

1&2)

```
SQL> DESCRIBE EMP_TB;
Name                               Null?     Type
-----
EMPNO                               NUMBER(4)
ENAME                               VARCHAR2(25)
JOB                                 VARCHAR2(12)
SALARY                              NUMBER(10,2)
COMMISSION                          NUMBER(7,2)
DEPTNO                              NUMBER(2)

SQL> SELECT * FROM EMP_TB;

no rows selected

SQL> INSERT INTO EMP_TB(EMPNO,ENAME,JOB,SALARY,COMMISSION,DEPTNO)VALUES(7369, 'SMITH', 'CLERK',2000,800,20);

1 row created.

SQL> SELECT * FROM EMP_TB;

   EMPNO  ENAME      JOB      SALARY  COMMISSION
-----
   DEPTNO
-----
      7369 SMITH      CLERK      2000      800
         20

SQL> INSERT INTO EMP_TB(EMPNO,ENAME,JOB,SALARY,COMMISSION,DEPTNO)VALUES(&A, '&B', '&C', &D, &E, &F);
Enter value for a: 7499
Enter value for b: ALLEN
Enter value for c: SALESMAN
Enter value for d: 1600
Enter value for e: 300
Enter value for f: 30
old   1: INSERT INTO EMP_TB(EMPNO,ENAME,JOB,SALARY,COMMISSION,DEPTNO)VALUES(&A, '&B', '&C', &D, &E, &F)
new   1: INSERT INTO EMP_TB(EMPNO,ENAME,JOB,SALARY,COMMISSION,DEPTNO)VALUES(7499, 'ALLEN', 'SALESMAN', 1600, 300, 30)

1 row created.
```

3&4)

```
1 row created.

SQL> INSERT INTO EMP_TB(EMPNO,ENAME,JOB,SALARY,COMMISSION,DEPTNO)VALUES(&A, '&B', '&C', &D, &E, &F);
Enter value for a: 7654
Enter value for b: MARTIN
Enter value for c: SALESMAN
Enter value for d: 1250
Enter value for e: 1400
Enter value for f: 30
old   1: INSERT INTO EMP_TB(EMPNO,ENAME,JOB,SALARY,COMMISSION,DEPTNO)VALUES(&A, '&B', '&C', &D, &E, &F)
new   1: INSERT INTO EMP_TB(EMPNO,ENAME,JOB,SALARY,COMMISSION,DEPTNO)VALUES(7654, 'MARTIN', 'SALESMAN', 1250, 1400, 30)

1 row created.

SQL> INSERT INTO EMP_TB(EMPNO,ENAME,JOB,SALARY,COMMISSION,DEPTNO)VALUES(&A, '&B', '&C', &D, &E, &F);
Enter value for a: 7698
Enter value for b: BLAKE
Enter value for c: MANAGER
Enter value for d: 2850
Enter value for e: NULL
Enter value for f: 30
old   1: INSERT INTO EMP_TB(EMPNO,ENAME,JOB,SALARY,COMMISSION,DEPTNO)VALUES(&A, '&B', '&C', &D, &E, &F)
new   1: INSERT INTO EMP_TB(EMPNO,ENAME,JOB,SALARY,COMMISSION,DEPTNO)VALUES(7698, 'BLAKE', 'MANAGER', 2850, NULL, 30)

1 row created.
```

```
SQL> SELECT * FROM EMP_TB;
```

EMPNO	ENAME	JOB	SALARY	COMMISSION
7369 20	SMITH	CLERK	2000	800
7499 30	ALLEN	SALESMAN	1600	300
7521	WARD	SALESMAN	1250	500

EMPNO	ENAME	JOB	SALARY	COMMISSION
7566 20	JONES	MANAGER	2975	
7654 30	MARTIN	SALESMAN	1250	1400
7698 30	BLAKE	MANAGER	2850	

EMPNO	ENAME	JOB	SALARY	COMMISSION
7782 10	CLARK	MANAGER	2450	
7788 20	SCOTT	ANALYST	3000	
7839 10	KING	PRESIDENT	5000	

EMPNO	ENAME	JOB	SALARY	COMMISSION
-----				
DEPTNO				
-----				
7844 30	TURNER	SALESMAN	1500	
7876 20	ADAMS	CLERK	1100	
7900 30	JAMES	NULL	950	
EMPNO	ENAME	JOB	SALARY	COMMISSION
-----				
DEPTNO				
-----				
7902 20	FORD	ANALYST	3000	
7934 10	MILLER	CLERK	1300	

14 rows selected.

