN-81    2450              10
      7788 SCOTT      ANALYST     7566 09-DEC-82    3000              20
      7839 KING       PRESIDENT        17-NOV-81   5000              10
      7844 TURNER     SALESMAN    7698 08-SEP-81    1500              30
      7876 ADAMS      CLERK       7788 12-JAN-83    1100              20
      7900 JAMES      CLERK       7698 03-DEC-81     950              30
      7902 FORD       ANALYST     7566 03-DEC-81    3000              20
      7934 MILLER     CLERK       7782 23-JAN-82    1300              10

14 rows selected.
```

Q Set job title as MANAGER , sal as 6000 to the emp whose empno is

SQL> UPDATE EMP SET JOB='MANAGER',SAL=SAL+6000 WHERE EMPNO=7521;

1 row updated.

SQL> SELECT * FROM EMP;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	MANAGER	7698	22-FEB-81	7250	500	30
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7788	SCOTT	ANALYST	7566	09-DEC-82	3000		20
7839	KING	PRESIDENT		17-NOV-81	5000		10
7844	TURNER	SALESMAN	7698	08-SEP-81	1500		30
7876	ADAMS	CLERK	7788	12-JAN-83	1100		20
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

14 rows selected.

Q Increase 20% on sal to all managers:

SQL> UPDATE EMP SET SAL=SAL+SAL*0.2 WHERE JOB='MANAGER';

4 rows updated.

SQL> SELECT * FROM EMP;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	MANAGER	7698	22-FEB-81	8700	500	30
7566	JONES	MANAGER	7839	02-APR-81	3570		20
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7698	BLAKE	MANAGER	7839	01-MAY-81	3420		30
7782	CLARK	MANAGER	7839	09-JUN-81	2940		10
7788	SCOTT	ANALYST	7566	09-DEC-82	3000		20
7839	KING	PRESIDENT		17-NOV-81	5000		10
7844	TURNER	SALESMAN	7698	08-SEP-81	1500		30
7876	ADAMS	CLERK	7788	12-JAN-83	1100		20
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

14 rows selected.

SQL> SELECT JOB FROM EMP;

JOB

CLERK
SALESMAN
MANAGER
MANAGER

SALESMAN
MANAGER
MANAGER
ANALYST
PRESIDENT
SALESMAN
CLERK
CLERK
ANALYST
CLERK

14 rows selected.

SQL> SELECT ENAME,JOB,SAL FROM EMP WHERE JOB ='MANAGER';

ENAME   JOB   SAL
---------- --------- ----------
WARD   MANAGER   8700
JONES   MANAGER   3570
BLAKE   MANAGER   3420
CLARK   MANAGER   2940

Q Increase 2000 rupees salary to all emps:

SQL> UPDATE EMP SET SAL=SAL+2000;

14 rows updated.

SQL> SELECT * FROM EMP;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	2800		20
7499	ALLEN	SALESMAN	7698	20-FEB-81	3600	300	30
7521	WARD	MANAGER	7698	22-FEB-81	10700	500	30
7566	JONES	MANAGER	7839	02-APR-81	5570		20
7654	MARTIN	SALESMAN	7698	28-SEP-81	3250	1400	30
7698	BLAKE	MANAGER	7839	01-MAY-81	5420		30
7782	CLARK	MANAGER	7839	09-JUN-81	4940		10
7788	SCOTT	ANALYST	7566	09-DEC-82	5000		20
7839	KING	PRESIDENT		17-NOV-81	7000		10
7844	TURNER	SALESMAN	7698	08-SEP-81	3500		30
7876	ADAMS	CLERK	7788	12-JAN-83	3100		20
7900	JAMES	CLERK	7698	03-DEC-81	2950		30
7902	FORD	ANALYST	7566	03-DEC-81	5000		20
7934	MILLER	CLERK	7782	23-JAN-82	3300		10

14 rows selected.

SQL> SELECT ENAME,DEPTNO FROM EMP ORDER BY DEPTNO;

ENAME	DEPTNO
CLARK	10
KING	10
MILLER	10
JONES	20
FORD	20
ADAMS	20
SMITH	20
SCOTT	20

```
WARD            30
TURNER           30
ALLEN           30
JAMES           30
BLAKE           30
MARTIN           30

14 rows selected.
```

Q Transfer all deptno 10 emps to deptno 20:

```
SQL> UPDATE EMP SET DEPTNO=20 WHERE DEPTNO=10;

3 rows updated.

