**1. Create an employee  table ‘EMP’ with following fields :**

**empno                  NUMBER(2)**

**ename                   VARCHAR2(25)**

**job                     VARCHAR2(12)**

**salary                   NUMBER(10,2)**

**commission          NUMBER(7,2)**

**deptno                 NUMBER(2)**

CREATE TABLE EMPLOYEE(empno NUMBER(4),ename VARCHAR(25),job VARCHAR(12),salary NUMBER(10,2),commission NUMBER(7,2),deptno NUMBER(2));

Table created

**2. Display the structure of ‘EMP’**

DESCRIBE EMPLOYEE

Name Null? Type

----------------------------------------- -------- ----------------------------

EMPNO NUMBER(4)

ENAME VARCHAR2(25)

JOB VARCHAR2(12)

SALARY NUMBER(10,2)

COMMISSION NUMBER(7,2)

DEPTNO NUMBER(2)

**3.Insert the following record into ‘EMP’**

INSERT INTO EMPLOYEE VALUES('7369','SMITH','CLERK',2000,800,20);

SELECT \* fROM EMPLOYEE;

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO

----------

7369 SMITH CLERK 2000 800

20

4. Insert the rest of records using substitution variable.

**EMPNO ENAME      JOB                     SAL         COMM    DEPTNO**

7499 ALLEN      SALESMAN        1600       300          30

7521 WARD       SALESMAN        1250       500         30

7566 JONES      MANAGER         2975            20

7654 MARTIN    SALESMAN        1250       1400        30

7698 BLAKE      MANAGER       2850                   30

7782 CLARK      MANAGER        2450                     10

7788 SCOTT      ANALYST         3000                   20

7839 KING       PRESIDENT       5000                   10

7844 TURNER     SALESMAN       1500                   30

7876 ADAMS      CLERK           1100                   20

7900 JAMES      NULL           950                    30

7902 FORD ANALYST 3000 20

7934 MILLER     CLERK           1300           10

INSERT INTO EMPLOYEE VALUES(7499,'ALLEN','SALESMAN',1600,300,30);

1 row created.

INSERT INTO EMPLOYEE VALUES(7521,'WARD','SALESMAN',1250,500,30);

1 row created.

INSERT INTO EMPLOYEE(EMPNO,ENAME,JOB,SALARY,DEPTNO) VALUES(7566,'JONES','MANAGER',2975,20);

1 row created.

INSERT INTO EMPLOYEE VALUES(7654,'MARTIN','SALESMAN',1250,1400,30);

1 row created.

INSERT INTO EMPLOYEE(EMPNO,ENAME,JOB,SALARY,DEPTNO) VALUES (7698,'BLAKE','MANAGER',2850,30);

1 row created.

INSERT INTO EMPLOYEE(EMPNO,ENAME,JOB,SALARY,DEPTNO) VALUES (7782,'CLARK','MANAGER',2450,10);

1 row created.

INSERT INTO EMPLOYEE(EMPNO,ENAME,JOB,SALARY,DEPTNO) VALUES (7788,'SCOTT','ANALYST',3000,20);

1 row created.

INSERT INTO EMPLOYEE(EMPNO,ENAME,JOB,SALARY,DEPTNO) VALUES (7839,'KING','PRESIDENT',5000,10);

1 row created.

INSERT INTO EMPLOYEE(EMPNO,ENAME,JOB,SALARY,DEPTNO) VALUES (7844,'TURNER','SALESMAN',1500,30);

1 row created.

INSERT INTO EMPLOYEE(EMPNO,ENAME,JOB,SALARY,DEPTNO) VALUES (7876,'ADAMS','CLERK',1100,20);

1 row created.

INSERT INTO EMPLOYEE(EMPNO,ENAME,JOB,SALARY,DEPTNO) VALUES (7900,'JAMES','NULL',950,30);

1 row created.