SQL> UPDATE EMP\_TB SET COMMISSION=30 WHERE EMPNO=7521;

1 row updated.

SQL> SELECT \* FROM EMP\_TB;

EMPNO	ENAME	JOB	SALARY	COMMISSION
-----				
DEPTNO				
-----				
7369 20	SMITH	CLERK	2000	800
7499 30	ALLEN	SALESMAN	1600	300
7521	WARD	SALESMAN	1250	30

14 rows selected.

```
SQL> UPDATE EMP_TB SET COMMISSION=30 WHERE EMPNO=7521;
```

1 row updated.

```
SQL> SELECT * FROM EMP_TB;
```

EMPNO	ENAME	JOB	SALARY	COMMISSION
-----				
DEPTNO				
-----				
7369	SMITH	CLERK	2000	800
20				
7499	ALLEN	SALESMAN	1600	300
30				
7521	WARD	SALESMAN	1250	30
EMPNO	ENAME	JOB	SALARY	COMMISSION
-----				
DEPTNO				
-----				
7566	JONES	MANAGER	2975	
20				
7654	MARTIN	SALESMAN	1250	1400
30				
7698	BLAKE	MANAGER	2850	
30				
EMPNO	ENAME	JOB	SALARY	COMMISSION
-----				
DEPTNO				

5)

```
SQL> UPDATE EMP_TB SET JOB='CLERK' WHERE JOB='NULL';
```

```
1 row updated.
```

```
SQL> SELECT * FROM EMP_TB;
```

EMPNO	ENAME	JOB	SALARY	COMMISSION
7369	SMITH	CLERK	2000	800
7499	ALLEN	SALESMAN	1600	300
7521	WARD	SALESMAN	1250	30

  

EMPNO	ENAME	JOB	SALARY	COMMISSION
7566	JONES	MANAGER	2975	
7654	MARTIN	SALESMAN	1250	1400
7698	BLAKE	MANAGER	2850	

  

EMPNO	ENAME	JOB	SALARY	COMMISSION
7782	CLARK	MANAGER	2450	
7788	SCOTT	ANALYST	3000	
7839	KING	PRESIDENT	5000	

6)

```
SQL> ALTER TABLE EMP_TB ADD DATE_JOIN date;
```

Table altered.

```
SQL> describe emp_tb;
```

Name	Null?	Type
EMPNO		NUMBER(4)
ENAME		VARCHAR2(25)
JOB		VARCHAR2(12)
SALARY		NUMBER(10,2)
COMMISSION		NUMBER(7,2)
DEPTNO		NUMBER(2)
DATE_JOIN		DATE

```
SQL> INSERT INTO EMP_TB(DATE_JOIN)VALUES('&A');
```

Enter value for a: 17-DEC-80

```
old 1: INSERT INTO EMP_TB(DATE_JOIN)VALUES('&A')
```

```
new 1: INSERT INTO EMP_TB(DATE_JOIN)VALUES('17-DEC-80')
```

1 row created.

```
SQL> UPDATE EMP_TB SET DATE_JOIN='20-FEB-81' WHERE EMPNO=7499;
```

1 row updated.

```
SQL> UPDATE EMP_TB SET DATE_JOIN='22-FEB-81' WHERE EMPNO=7521;
```

1 row updated.

```
SQL> UPDATE EMP_TB SET DATE_JOIN='02-APR-81' WHERE EMPNO=7566;
```

1 row updated.

```
SQL> UPDATE EMP_TB SET DATE_JOIN='28-SEP-81' WHERE EMPNO=7654;
```

1 row updated.

```
SQL> SELECT * FROM EMP_TB;
```

EMPNO	ENAME	JOB	SALARY	COMMISSION
7369	SMITH	CLERK	2000	800
7499	ALLEN	SALESMAN	1600	300
7521	WARD	SALESMAN	1250	30

8 & 9)

```
SQL> SELECT DISTINCT JOB FROM EMP_TB;
```

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

6 rows selected.

```
SQL> SELECT ENAME FROM EMP_TB WHERE DEPTNO IN(20,30);
```

```
ENAME
-----
SMITH
ALLEN
JONES
MARTIN
BLAKE
SCOTT
TURNER
ADAMS
JAMES
FORD
```

10 rows selected.

```
SQL> SELECT ENAME,SALARY+COMMISSION AS 'TOTAL SALARY' FROM EMP_TB;
```

```
SELECT ENAME,SALARY+COMMISSION AS 'TOTAL SALARY' FROM EMP_TB
*
```