SQL> SELECT ENAME,DEPTNO FROM EMP ORDER BY DEPTNO;

ENAME       DEPTNO
---------- ----------
SMITH           20
CLARK           20
FORD            20
ADAMS            20
KING            20
SCOTT           20
MILLER          20
JONES           20
JAMES           30
BLAKE           30
MARTIN           30
TURNER           30
WARD            30
```

ALLEN   30

14 rows selected.

SQL> SELECT * FROM EMP;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	2800		20
7499	ALLEN	SALESMAN	7698	20-FEB-81	3600	300	30
7521	WARD	MANAGER	7698	22-FEB-81	10700	500	30
7566	JONES	MANAGER	7839	02-APR-81	5570		20
7654	MARTIN	SALESMAN	7698	28-SEP-81	3250	1400	30
7698	BLAKE	MANAGER	7839	01-MAY-81	5420		30
7782	CLARK	MANAGER	7839	09-JUN-81	4940		20
7788	SCOTT	ANALYST	7566	09-DEC-82	5000		20
7839	KING	PRESIDENT		17-NOV-81	7000		20
7844	TURNER	SALESMAN	7698	08-SEP-81	3500		30
7876	ADAMS	CLERK	7788	12-JAN-83	3100		20
7900	JAMES	CLERK	7698	03-DEC-81	2950		30
7902	FORD	ANALYST	7566	03-DEC-81	5000		20
7934	MILLER	CLERK	7782	23-JAN-82	3300		20

14 rows selected.

Q Set comm as 900 to the emps who are not getting commission:

SQL> UPDATE EMP SET COMM=900 WHERE COMM IS NULL;

11 rows updated.

SQL> SELECT * FROM EMP;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	2800	900	20
7499	ALLEN	SALESMAN	7698	20-FEB-81	3600	300	30
7521	WARD	MANAGER	7698	22-FEB-81	10700	500	30
7566	JONES	MANAGER	7839	02-APR-81	5570	900	20
7654	MARTIN	SALESMAN	7698	28-SEP-81	3250	1400	30
7698	BLAKE	MANAGER	7839	01-MAY-81	5420	900	30
7782	CLARK	MANAGER	7839	09-JUN-81	4940	900	20
7788	SCOTT	ANALYST	7566	09-DEC-82	5000	900	20
7839	KING	PRESIDENT		17-NOV-81	7000	900	20
7844	TURNER	SALESMAN	7698	08-SEP-81	3500	900	30
7876	ADAMS	CLERK	7788	12-JAN-83	3100	900	20
7900	JAMES	CLERK	7698	03-DEC-81	2950	900	30
7902	FORD	ANALYST	7566	03-DEC-81	5000	900	20
7934	MILLER	CLERK	7782	23-JAN-82	3300	900	20

14 rows selected.

Q Set comm as null to the emps whose empnos are: 7698,7521,7499

SQL> UPDATE EMP SET COMM=null WHERE empno IN(7698,7521,7499);

3 rows updated.

SQL> SELECT * FROM EMP;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO

```
     7369 SMITH     CLERK         7902 17-DEC-80      2800       900       20
     7499 ALLEN     SALESMAN      7698 20-FEB-81      3600                 30
     7521 WARD      MANAGER       7698 22-FEB-81     10700                 30
     7566 JONES     MANAGER       7839 02-APR-81      5570       900       20
     7654 MARTIN    SALESMAN      7698 28-SEP-81      3250      1400       30
     7698 BLAKE     MANAGER       7839 01-MAY-81      5420                 30
     7782 CLARK     MANAGER       7839 09-JUN-81      4940       900       20
     7788 SCOTT     ANALYST       7566 09-DEC-82      5000       900       20
     7839 KING      PRESIDENT          17-NOV-81      7000       900       20
     7844 TURNER    SALESMAN      7698 08-SEP-81      3500       900       30
     7876 ADAMS     CLERK         7788 12-JAN-83      3100       900       20
     7900 JAMES     CLERK         7698 03-DEC-81      2950       900       30
     7902 FORD      ANALYST       7566 03-DEC-81      5000       900       20
     7934 MILLER    CLERK         7782 23-JAN-82      3300       900       20

14 rows selected.




