**2.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.

**A.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 EEMP1 VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO);

Enter value for empno: 1

Enter value for ename: PONNU

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,'PONNU','',10000,34,22)

1 row created.

SQL> /

Enter value for empno: 2

Enter value for ename: SACHIN

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,'SACHIN','HR',50000,32,10)

1 row created.

SQL> /

Enter value for empno: 3

Enter value for ename: KUKKU

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,'KUKKU','MANAGER',20000,33,20)

1 row created.

SQL> /

Enter value for empno: 4

Enter value for ename: ANANDHU

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,'ANANDHU','ANALYST',20000,33,30)

1 row created.

**C.Display all the records.**

SQL> SELECT \* FROM EMP1;

EMPNO ENAME JOB SALARY C0MMISSION DEPTNO

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

1 PONNU NULL 10000 34 22

2 SACHIN HR 50000 32 10

3 KUKKU MANAGER 20000 33 20

4 ANANDHU 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 C0MMISSION DEPTNO

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

1 PONNU CLERK 10000 34 22

2 SACHIN HR 50000 32 10

3 KUKKU MANAGER 20000 33 20

4 ANANDHU 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 C0MMISSION DEPTNO

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

1 PONNU CLERK 10000 34 22

2 SACHIN HR 50000 32 10

3 KUKKU MANAGER 20000 33 20

4 ANANDHU 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-80';

4 rows updated.

SQL> SELECT \* FROM EMP1;

EMPNO ENAME JOB SALARY C0MMISSION DEPTNO DATE\_JOIN

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

1 PONNU NULL 10000 34 22 17-DEC-80

2 SACHIN HR 50000 32 10 17-DEC-80

3 KUKKU MANAGER 20000 33 20 17-DEC-80

4 ANANDHU ANALYST 20000 33 30 17-DEC-80

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

SQL> SELECT EMPNO,ENAME,JOB FROM EMP1;

EMPNO ENAME JOB

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

1 PONNU CLERK

2 SACHIN HR

3 KUKKU MANAGER

4 ANANDHU DATA ANALYST

**H.Display all distinct job type**.

SQL> SELECT DISTINCT JOB FROM EMP1;

JOB

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

CLERK

HR

DATA ANALYST

MANAGER

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

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

ENAME

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

KUKKU

ANANDHU

**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> SELECT ENAME,SUM(SALARY+ COMMISSION) FROM EMP1 GROUP BY ENAME;

ENAME SALARY+ COMMISSION

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PONNU 10034

SACHIN 50032

KUKKU 20033

ANANDHU 20033

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

4 rows updated.

SQL> ALTER TABLE EMP1 DROP(COMMISSION);

Table altered.

EMPNO EMPNAME JOB SALARY DEPTNO DATE\_JOIN

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

1 PONNU CLERK 10034 22 17-DEC-80

2 SACHIN HR 50032 10 17-DEC-80

3 KUKKU MANAGER 20033 20 17-DEC-80

4 ANANDHU DATA ANALYST 20033 30 17-DEC-80

**N.Display the emp with same salary.**

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

ENAME SALARY

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

KUKKU 20033

ANANDHU 20033

**O.Change the column name ename to empname and empno to empid.**

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 PONNU CLERK 10034 22 17-DEC-80

2 SACHIN HR 50032 10 17-DEC-80

3 KUKKU MANAGER 20033 20 17-DEC-80

4 ANANDHU DATA ANALYST 20033 30 17-DEC-80

**P.Rename the table EMP to EMPLOYEE.**

SQL> ALTER TABLE EMP1 RENAME TO EMPLOYEE1;

Table altered.

SQL> SELECT \* FROM EMPLOYEE1;

EMPID EMPNAME JOB SALARY DEPTNO DATE\_JOIN

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

1 PONNU CLERK 10034 22 17-DEC-80

2 SACHIN HR 50032 10 17-DEC-80

3 KUKKU MANAGER 20033 20 17-DEC-80

4 ANANDHU DATA ANALYST 20033 30 17-DEC-80