ERROR at line 1:  
ORA-00923: FROM keyword not found where expected

```
SQL> SELECT ENAME (SALARY+COMMISSION) AS "TOTAL SALARY" FROM EMP_TB;
```

```
SELECT ENAME (SALARY+COMMISSION) AS "TOTAL SALARY" FROM EMP_TB
*
```

ERROR at line 1:  
ORA-00904: "ENAME": invalid identifier

10)

```
SQL> SELECT ENAME,(SALARY+COMMISSION) AS "TOTAL SALARY" FROM EMP_TB;
```

ENAME	TOTAL SALARY
SMITH	2800
ALLEN	1900
WARD	1280
JONES	
MARTIN	2650
BLAKE	
CLARK	
SCOTT	
KING	
TURNER	
ADAMS	

ENAME	TOTAL SALARY
JAMES	
FORD	
MILLER	

15 rows selected.

11)

```
SQL> SELECT ENAME,(SALARY*12) AS "ANNUAL SALARY" FROM EMP_TB;
```

ENAME	ANNUAL SALARY
SMITH	24000
ALLEN	19200
WARD	15000
JONES	35700
MARTIN	15000
BLAKE	34200
CLARK	29400
SCOTT	36000
KING	60000
TURNER	18000
ADAMS	13200

ENAME	ANNUAL SALARY
JAMES	11400
FORD	36000
MILLER	15600



12)

```
SQL> SELECT *FROM EMP_TB WHERE DATE_JOIN='03-DEC-81';
```

EMPNO	ENAME	JOB	SALARY	COMMISSION
7900	JAMES	CLERK	950	
30	03-DEC-81			
7902	FORD	ANALYST	3000	
20	03-DEC-81			

13)

```
SQL> SELECT ENAME,SALARY AS "TOTAL SALARY" FROM EMP_TB WHERE ENAME='MILLER';
```

ENAME	TOTAL SALARY
MILLER	1300

14)

```
SQL> DELETE FROM EMP_TB WHERE ENAME='MILLER';
```

1 row deleted.

```
SQL> SELECT * FROM EMP_TB;
```

16)

```
SQL> UPDATE EMP_TB SET SALARY=SALARY+COMMISSION;
```

```
4 rows updated.
```

```
SQL> SELECT * FROM EMP_TB;
```

EMPNO	ENAME	JOB	SALARY	COMMISSION
7369	SMITH	CLERK	3600	800
7499	ALLEN	SALESMAN	1900	300
7521	WARD	SALESMAN	1280	30

```
SQL> ALTER TABLE EMP_TB DROP COLUMN COMMISSION;
```

```
table altered.
```

```
SQL> SELECT * FROM EMP_TB;
```

EMPNO	ENAME	JOB	SALARY	DEPTNO
7369	SMITH	CLERK	3600	20
7499	ALLEN	SALESMAN	1900	30
7521	WARD	SALESMAN	1280	

18)

```
SQL> SELECT EMPNO AS "EMP_ID",ENAME AS "NAME" FROM EMP_TB;
```

EMP_ID	NAME
7369	SMITH
7499	ALLEN
7521	WARD
7566	JONES
7654	MARTIN
7698	BLAKE
7782	CLARK
7788	SCOTT
7839	KING
7844	TURNER
7876	ADAMS

  

EMP_ID	NAME
7900	JAMES
7902	FORD

19)

```
SQL> RENAME EMP_TB TO EMPLOYEE;
```

```
Table renamed.
```

```
SQL>
```

20)

```
SQL> CREATE TABLE EMP_TAB AS SELECT EMPNO,ENAME,JOB FROM EMPLOYEE;
```

Table created.

```
SQL> SELECT * FROM EMP_TAB;
```

EMPNO	ENAME	JOB
7369	SMITH	CLERK
7499	ALLEN	SALESMAN
7521	WARD	SALESMAN
7566	JONES	MANAGER
7654	MARTIN	SALESMAN
7698	BLAKE	MANAGER
7782	CLARK	MANAGER
7788	SCOTT	ANALYST
7839	KING	PRESIDENT
7844	TURNER	SALESMAN
7876	ADAMS	CLERK
7900	JAMES	CLERK
7902	FORD	ANALYST

22.

ORA-00907: missing right parenthesis

```
SQL> truncate table emp;
```

23.

```
SQL> delete table emp;
```