SQL> SELECT ENAME,SAL FROM EMP;

ENAME            SAL
---------- ----------
SMITH          2800
ALLEN          3600
WARD          10700
JONES          5570
MARTIN         3250
BLAKE          5420
CLARK          4940
SCOTT          5000
KING           7000
TURNER         3500
ADAMS          3100
JAMES          2950
FORD           5000
MILLER         3300

14 rows selected.
```

```
SQL> SELECT ENAME,SAL,HIREDATE FROM EMP;

ENAME           SAL HIREDATE
---------- ---------- ---------
SMITH          2800 17-DEC-80
ALLEN          3600 20-FEB-81
WARD          10700 22-FEB-81
JONES          5570 02-APR-81
MARTIN         3250 28-SEP-81
BLAKE          5420 01-MAY-81
CLARK          4940 09-JUN-81
SCOTT          5000 09-DEC-82
KING           7000 17-NOV-81
TURNER         3500 08-SEP-81
ADAMS          3100 12-JAN-83
JAMES          2950 03-DEC-81
FORD           5000 03-DEC-81
MILLER         3300 23-JAN-82

14 rows selected.
```

Q Increase 20% on sal to the emps who are having more than 42years experience:

```
SQL> SELECT ENAME,SAL,HIREDATE,(SYSDATE-HIREDATE)/365 AS EXPI FROM EMP;

ENAME           SAL HIREDATE      EXPI
---------- ---------- --------- ----------
SMITH          2800 17-DEC-80  43.322348
ALLEN          3600 20-FEB-81 43.1442658
WARD          10700 22-FEB-81 43.1387863
JONES          5570 02-APR-81  43.031937
MARTIN         3250 28-SEP-81  42.541526
BLAKE          5420 01-MAY-81 42.9524849
CLARK          4940 09-JUN-81 42.8456356
```

```
SCOTT          5000 09-DEC-82 41.3442658
KING           7000 17-NOV-81 42.4045397
TURNER         3500 08-SEP-81 42.5963206
ADAMS          3100 12-JAN-83 41.2511151
JAMES          2950 03-DEC-81 42.3607041
FORD           5000 03-DEC-81 42.3607041
MILLER         3300 23-JAN-82 42.2209781

14 rows selected.
```

SQL> SELECT ENAME,SAL,HIREDATE,TRUNC((SYSDATE-HIREDATE)/365) AS EXPI FROM EMP;

```
ENAME          SAL HIREDATE       EXPI
---------- ---------- --------- ----------
SMITH          2800 17-DEC-80      43
ALLEN          3600 20-FEB-81      43
WARD          10700 22-FEB-81      43
JONES          5570 02-APR-81      43
MARTIN         3250 28-SEP-81      42
BLAKE          5420 01-MAY-81      42
CLARK          4940 09-JUN-81      42
SCOTT          5000 09-DEC-82      41
KING           7000 17-NOV-81      42
TURNER         3500 08-SEP-81      42
ADAMS          3100 12-JAN-83      41
JAMES          2950 03-DEC-81      42
FORD           5000 03-DEC-81      42
MILLER         3300 23-JAN-82      42

14 rows selected.
```

SQL> UPDATE EMP SET SAL =SAL+SAL*0.2 WHERE TRUNC((SYSDATE-HIREDATE)/365)>42;

4 rows updated.

```
SQL> SELECT ENAME,SAL,HIREDATE FROM EMP;

ENAME          SAL HIREDATE
---------- ---------- ---------
SMITH          3360 17-DEC-80
ALLEN          4320 20-FEB-81
WARD          12840 22-FEB-81
JONES          6684 02-APR-81
MARTIN         3250 28-SEP-81
BLAKE          5420 01-MAY-81
CLARK          4940 09-JUN-81
SCOTT          5000 09-DEC-82
KING           7000 17-NOV-81
TURNER         3500 08-SEP-81
ADAMS          3100 12-JAN-83
JAMES          2950 03-DEC-81
FORD           5000 03-DEC-81
MILLER         3300 23-JAN-82

14 rows selected.




SQL> SELECT ENAME,SAL FROM EMP
  2  ;

ENAME          SAL
---------- ----------
SMITH          3360
ALLEN          4320
WARD          12840
JONES          6684
MARTIN         3250
BLAKE          5420
CLARK          4940
SCOTT          5000
KING           7000
TURNER         3500
ADAMS          3100
JAMES          2950
FORD           5000
```

MILLER   3300

14 rows selected.

SQL> SELECT ENAME,SAL,SAL*12 "ANNU SAL" FROM EMP
  2 ;

ENAME   SAL ANNU SAL
---------- ---------- ----------
SMITH   3360   40320
ALLEN   4320   51840
WARD   12840   154080
JONES   6684   80208
MARTIN   3250   39000
BLAKE   5420   65040
CLARK   4940   59280
SCOTT   5000   60000
KING   7000   84000
TURNER   3500   42000
ADAMS   3100   37200
JAMES   2950   35400
FORD   5000   60000
MILLER   3300   39600

14 rows selected.

Q Increase 10% on salary to the emps whose annual salary is more than 40000:

SQL> UPDATE EMP SET SAL=SAL+SAL*0.1 WHERE SAL*12>40000;

10 rows updated.

SQL> SELECT ENAME,SAL FROM EMP
  2 ;

