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)

SQL> CREATE TABLE EMPL(emp\_no NUMBER(2),ename VARCHAR2(25),job VARCHAR2(12),salary NUMBER(10,2),commission NUMBER(7,2),deptno NUMBER(2));

Table created.

1. **Display the structure of ‘EMP’**

SQL> describe EMPL

Name Null? Type

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

EMP\_NO NUMBER(2)

ENAME VARCHAR2(25)

JOB VARCHAR2(12)

SALARY NUMBER(10,2)

COMMISSION NUMBER(7,2)

DEPTNO NUMBER(2)

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

EMPNO      ENAME      JOB                    SAL       COMM         DEPTNO

7369         SMITH           CLERK           2000             800                    20

SQL> alter table EMPL modify(emp\_no NUMBER(4));

Table altered.

SQL> insert into EMPL values('7369','SMITH','clerck','2000','800','20');

1 row created.

SQL> select \* from EMPL;

EMP\_NO ENAME JOB SALARY COMMISSION

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

DEPTNO

----------

7369 SMITH clerck 2000 800

20

SQL>

**4. Insert the rest of records using substitution variable**.

EMP\_NO ENAME JOB SALARY COMMISSION DEPTNO

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

7369 SMITH clerck 2000 800 20

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 precident 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

SQL> insert into EMPL values('7499','ALLEN','salesman','1600','300','30');

1 row created.

SQL> insert into EMPL values('7521','WARD','salesman','1250','500','30');

1 row created.

SQL> insert into EMPL(emp\_no,ename,job,salary,commission)values('7566','JONES','manager','2975','20');

1 row created.

SQL> insert into EMPL values('7654','MARTIN','salesman','1250','1400','30');

1 row created.

SQL> insert into EMPL(emp\_no,ename,job,salary,debtno)values('7698','BLAKE','manager','2850','30');

insert into EMPL(emp\_no,ename,job,salary,debtno)values('7698','BLAKE','manager','2850','30')

\*

ERROR at line 1:

ORA-00904: "DEBTNO": invalid identifier

SQL> insert into EMPL(emp\_no,ename,job,salary,deptno)values('7698','BLAKE','manager','2850','30');

1 row created.

SQL> insert into EMPL(emp\_no,ename,job,salary,deptno)values('7782','CLARK','manager','2450','10');

1 row created.

SQL> insert into EMPL(emp\_no,ename,job,salary,deptno)values('7788','SCOTT','analyst','3000','20');

1 row created.

SQL> insert into EMPL(emp\_no,ename,job,salary,deptno)values('7839','KING','precident','5000','10');

1 row created.

SQL> insert into EMPL(emp\_no,ename,job,salary,deptno)values('7844','TURNER','salesman','1500','30');

1 row created.

SQL> insert into EMPL(emp\_no,ename,job,salary,deptno)values('7876','ADAMS','clerk','1100','20');

1 row created.

SQL> insert into EMPL(emp\_no,ename,job,salary,deptno)values('7900','JAMES','null','950','30');

1 row created.

SQL> insert into EMPL(emp\_no,ename,job,salary,deptno)values('7902','FORD','analyst','3000','20');

1 row created.

SQL> insert into EMPL(emp\_no,ename,job,salary,deptno)values('7934','MILLER','clerk','1300','10');

1 row created.

SQL> select \* from EMPL;

EMP\_NO ENAME JOB SALARY COMMISSION DEPTNO

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

7369 SMITH clerck 2000 800 20

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 precident 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

14 rows selected.

1. Insert job  as ‘CLERK’ for all ‘NULL’ job types

SQL> update EMPL set job='clerk' where job='null';

1 row updated.

SQL> select \* from EMPL;

EMP\_NO ENAME JOB SALARY COMMISSION DEPTNO

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

7369 SMITH clerck 2000 800 20

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 precident 5000 10

7844 TURNER salesman 1500 30

7876 ADAMS clerk 1100 20

7900 JAMES clerk 950 30

7902 FORD analyst 3000 20

7934 MILLER clerk 1300 10

1. **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 EMPL ADD date\_join date;

Table altered.

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

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

\*

ERROR at line 1:

ORA-00942: table or view does not exist

SQL> UPDATE EMPL SET DATE\_JOIN='17-DEC-80' WHERE emp\_no=7369;

1 row updated.

SQL> UPDATE EMPL SET DATE\_JOIN='20-FEB-81' WHERE emp\_no=7521;

1 row updated.

SQL> UPDATE EMPL SET DATE\_JOIN='22-FEB-81' WHERE emp\_no=7566;

1 row updated.

SQL> UPDATE EMPL SET DATE\_JOIN='02-APR-81' WHERE emp\_no=7654;

1 row updated.

SQL> UPDATE EMPL SET DATE\_JOIN='28-SEP-81' WHERE emp\_no=7698;

1 row updated.

SQL> UPDATE EMPL SET DATE\_JOIN='01-MAY-81' WHERE emp\_no=7782;

1 row updated.

