| **Ex.No. 1** | **CREATING DATABASE TABLE** | **Date :** |
| --- | --- | --- |

# CREATE TABLE

**CREATE TABLE *tablename* (column\_name data\_ type constraints, …)**

* Used to create a table by defining its structure, the data type and name of the various columns, the relationships with columns of other tables etc.

**Q1)** Create the tables DEPT and EMP as described below

# DEPT

| *Column name* | *Data type* | *Description* |
| --- | --- | --- |
| DEPTNO | Number | Department number |
| DNAME | Varchar | Department name |
| LOC | Varchar | Department Location |

**EMP**

| *Column name* | *Data type* | *Description* |
| --- | --- | --- |
| EMPNO | Number | Employee number |
| ENAME | Varchar | Employee name |
| JOB | Char | Designation |
| MGR | Number | Manager’s EMP.No. |
| HIREDATE | Date | Date of joining |
| SAL | Number | Basic Salary |
| COMM | Number | Commission |
| DEPTNO | Number | Department Number |

# SQL>

**SQL>**

**Q2)** Confirm table creation

**desc *table-name;***

# SQL>

**Q3)** List name of the tables created by the user

# SQL>select \* from tab;

**Q4)** Describe tables owned by the user

# SQL> SELECT \* FROM user\_tables;

**ALTER TABLE**

* *Add Column*

**ALTER TABLE *table* ADD(*column data type* [DEFAULT *expr*] [, *column data type*]...);**

* *Drop Column*

# ALTER TABLE *table* DROP column column\_name;

* *Modify Column*

**ALTER TABLE *table* MODIFY(*column data type* [DEFAULT *expr*] [, *column data type*]...);**

* *rename Column*

**ALTER TABLE *table* rename column old\_column\_name to new\_column\_name;**

* *rename table*

**ALTER TABLE *table* rename to** *new\_table\_name*;

**DROP and TRUNCATE**

**drop table table\_name;**

**truncate table table\_name;**

**Q7)** Add new columns COMNT and MISCEL in DEPT table of character type.

# SQL >

**Q8)** Modify the size of column LOC by 15 in the DEPT table

# SQL >

**Q9)** Set MISCEL column in the DEPT table as unused

# SQL >

**Q10)** Drop the column COMNT from the table DEPT

# SQL >

**Q11)** Drop unused columns in DEPT table

# SQL >

**Q12)** Rename the table DEPT to DEPT12

# SQL >

**Q13)** Remove all the rows in the table DEPT12 (Presently no records in DEPT12)

# SQL >

**1.** **CREATE TABLE**

CREATE TABLE tablename (column\_name data\_ type constraints, …)

Used to create a table by defining its structure, the data type and name of the various columns, the relationships with columns of other tables etc

**create table Employee(name varchar(20), empid int, dept varchar(20), phone\_num int);**

**Table created.**

**2.** **ALTER**

Add Column ALTER TABLE table ADD(column data type [DEFAULT expr] [, column data type]...); Drop Column ALTER TABLE table DROP column column\_name;

Modify Column ALTER TABLE table MODIFY(column data type [DEFAULT expr] [, column data type]...)

**SQL> alter table Employee add(DOJ date,position varchar(20));**

**Table altered.**

**SQL> alter table Employee modify(name varchar(25));**

**Table altered.**

**SQL> desc Employee;**

**Name Null? Type**

**----------------------------------------- -------- ----------------------------**

**NAME VARCHAR2(25)**

**EMPID NUMBER(38)**

**DEPT VARCHAR2(20)**

**PHONE\_NUM NUMBER(38)**

**DOJ DATE**

**POSITION VARCHAR2(20)**

**SQL> alter table Employee rename column position to Designation;**

**Table altered.**

**SQL> desc Employee;**

**Name Null? Type**

**----------------------------------------- -------- ----------------------------**

**NAME VARCHAR2(25)**

**EMPID NUMBER(38)**

**DEPT VARCHAR2(20)**

**PHONE\_NUM NUMBER(38)**

**DOJ DATE**

**DESIGNATION VARCHAR2(20)**

**SQL> alter table Employee rename to Emp\_table;**

**Table altered.**

***Verified by***