```
ENAME          SAL
---------- ----------
SMITH          3696
ALLEN          4752
WARD          14124
JONES        7352.4
MARTIN         3250
BLAKE          5962
CLARK          5434
SCOTT          5500
KING           7700
TURNER         3850
ADAMS          3100
JAMES          2950
FORD           5500
MILLER         3300
```

14 rows selected.

Q Increase 2000 rupees salary to the emps who joined in 1982:

SQL> UPDATE EMP SET SAL=SAL+2000 WHERE HIREDATE BETWEEN '1-JAN-1982' AND '31-DEC-1982';

2 rows updated.

```
SQL> SELECT ENAME,SAL,HIREDATE FROM EMP
  2 ;

ENAME           SAL HIREDATE
---------- ---------- ---------
SMITH          3696 17-DEC-80
ALLEN          4752 20-FEB-81
WARD          14124 22-FEB-81
JONES        7352.4 02-APR-81
MARTIN         3250 28-SEP-81
BLAKE          5962 01-MAY-81
CLARK          5434 09-JUN-81
SCOTT          7500 09-DEC-82
KING           7700 17-NOV-81
TURNER         3850 08-SEP-81
ADAMS          3100 12-JAN-83
JAMES          2950 03-DEC-81
FORD           5500 03-DEC-81
MILLER         5300 23-JAN-82

14 rows selected.
```

QIncrease 1000 rupees salary to the emps who joined in DEC month:

```
SQL> UPDATE EMP SET SAL=SAL+1000 WHERE HIREDATE LIKE '%DEC%';

4 rows updated.
```

```
SQL> SELECT ENAME,SAL,HIREDATE FROM EMP
  2  ;

ENAME            SAL HIREDATE
---------- ---------- ---------
SMITH            4696 17-DEC-80
ALLEN            4752 20-FEB-81
WARD            14124 22-FEB-81
JONES          7352.4 02-APR-81
MARTIN           3250 28-SEP-81
BLAKE            5962 01-MAY-81
CLARK            5434 09-JUN-81
SCOTT            8500 09-DEC-82
KING             7700 17-NOV-81
TURNER           3850 08-SEP-81
ADAMS            3100 12-JAN-83
JAMES            3950 03-DEC-81
FORD             6500 03-DEC-81
MILLER           5300 23-JAN-82

14 rows selected.

SQL> CREATE TABLE EMPLOYEE(
  2  EMPNO NUMBER(10),
  3  ENAME VARCHAR2(20),
  4  SAL NUMBER(8,2),
  5  TA NUMBER(8,2),
  6  HRA NUMBER(8,2),
  7  TAX NUMBER(8,2),
  8  GROSS NUMBER(8,2));

Table created.

SQL> COMMIT;

SQL> CREATE TABLE EMPLOYEE(
```

```
  2  EMNO NUMBER(10),
  3  ENAME VARCHAR2(10),
  4  ESAL NUMBER(8,2),
  5  TA NUMBER(8,2),
  6  HRA NUMBER(8,2),
  7  TAX NUMBER(8,2));

Table created.

SQL> DESC EMPLOYEE;
 Name                                    Null?    Type
 ---------------------------------------- -------- --------------------------
 EMNO                                              NUMBER(10)
 ENAME                                             VARCHAR2(10)
 ESAL                                              NUMBER(8,2)
 TA                                                NUMBER(8,2)
 HRA                                               NUMBER(8,2)
 TAX                                               NUMBER(8,2)

SQL> insert into employee values(&EMPNO,'&ENAME',&ESAL,&TA,&HRA,&TAX);
Enter value for empno: 1001
Enter value for ename: A
Enter value for esal: 8000.00
Enter value for ta: NULL
Enter value for hra: NULL
Enter value for tax: NULL
old   1: insert into employee values(&EMPNO,'&ENAME',&ESAL,&TA,&HRA,&TAX)
new   1: insert into employee values(1001,'A',8000.00,NULL,NULL,NULL)

1 row created.