SQL> UPDATE EMPL SET DATE\_JOIN='09-JUN-81' WHERE emp\_no=7788;

1 row updated.

SQL> UPDATE EMPL SET DATE\_JOIN='19-APR-87' WHERE emp\_no=7839;

1 row updated.

SQL> UPDATE EMPL SET DATE\_JOIN='17-NOV-81' WHERE emp\_no=7844

2

SQL> UPDATE EMPL SET DATE\_JOIN='17-NOV-81' WHERE emp\_no=7844;

1 row updated.

SQL> UPDATE EMPL SET DATE\_JOIN='08-SEP-81' WHERE emp\_no=7876;

1 row updated.

SQL>

SQL> UPDATE EMPL SET DATE\_JOIN='23-MAY-87' WHERE emp\_no=7900;

1 row updated.

SQL> UPDATE EMPL SET DATE\_JOIN='03-DEC-81' WHERE emp\_no=7902;

1 row updated.

SQL> UPDATE EMPL SET DATE\_JOIN='03-DEC-81' WHERE emp\_no=7934;

1. row updated.

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

SQL> select \* from EMPL;

EMP\_NO ENAME JOB SALARY COMMISSION

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

DEPTNO DATE\_JOIN

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

7369 SMITH clerck 2000 800

20 17-DEC-80

7499 ALLEN salesman 1600 300

30

7521 WARD salesman 1250 500

30 20-FEB-81

EMP\_NO 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

EMP\_NO 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 precident 5000

10 19-APR-87

EMP\_NO 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

EMP\_NO ENAME JOB SALARY COMMISSION

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

DEPTNO DATE\_JOIN

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

7902 FORD analyst 3000

20 03-DEC-81

7934 MILLER clerk 1300

10 03-DEC-81

14 rows selected.

SQL>

EMP\_NO ENAME JOB SALARY COMMISSION DEPTNO DATE\_JOIN

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

7369 SMITH clerck 2000 800 20 17-DEC-80

7499 ALLEN salesman 1600 300 30 20-FEB81

7521 WARD salesman 1250 500 30 22-FEB-81

7566 JONES manager 2975 20 02-APR-81

7654 MARTIN salesman 1250 1400 30 28-SEP-81

7698 BLAKE manager 2850 30 01-MAY-81

7782 CLARK manager 2450 10 09-JUN-81

7788 SCOTT analyst 3000 20 19-APR-87

7839 KING precident 5000 10 17-NOV-81

7844 TURNER salesman 1500 30 08-SEP-81

7876 ADAMS clerk 1100 20 23-MAY-87

7900 JAMES clerk 950 30 03-DEC-81

7902 FORD analyst 3000 20 03-DEC-81

1. MILLER clerk 1300 10 23-JAN-82

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

SQL> SELECT DISTINCT JOB FROM EMPL;

JOB

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

salesman

clerck

clerk

precident

manager

analyst

6 rows selected.

SQL>

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

SQL> SELECT ename FROM EMPL WHERE deptno IN(20,30);

ENAME

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

SMITH

ALLEN

WARD

MARTIN

BLAKE

SCOTT

TURNER

ADAMS

JAMES

FORD

10 rows selected.

SQL>

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

SQL> select ename,salary+commission from EMPL;

ENAME SALARY+COMMISSION

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

SMITH 2800

ALLEN 1900

WARD 1750

JONES 2995

MARTIN 2650

BLAKE

CLARK

SCOTT

KING

TURNER

ADAMS

ENAME SALARY+COMMISSION

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

JAMES

FORD

MILLER

14 rows selected.

SQL>

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

SQL> SELECT ename,salary\*12 from EMPL;

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 EMPL where date\_join='03-dec-81';

EMP\_NO ENAME JOB SALARY COMMISSION

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

DEPTNO DATE\_JOIN

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

7902 FORD analyst 3000

20 03-DEC-81

7934 MILLER clerk 1300

10 03-DEC-81

SQL>

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

SQL> SELECT salary FROM EMPL WHERE ename='MILLER';

SALARY

----------

1300

SQL>

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

SQL> delete from EMPL where ename='MILLER';

1 row deleted.

SQL>

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

ENAME DEPTNO

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

SMITH 20

JONES

FORD 20

CLARK 10

SCOTT 20

TURNER 30

JAMES 30

KING 10

ADAMS 20

BLAKE 30

ALLEN 30

ENAME DEPTNO

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

WARD 30

MARTIN 30

13 rows selected.

SQL>

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

SQL> UPDATE EMPL SET salary=salary+commission;

13 rows updated.

SQL>

SQL> UPDATE EMPLOYEE SET SALARY=SALARY+COMMISSION;

UPDATE EMPLOYEE SET SALARY=SALARY+COMMISSION

\*

ERROR at line 1:

ORA-00942: table or view does not exist

SQL> UPDATE EMPL SET salary=salary+commission;

13 rows updated.