INSERT INTO EMPLOYEE(EMPNO,ENAME,JOB,SALARY,DEPTNO) VALUES (7902,'FORD','ANALYST',3000,20);

1 row created.

INSERT INTO EMPLOYEE(EMPNO,ENAME,JOB,SALARY,DEPTNO) VALUES (7934,'MILLER','CLERK',1300,10);

1 row created.

SELECT \*FROM EMPLOYEE;

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO

----------

7369 SMITH CLERK 2000 800

20

7499 ALLEN SALESMAN 1600 300

30

7521 WARD SALESMAN 1250 500

30

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO

----------

7566 JONES MANAGER 2975

2

7654 MARTIN SALESMAN 1250 1400

30

7698 BLAKE MANAGER 2850

30

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO

----------

7782 CLARK MANAGER 2450

10

7788 SCOTT ANALYST 3000

20

7839 KING PRESIDENT 5000

10

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO

----------

7844 TURNER SALESMAN 1500

30

7876 ADAMS CLERK 1100

20

7900 JAMES NULL 950

30

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO

----------

7902 FORD ANALYST 3000

20

7934 MILLER CLERK 1300

10

14 rows selected.

**5. Insert job  as ‘CLERK’ for all ‘NULL’ job types.**

SQL> UPDATE EMPLOYEE SET JOB='CLERK' WHERE JOB='NULL';

1 row updated.

SQL> SELECT \*FROM EMPLOYEE;

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO

----------

7369 SMITH CLERK 2000 800

20

7499 ALLEN SALESMAN 1600 300

30

7521 WARD SALESMAN 1250 500

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

----------

7782 CLARK MANAGER 2450

10

7788 SCOTT ANALYST 3000

20

7839 KING PRESIDENT 5000

10

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO

----------

7844 TURNER SALESMAN 1500

30

7876 ADAMS CLERK 1100

20

7900 JAMES CLERK 950

30

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO

----------

7902 FORD ANALYST 3000

20

7934 MILLER CLERK 1300

10

14 rows selected.

**6. Add a new field  ‘date\_join’ with following values**

**date\_join**

17-DEC-80

20-FEB-81

22-FEB-81

02-APR-81

28-SEP-81

01-MAY-81

09-JUN-81

19-APR-87

17-NOV-81

08-SEP-81

23-MAY-87

03-DEC-81

03-DEC-81

23-JAN-82

SQL> ALTER TABLE EMPLOYEE ADD date\_join date;

Table altered.

SQL> UPDATE EMPLOYEE SET DATE\_JOIN='17-DEC-80' WHERE empno=7369;

1 row updated.

SQL> UPDATE EMPLOYEE SET DATE\_JOIN='20-FEB-81' WHERE empno=7521;

1 row updated.

SQL> UPDATE EMPLOYEE SET DATE\_JOIN='22-FEB-81' WHERE empno=7566;

1 row updated.

SQL> UPDATE EMPLOYEE SET DATE\_JOIN='02-APR-81' WHERE empno=7654;

1 row updated.

SQL> UPDATE EMPLOYEE SET DATE\_JOIN='28-SEP-81' WHERE empno=7698;

1 row updated.

SQL> UPDATE EMPLOYEE SET DATE\_JOIN='01-MAY-81' WHERE empno=7782;

1 row updated.

SQL> UPDATE EMPLOYEE SET DATE\_JOIN='09-JUN-81' WHERE empno=7788;

1 row updated.

SQL> UPDATE EMPLOYEE SET DATE\_JOIN='19-APR-87' WHERE empno=7839;

1 row updated.

SQL> UPDATE EMPLOYEE SET DATE\_JOIN='17-NOV-81' WHERE empno=7844;

1 row updated.

SQL> UPDATE EMPLOYEE SET DATE\_JOIN='08-SEP-81' WHERE empno=7876;

1 row updated.

