**Create an employee table ‘emp’ with followind fields.**

|  |  |
| --- | --- |
| **NAME** | **TYPE** |
| EMPNO | NUMBER(4) |
| ENAME | VARCHAR2(25) |
| JOB | VARCHAR2(12) |
| SALARY | NUMBER(10,2) |
| COMMISSION | NUMBER(7,2) |
| DEPTNO | NUMBER(2) |

SQL> CREATE TABLE EMP1(EMPNO NUMBER(4) PRIMARY KEY,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> DESC EMP1;

Name Null? Type

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

EMPNO NOT NULL NUMBER(4)

ENAME VARCHAR2(25)

JOB VARCHAR2(12)

SALARY NUMBER(10,2)

COMMISSION NUMBER(7,2)

DEPTNO NUMBER(2)

**B.Insert the following record to EMP.**

SQL> INSERT INTO EEMP1VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO);

Enter value for empno: 1

Enter value for ename: ANNA

Enter value for job:

Enter value for salary: 10000

Enter value for commission: 34

Enter value for deptno: 22

old 1: INSERT INTO EMP1 VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO)

new 1: INSERT INTO EMP1 VALUES(1,'ANNA','',10000,34,22)

1 row created.

SQL> /

Enter value for empno: 2

Enter value for ename: SARA

Enter value for job: HR

Enter value for salary: 50000

Enter value for commission: 32

Enter value for deptno: 10

old 1: INSERT INTO EMP1 VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO)

new 1: INSERT INTO EMP1 VALUES(2,'SARA','HR',50000,32,10)

1 row created.

SQL> /

Enter value for empno: 3

Enter value for ename: ANN

Enter value for job: MANAGER

Enter value for salary: 20000

Enter value for commission: 33

Enter value for deptno: 20

old 1: INSERT INTO EMP1 VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO)

new 1: INSERT INTO EMP1 VALUES(3,'ANN','MANAGER',20000,33,20)

1 row created.

SQL> /

Enter value for empno: 4

Enter value for ename: RICHA

Enter value for job: ANALYST

Enter value for salary: 20000

Enter value for commission: 33

Enter value for deptno: 30

old 1: INSERT INTO EMP1 VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO)

new 1: INSERT INTO EMP1 VALUES(4,'RICHA','ANALYST',20000,33,30)

1 row created.

**C.Display all the records.**

SQL> SELECT \* FROM EMP1;

EMPNO ENAME JOB SALARY COMMISSION DEPTNO

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

1 ANNA NULL 10000 34 22

2 SARA HR 50000 32 10

3 ANN MANAGER 20000 33 20

4 RICHA ANALYST 20000 33 30

**D. Insert job as ‘clerk’ for all ‘NULL’ job types.**

SQL> UPDATE EMP1 SET JOB='CLERK' WHERE JOB='NULL';

1 row updated.

SQL> SELECT \* FROM EMP1;

EMPNO ENAME JOB SALARY COMMISSION DEPTNO

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

1 ANNA CLERK 10000 34 22

2 SARA HR 50000 32 10

3 ANN MANAGER 20000 33 20

4 RICHA ANALYST 20000 33 30

**E. Change the job type ‘analyst’ to ‘data analyst’.**

SQL> UPDATE EMP1 SET JOB='DATA ANALYST' WHERE JOB='ANALYST';

1 row updated.

SQL> SELECT \* FROM EMP1;

EMPNO ENAME JOB SALARY COMMISSION DEPTNO

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

1 ANNA NULL 10000 34 22

2 SARA HR 50000 32 10

3 ANN MANAGER 20000 33 20

4 RICHA DATA ANALYST 20000 33 30

**F. Add a new field ‘date join’ to the table and insert the date 17-DEC-80 to all the record.**

SQL> ALTER TABLE EMP1 ADD DATE\_JOIN DATE;

Table altered.

SQL> UPDATE EMP1 SET DATE\_JOIN='17-DEC-24';

4 rows updated.

SQL> SELECT \* FROM EMP1;

EMPNO ENAME JOB SALARY COMMISSION DEPTNO DATE\_JOIN

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

1 ANNA NULL 10000 34 22 17-DEC-24

2 SARA HR 50000 32 10 17-DEC-24

3 ANN MANAGER 20000 33 20 17-DEC-24

4 RICHA ANALYST 20000 33 30 17-DEC-24

**G. Display all distinct job type**.

SQL> SELECT DISTINCT JOB FROM EMP1;

JOB

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

CLERK

HR

DATA ANALYST

MANAGER

**H. Display empno,ename,job from table emp.**

SQL> SELECT EMPNO,ENAME,JOB FROM EMP1;

EMPNO ENAME JOB

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

1 ANNA CLERK

2 SARA HR

3 ANN MANAGER

4 RICHA DATA ANALYST

**I. Display name of all employees in deptno 20 and 30.**

SQL> SELECT ENAME FROM EMP1 WHERE DEPTNO=20 OR DEPTNO=30;

ENAME

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

ANN

RICHA

**J. Find the total salary of all employees.**

SQL> SELECT SUM(SALARY) FROM EMP1;

SUM(SALARY)

-----------

100000

**K. List name and total of salary+commission.**

SQL> UPDATE EMP1 SET SALARY=(SALARY+COMMISSION);

4 rows updated.

SQL> ALTER TABLE EMP1 DROP(COMMISSION);

Table altered.

SQL> SELECT \* FROM EMP1;

EMPNO ENAME JOB SALARY DEPTNO DATE\_JOIN

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

1 ANNA CLERK 10034 22 17-DEC-24

2 SARA HR 50032 1 10 17-DEC-24

3 ANN MANAGER 20033 20 17-DEC-24

4 RICHA DATA ANALYST 20033 30 17-DEC-24

**L. Find total salary group by job .**

SQL> SELECT JOB,SUM(SALARY) FROM EMP1 GROUP BY JOB;

JOB SUM(SALARY)

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

CLERK 10000

HR 50000

DATA ANALYST 20000

MANAGER 20000

**M. Delete column commission and update salary as a salary+commission**

SQL> SELECT ENAME,SALARY FROM EMP1 WHERE SALARY IN(SELECT SALARY FROM EMP1 GROUP BY SALARY HAVING COUNT(1)>1);

ENAME SALARY

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

ANN 20033

RICHA 20033

**N. Displayempno,ename,job from table emp.**

SQL> ALTER TABLE EMP1 RENAME COLUMN ENAME TO EMPNAME;

Table altered.

SQL> ALTER TABLE EMP1 RENAME COLUMN EMPNO TO EMPID;

Table altered.

SQL> SELECT \* FROM EMP1;

EMPID EMPNAME JOB SALARY DEPTNO DATE\_JOIN

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

1 ANNA CLERK 10034 22 17-DEC-24

2 SARA HR 50032 10 17-DEC-24

3 ANN MANAGER 20033 20 17-DEC-24

4 RICHA DATA ANALYST 20033 30 17-DEC-24

**F. Displayempno,ename,job from table emp.**

SQL> ALTER TABLE EMP1 RENAME TO EMPLOYEE1;

Table altered.

SQL> SELECT \* FROM EMPLOYEE1;

EMPID EMPNAME JOB SALARY DEPTNO DATE\_JOIN

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

1 ANNA CLERK 10034 22 17-DEC-24

2 SARA HR 50032 10 17-DEC-24

3 ANN MANAGER 20033 20 17-DEC-24

4 RICHA DATA ANALYST 20033 30 17-DEC-24