SQL> select \* from EMPL;

EMP\_NO ENAME JOB SALARY COMMISSION

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

DEPTNO DATE\_JOIN

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

7369 SMITH clerck 2800 800

20 17-DEC-80

7499 ALLEN salesman 1900 300

30

7521 WARD salesman 1750 500

30 20-FEB-81

EMP\_NO ENAME JOB SALARY COMMISSION

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

DEPTNO DATE\_JOIN

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

7566 JONES manager 2995 20

22-FEB-81

7654 MARTIN salesman 2650 1400

30 02-APR-81

7698 BLAKE manager

30 28-SEP-81

EMP\_NO ENAME JOB SALARY COMMISSION

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

DEPTNO DATE\_JOIN

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

7782 CLARK manager

10 01-MAY-81

7788 SCOTT analyst

20 09-JUN-81

7839 KING precident

10 19-APR-87

EMP\_NO ENAME JOB SALARY COMMISSION

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

DEPTNO DATE\_JOIN

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

7844 TURNER salesman

30 17-NOV-81

7876 ADAMS clerk

20 08-SEP-81

7900 JAMES clerk

30 23-MAY-87

EMP\_NO ENAME JOB SALARY COMMISSION

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

DEPTNO DATE\_JOIN

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

7902 FORD analyst

20 03-DEC-81

13 rows selected.

SQL> ALTER TABLE EMPL DROP COLUMN commission;

Table altered.

SQL> selce \* from EMPL;

SP2-0734: unknown command beginning "selce \* fr..." - rest of line ignored.

SQL> select \* from EMPL;

EMP\_NO ENAME JOB SALARY DEPTNO

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

DATE\_JOIN

---------

7369 SMITH clerck 2800 20

17-DEC-80

7499 ALLEN salesman 1900 30

7521 WARD salesman 1750 30

20-FEB-81

EMP\_NO ENAME JOB SALARY DEPTNO

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

DATE\_JOIN

---------

7566 JONES manager 2995

22-FEB-81

7654 MARTIN salesman 2650 30

02-APR-81

7698 BLAKE manager 30

28-SEP-81

EMP\_NO ENAME JOB SALARY DEPTNO

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

DATE\_JOIN

---------

7782 CLARK manager 10

01-MAY-81

7788 SCOTT analyst 20

09-JUN-81

7839 KING precident 10

19-APR-87

EMP\_NO ENAME JOB SALARY DEPTNO

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

DATE\_JOIN

---------

7844 TURNER salesman 30

17-NOV-81

7876 ADAMS clerk 20

08-SEP-81

7900 JAMES clerk 30

23-MAY-87

EMP\_NO ENAME JOB SALARY DEPTNO

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

DATE\_JOIN

---------

7902 FORD analyst 20

03-DEC-81

13 rows selected.

SQL>

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

SQL>

SQL> SELECT ename,emp\_no FROM EMPL;

ENAME EMP\_NO

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

SMITH 7369

ALLEN 7499

WARD 7521

JONES 7566

MARTIN 7654

BLAKE 7698

CLARK 7782

SCOTT 7788

KING 7839

TURNER 7844

ADAMS 7876

ENAME EMP\_NO

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

JAMES 7900

FORD 7902

1. ows selected.

SQL>

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

SQL> RENAME EMPL TO EMPLOYEE;

Table renamed.

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

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

Table created.

SQL>

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

SQL> SELECT \* FROM EMPLOYEE;

EMP\_NO ENAME JOB SALARY DEPTNO

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

DATE\_JOIN

---------

7369 SMITH clerck 2800 20

17-DEC-80

7499 ALLEN salesman 1900 30

7521 WARD salesman 1750 30

20-FEB-81

EMP\_NO ENAME JOB SALARY DEPTNO

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

DATE\_JOIN

---------

7566 JONES manager 2995

22-FEB-81

7654 MARTIN salesman 2650 30

02-APR-81

7698 BLAKE manager 30

28-SEP-81

EMP\_NO ENAME JOB SALARY DEPTNO

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

DATE\_JOIN

---------

7782 CLARK manager 10

01-MAY-81

7788 SCOTT analyst 20

09-JUN-81

7839 KING precident 10

19-APR-87

EMP\_NO ENAME JOB SALARY DEPTNO

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

DATE\_JOIN

---------

7844 TURNER salesman 30

17-NOV-81

7876 ADAMS clerk 20

08-SEP-81

7900 JAMES clerk 30

23-MAY-87

EMP\_NO ENAME JOB SALARY DEPTNO

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

DATE\_JOIN

---------

7902 FORD analyst 20

03-DEC-81

13 rows selected.

SQL>

**22.Delete all records from ‘EMP’**

SQL> DELETE FROM EMP\_TAB;

13 rows deleted.

**23 Delete the table ‘EMP’**

SQL> DROP TABLE EMP\_TAB;

Table dropped.

SQL>