SQL> UPDATE EMPLOYEE SET DATE\_JOIN='23-MAY-87' WHERE empno=7900;

1 row updated.

SQL> UPDATE EMPLOYEE SET DATE\_JOIN='03-DEC-81' WHERE empno=7902;

1 row updated.

SQL>

SQl> UPDATE EMPLOYEE SET DATE\_JOIN='03-DEC-81' WHERE empno=7934;

1. row updated.

**7. Display details of all employees.**

SQL> SELECT \* FROM EMPLOYEE;

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO DATE\_JOIN

---------- ---------

7369 SMITH CLERK 2000 800

20 17-DEC-80

7499 ALLEN SALESMAN 1600 300

30

7521 WARD SALESMAN 1250 500

30 20-FEB-81

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO DATE\_JOIN

---------- ---------

7566 JONES MANAGER 2975

20 22-FEB-81

7654 MARTIN SALESMAN 1250 1400

30 02-APR-81

7698 BLAKE MANAGER 2850

30 28-SEP-81

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO DATE\_JOIN

---------- ---------

7782 CLARK MANAGER 2450

10 01-MAY-81

7788 SCOTT ANALYST 3000

20 09-JUN-81

7839 KING PRESIDENT 5000

10 19-APR-87

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO DATE\_JOIN

---------- ---------

7844 TURNER SALESMAN 1500

30 17-NOV-81

7876 ADAMS CLERK 1100

20 08-SEP-81

7900 JAMES CLERK 950

30 23-MAY-87

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO DATE\_JOIN

---------- ---------

7902 FORD ANALYST 3000

20 03-DEC-81

7934 MILLER CLERK 1300

10 03-DEC-81

1. rows selected.

**8.Display all the distinct job types in ‘EMP’.**

SQL> SELECT DISTINCT JOB FROM EMPLOYEE;

JOB

------------

CLERK

SALESMAN

PRESIDENT

MANAGER

ANALYST

**9. Display names of all employees in dept 20 and 30**

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

ENAME

-------------------------

SMITH

ALLEN

WARD

JONES

MARTIN

BLAKE

SCOTT

TURNER

ADAMS

JAMES

FORD

11 rows selected.

10. **List name and Total of salary i.e sal+commission**

SQL> SELECT ENAME,SALARY+COMMISSION FROM EMPLOYEE;

ENAME SALARY+COMMISSION

------------------------- -----------------

SMITH 2800

ALLEN 1900

WARD 1750

JONES

MARTIN 2650

BLAKE

CLARK

SCOTT

KING

TURNER

ADAMS

ENAME SALARY+COMMISSION

------------------------- -----------------

JAMES

FORD

MILLER

14 rows selected.

**11. List name and Annual Salary i.e sal\*12**

SQL> SELECT ENAME,SALARY\*12 FROM EMPLOYEE;

ENAME SALARY\*12

------------------------- ----------

SMITH 24000

ALLEN 19200

WARD 15000

JONES 35700

MARTIN 15000

BLAKE 34200

CLARK 29400

SCOTT 36000

KING 60000

TURNER 18000

ADAMS 13200

ENAME SALARY\*12

------------------------- ----------

JAMES 11400

FORD 36000

MILLER 15600

14 rows selected.

**12. List the employee who joined in the date ‘03-DEC-81’**

SQL> SELECT \* FROM EMPLOYEE WHERE DATE\_JOIN='03-DEC-81';

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO DATE\_JOIN

---------- ---------

7902 FORD ANALYST 3000

20 03-DEC-81

7934 MILLER CLERK 1300

10 03-DEC-81

**13. Display the total salary of ‘Miller’**

SQL> SELECT SALARY FROM EMPLOYEE WHERE ENAME='MILLER';

SALARY

----------

1300

**14. Delete the employee ‘Miller’ from’EMP’**

DELETE FROM EMPLOYEE WHERE ENAME='MILLER';

1 row deleted.

