```
SQL> CREATE TABLE EMPLOYEES
  2  AS
  3  SELECT *
  4  FROM EMP;

Table created.

SQL> SELECT EMPNO, ENAME, JOB, SAL, COMM
  2  FROM EMPLOYEES
  3  WHERE JOB ='CLERK';

EMPNO ENAME  JOB          SAL  COMM
----- ------ ---------- ----- -----
 7900 JAMES  CLERK        950
 7369 SMITH  CLERK        800
 7876 ADAMS  CLERK       1100
 7934 MILLER CLERK       1300

SQL> UPDATE EMPLOYEES
  2  SET COMM = NULL
  3  WHERE JOB = 'CLERK';

4 rows updated.

SQL> SELECT EMPNO, ENAME, JOB, SAL, COMM
  2  FROM EMPLOYEES
  3  WHERE JOB ='CLERK';

EMPNO ENAME  JOB          SAL  COMM
----- ------ ---------- ----- -----
 7900 JAMES  CLERK        950
 7369 SMITH  CLERK        800
 7876 ADAMS  CLERK       1100
 7934 MILLER CLERK       1300

SQL> UPDATE EMPLOYEES
  2  SET SAL=NULL
  3  WHERE JOB='MANAGER';

3 rows updated.

SQL> SELECT EMPNO, ENAME, JOB, SAL, COMM
  2  FROM EMPLOYEES
  3  WHERE JOB ='MANAGER';

EMPNO ENAME  JOB          SAL  COMM
----- ------ ---------- ----- -----
 7566 JONES  MANAGER
 7698 BLAKE  MANAGER
 7782 CLARK  MANAGER

SQL> UPDATE EMPLOYEES
  2  SET JOB='MANAGER',
  3      SAL=2500,
```

```
   4        DEPTNO=10
   5  WHERE ENAME='ALLEN';

1 row updated.

SQL> UPDATE EMPLOYEES
   2  SET
   3  JOB='ANALYST',
   4  SAL= (SELECT SAL
   5          FROM EMP
   6          WHERE ENAME='BLAKE'
   7          ) + 1000
   8  WHERE ENAME='BLAKE';

1 row updated.

SQL> UPDATE EMPLOYEES
   2  SET
   3  (JOB,DEPTNO)=(SELECT JOB,DEPTNO
   4                          FROM EMPLOYEES
   5                          WHERE EMPNO=7499
   6                          )
   7  WHERE EMPNO=7698;

1 row updated.

SQL> UPDATE EMPLOYEES
   2  SET SAL=SAL * 1.10
   3  WHERE DEPTNO=
   4  (
   5  SELECT DEPTNO
   6  FROM DEPT
   7  WHERE LOC='CHICAGO'
   8  );

4 rows updated.

SQL> UPDATE EMPLOYEES E1
   2  SET DEPTNO=
   3  (
   4  SELECT DEPTNO
   5  FROM DEPT
   6  WHERE LOC='DALLAS'
   7  ),
   8  (SAL,COMM)=
   9  (
  10  SELECT 1.1 * AVG(SAL),
  11          1.5 * AVG(COMM)
  12  FROM EMPLOYEES E2
  13  WHERE E1.DEPTNO=E2.DEPTNO
  14  )
  15  WHERE DEPTNO IN
  16  (
  17  SELECT DEPTNO
```

```
  18   FROM DEPT
  19   WHERE LOC='NEW YORK' OR LOC='BOSTON'
  20   );

5 rows updated.

SQL> CREATE TABLE SAMPDEF
  2   (
  3   SAMPID   NUMBER(2) DEFAULT 99,
  4   SAMPNAME  VARCHAR2(10) DEFAULT 'NOT GIVEN',
  5   SAMPDATE DATE DEFAULT SYSDATE
  6   );

Table created.

SQL> INSERT INTO SAMPDEF(SAMPID,SAMPNAME)
  2   VALUES(1,'SAMPLE01');

1 row created.

SQL> SELECT * FROM SAMPDEF;

    SAMPID SAMPNAME    SAMPDATE
---------- ---------- ---------
         1 SAMPLE01   08-JAN-24

SQL> UPDATE SAMPDEF
  2   SET SAMPID=DEFAULT
  3   WHERE SAMPID=1;

1 row updated.

SQL> SELECT * FROM SAMPDEF;

    SAMPID SAMPNAME    SAMPDATE
---------- ---------- ---------
        99 SAMPLE01   08-JAN-24

SQL> UPDATE SAMPDEF
  2   SET SAMPNAME=DEFAULT
  3   WHERE SAMPID=3;

0 rows updated.

SQL> INSERT INTO SAMPDEF
  2   VALUES(4,DEFAULT);
INSERT INTO SAMPDEF
            *
ERROR at line 1:
ORA-00947: not enough values


SQL> UPDATE SAMPDEF
  2   SET SAMPNAME='SAMPLENEW'
```

```
    3  WHERE SAMPNAME=DEFAULT;
WHERE SAMPNAME=DEFAULT
                *
ERROR at line 3:
ORA-00936: missing expression


SQL> SELECT DEPTNO,SUM(SAL)
    2  FROM EMPLOYEES
    3  GROUP BY DEPTNO
    4  ORDER BY DEPTNO;

DEPTNO   SUM(SAL)
------ ----------
    20   25293.75
    30       5445

SQL> UPDATE EMPLOYEES
    2  SET SAL=SAL + 1000
    3  WHERE DEPTNO=10;

3 rows updated.

SQL> UPDATE EMPLOYEES
    2  SET SAL=SAL + 1000
    3  WHERE DEPTNO=10;

3 rows updated.

SQL> SELECT * FROM EMPLOYEES WHERE DEPTNO = 10;

EMPNO ENAME  JOB         MGR HIREDATE    SAL  COMM DEPTNO
----- ------ ---------- ----- --------- ----- ----- ------
 7782 CLARK  MANAGER    7839 09-JUN-81  3450          10
 7839 KING   PRESIDENT       17-NOV-81  6000          10
 7934 MILLER CLERK      7782 23-JAN-82  2300          10

SQL> VARIABLE BDEPT10SALSUM NUMBER
SQL> VARIABLE BDEPT10SALAVG NUMBER
SQL> SELECT DEPTNO,SUM(SAL)
    2  FROM EMPLOYEES
    3  GROUP BY DEPTNO;

DEPTNO   SUM(SAL)
------ ----------
    30       5445
    20   25293.75
    10      11750

SQL> UPDATE EMPLOYEES
    2  SET SAL = SAL + 1000
    3  WHERE DEPTNO=10
    4  RETURNING SUM(SAL), AVG(SAL) INTO :BDEPT10SALSUM, :BDEPT10SALAVG;
```

```
3 rows updated.

SQL> PRINT BDEPT10SALSUM;

BDEPT10SALSUM
-------------
        14750

SQL> PRINT BDEPT10SALAVG;

BDEPT10SALAVG
-------------
    4916.66667

SQL> SELECT :BDEPT10SALAVG FROM DUAL;

:BDEPT10SALAVG
--------------
    4916.66667

SQL> SPOOL OFF
```