SQL> /
Enter value for empno: 1002
Enter value for ename: B
Enter value for esal: 8500.00
Enter value for ta: NULL
Enter value for hra: NULL
Enter value for tax: NULL
old   1: insert into employee values(&EMPNO,'&ENAME',&ESAL,&TA,&HRA,&TAX)
new   1: insert into employee values(1002,'B',8500.00,NULL,NULL,NULL)

1 row created.

SQL> /
```

Enter value for empno: 1003
Enter value for ename: C
Enter value for esal: 7500.00
Enter value for ta: NULL
Enter value for hra: NULL
Enter value for tax: NULL
old   1: insert into employee values(&EMPNO,'&ENAME',&ESAL,&TA,&HRA,&TAX)
new   1: insert into employee values(1003,'C',7500.00,NULL,NULL,NULL)

1 row created.

SQL> SELECT * FROM EMPLOYEE;

```
    EMNO ENAME         ESAL      TA      HRA      TAX
---------- ---------- ---------- ---------- ---------- ----------
    1001 A             8000
    1002 B             8500
    1003 C             7500
```

DELETE:

- **It is DML command.**
- **It is used to delete the records from table.**

- **Using DELETE command we can delete:**

○ **single record**
○ **specific group of records**
○ **all records**

DELETE [FROM] <table_name>
[WHERE <condition>];

```
SQL> SET PAGESIZE 800 LINESIZE 800
SQL> SELECT * FROM EMP;

    EMPNO ENAME      JOB         MGR HIREDATE      SAL     COMM    DEPTNO
---------- ---------- --------- ---------- --------- ---------- ---------- ----------
     7369 SMITH      CLERK       7902 17-DEC-80     4696      900        20
     7499 ALLEN      SALESMAN    7698 20-FEB-81     4752                 30
     7521 WARD       MANAGER     7698 22-FEB-81    14124                 30
     7566 JONES      MANAGER     7839 02-APR-81   7352.4      900        20
     7654 MARTIN     SALESMAN    7698 28-SEP-81     3250     1400        30
     7698 BLAKE      MANAGER     7839 01-MAY-81     5962                 30
     7782 CLARK      MANAGER     7839 09-JUN-81     5434      900        20
     7788 SCOTT      ANALYST     7566 09-DEC-82     8500      900        20
     7839 KING       PRESIDENT        17-NOV-81     7700      900        20
     7844 TURNER     SALESMAN    7698 08-SEP-81     3850      900        30
     7876 ADAMS      CLERK       7788 12-JAN-83     3100      900        20
     7900 JAMES      CLERK       7698 03-DEC-81     3950      900        30
     7902 FORD       ANALYST     7566 03-DEC-81     6500      900        20
     7934 MILLER     CLERK       7782 23-JAN-82     5300      900        20

14 rows selected.
```

Q DELECT REC DEPTNO=20

SQL> DELETE FROM EMP WHERE DEPTNO=20;

8 rows deleted.

SQL> SELECT * FROM EMP;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	ALLEN	SALESMAN	7698	20-FEB-81	4752		30
7521	WARD	MANAGER	7698	22-FEB-81	14124		30
7654	MARTIN	SALESMAN	7698	28-SEP-81	3250	1400	30
7698	BLAKE	MANAGER	7839	01-MAY-81	5962		30
7844	TURNER	SALESMAN	7698	08-SEP-81	3850	900	30
7900	JAMES	CLERK	7698	03-DEC-81	3950	900	30

6 rows selected.

Q DELECT REC COMM IS NULL

SQL> DELETE FROM EMP WHERE COMM IS NULL;

3 rows deleted.

SQL> SELECT * FROM EMP;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7654	MARTIN	SALESMAN	7698	28-SEP-81	3250	1400	30
7844	TURNER	SALESMAN	7698	08-SEP-81	3850	900	30
7900	JAMES	CLERK	7698	03-DEC-81	3950	900	30

Q DELECT REC JOB=SELESMAN

SQL> DELETE FROM EMP WHERE JOB='SALESMAN';

2 rows deleted.

SQL> SELECT * FROM EMP;

```
    EMPNO ENAME     JOB          MGR HIREDATE      SAL      COMM    DEPTNO
---------- ---------- --------- ---------- --------- ---------- ---------- ----------
     7900 JAMES     CLERK       7698 03-DEC-81     3950      900      30
```

SQL>