**15. .Display name and deptno of all employees.**

SQL> SELECT ENAME,DEPTNO FROM EMPLOYEE;

ENAME DEPTNO

------------------------- ----------

SMITH 20

ALLEN 30

WARD 30

JONES 20

MARTIN 30

BLAKE 30

CLARK 10

SCOTT 20

KING 10

TURNER 30

ADAMS 20

ENAME DEPTNO

------------------------- ----------

JAMES 30

FORD 20

13 rows selected.

**16.** Remove the field ‘commission’ fom’EMP’ after updating salary with total salary, i.e sal+commission

SQL> UPDATE EMPLOYEE SET SALARY=SALARY+COMMISSION;

13 rows updated.

SQL> SELECT \* FROM EMPLOYEE;

     EMPNO ENAME                     JOB              SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

    DEPTNO DATE\_JOIN

---------- ---------

      7369 SMITH                     CLERK              2800        800

        20 17-DEC-80

      7499 ALLEN                     SALESMAN           1900        300

        30

      7521 WARD                      SALESMAN           1750        500

        30 20-FEB-81

     EMPNO ENAME                     JOB              SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

    DEPTNO DATE\_JOIN

---------- ---------

      7566 JONES                     MANAGER            2975          0

        20 22-FEB-81

      7654 MARTIN                    SALESMAN           2650       1400

        30 02-APR-81

      7698 BLAKE                     MANAGER            2850          0

        30 28-SEP-81

     EMPNO ENAME                     JOB              SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

    DEPTNO DATE\_JOIN

---------- ---------

      7782 CLARK                     MANAGER            2450          0

        10 01-MAY-81

      7788 SCOTT                     ANALYST            3000          0

        20 09-JUN-81

      7839 KING                      PRESIDENT          5000          0

        10 19-APR-87

     EMPNO ENAME                     JOB              SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

    DEPTNO DATE\_JOIN

---------- ---------

      7844 TURNER                    SALESMAN           1500          0

        30 17-NOV-81

      7876 ADAMS                     CLERK              1100          0

        20 08-SEP-81

      7902 FORD                      ANALYST            3000          0

        20 03-DEC-81

     EMPNO ENAME                     JOB              SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

    DEPTNO DATE\_JOIN

---------- ---------

      7900 JAMES                     CLERK               950          0

        30 23-MAY-87

13 rows selected.

 ALTER TABLE EMPLOYEE DROP COLUMN COMMISSION;

SQL> SELECT \* FROM EMPLOYEE;

     EMPNO ENAME                     JOB              SALARY     DEPTNO

---------- ------------------------- ------------ ---------- ----------

DATE\_JOIN

---------

      7369 SMITH                     CLERK              2800         20

17-DEC-80

      7499 ALLEN                     SALESMAN           1900         30

      7521 WARD                      SALESMAN           1750         30

20-FEB-81

     EMPNO ENAME                     JOB              SALARY     DEPTNO

---------- ------------------------- ------------ ---------- ----------

DATE\_JOIN

---------

      7566 JONES                     MANAGER            2975         20

22-FEB-81

      7654 MARTIN                    SALESMAN           2650         30

02-APR-81

      7698 BLAKE                     MANAGER            2850         30

28-SEP-81

     EMPNO ENAME                     JOB              SALARY     DEPTNO

---------- ------------------------- ------------ ---------- ----------

DATE\_JOIN

---------

      7782 CLARK                     MANAGER            2450         10

01-MAY-81

      7788 SCOTT                     ANALYST            3000         20

09-JUN-81

      7839 KING                      PRESIDENT          5000         10

19-APR-87

     EMPNO ENAME                     JOB              SALARY     DEPTNO

---------- ------------------------- ------------ ---------- ----------

DATE\_JOIN

---------

      7844 TURNER                    SALESMAN           1500         30

17-NOV-81

      7876 ADAMS                     CLERK              1100         20

08-SEP-81

      7902 FORD                      ANALYST            3000         20

03-DEC-81

     EMPNO ENAME                     JOB              SALARY     DEPTNO

---------- ------------------------- ------------ ---------- ----------

DATE\_JOIN

---------

      7900 JAMES                     CLERK               950         30

23-MAY-87

13 rows selected.

**17. Display the name of employees having the same amount of salary** **( don’t use subqueries**)

SQL> SELECT ENAME,SALARY FROM EMPLOYEE WHERE SALARY IN (SELECT salary FROM EMPLOYEE e WHERE EMPLOYEE.EMPNO < > e.EMPNO);

ENAME                         SALARY

------------------------- ----------

FORD                            3000

SCOTT                           3000

**18.  Display the name and employee no as ‘name’ and ‘emp\_id’**

SQL> SELECT ENAME,EMPNO FROM EMPLOYEE;

ENAME                          EMPNO

------------------------- ----------

SMITH                           7369

ALLEN                           7499

WARD                            7521

JONES                           7566

MARTIN                          7654

BLAKE                           7698

CLARK                           7782

SCOTT                           7788

KING                            7839

TURNER                          7844

ADAMS                           7876

ENAME                          EMPNO

------------------------- ----------

FORD                            7902

JAMES                           7900

13 rows selected.

**19. Rename table ‘EMP’ to ‘EMPLOYEE’**

Rename table ‘EMP’ to ‘EMPLOYEE’

SQL> RENAME EMPLOYEE TO EMP;

Table renamed.

**20. Create a new table ‘EMP\_TAB’ from table ‘EMPLOYEE’**

Create a new table ‘EMP\_TAB’ from table ‘EMPLOYEE’

SQL> CREATE TABLE EMP\_TAB AS (SELECT \* FROM EMP);

Table created.

**21.List the details of ‘EMPLOYEE’ and ‘EMPTAB’**

SELECT \*FROM EMP;

 EMPNO ENAME                     JOB              SALARY     DEPTNO

---------- ------------------------- ------------ ---------- ----------

DATE\_JOIN

---------

 7369 SMITH                     CLERK              2800         20

17-DEC-80

 7499 ALLEN                     SALESMAN           1900         30

  7521 WARD                      SALESMAN           1750         30

20-FEB-81

     EMPNO ENAME                     JOB              SALARY     DEPTNO

---------- ------------------------- ------------ ---------- ----------

DATE\_JOIN

---------

      7566 JONES                     MANAGER            2975         20

22-FEB-81

      7654 MARTIN                    SALESMAN           2650         30

02-APR-81

      7698 BLAKE                     MANAGER            2850         30

28-SEP-81

     EMPNO ENAME                     JOB              SALARY     DEPTNO

---------- ------------------------- ------------ ---------- ----------

DATE\_JOIN

---------

      7782 CLARK                     MANAGER          2450         10

01-MAY-81

      7788 SCOTT                     ANALYST            3000         20

09-JUN-81

      7839 KING                      PRESIDENT          5000         10

19-APR-87

   EMPNO ENAME                     JOB              SALARY     DEPTNO

---------- ------------------------- ------------ ---------- ----------

DATE\_JOIN

---------

      7844 TURNER                    SALESMAN          1500         30

17-NOV-81

      7876 ADAMS                     CLERK              1100         20

08-SEP-81

      7902 FORD                      ANALYST            3000         20

03-DEC-81

     EMPNO ENAME                     JOB              SALARY     DEPTNO

---------- ------------------------- ------------ ---------- ----------

DATE\_JOIN

---------

      7900 JAMES                     CLERK               950         30

23-MAY-87

**22.Delete all records from ‘EMP’**

SQL> DELETE FROM EMP\_TAB;

Delete the table ‘EMP’

**23. Delete the table ‘EMP’**

SQL>DROP TABLE EMP\_TAB;

Table dropped.