

DBMS LAB-1

NAME:ADITI ROUT

ID:B120003

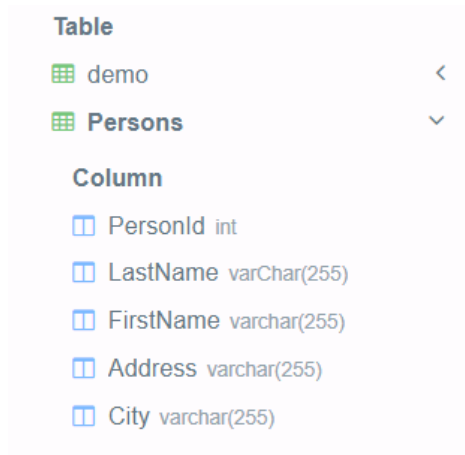
1. Use of CREATE command.

- a. Syntax: CREATE TABLE Persons (PersonID int, LastName varchar(255),
FirstName varchar(255), Address varchar(255), City varchar(255));

CODE:

```
CREATE TABLE Persons(  
  
    PersonId int,  
  
    LastName varChar(255),  
  
    FirstName varchar(255),  
  
    Address varchar(255),  
  
    City varchar(255)  
  
);
```

OUTPUT:



The screenshot shows a database interface with a table named 'Persons'. The table structure is displayed as follows:

| Table | |
|------------------------|---|
| demo | < |
| Persons | ✓ |
| Column | |
| PersonId int | |
| LastName varChar(255) | |
| FirstName varchar(255) | |
| Address varchar(255) | |
| City varchar(255) | |






- b. Create a table whose details are given below.

- Name of Table: COLLEGE
- Attributes are: CNAME(char), LOCATION(char)

CODE:

```
create table COLLEGE(  
  
    CNAME CHAR(255),  
  
    LOCATION CHAR(255) );
```

OUTPUT:

| Table | |
|--|---|
|  COLLEGE | ▼ |
| Column | |
|  CNAME CHAR(255) | |
|  LOCATION CHAR(255) | |
|  demo | < |
|  Persons | < |

c. Create a table whose details are given below.

i. Name of Table: FACULTIES

ii. Attributes are: FNAME(char), DEPT(char),DESGN(char)

CODE:








```
CREATE TABLE FACULTIES (
```

```
FNAME char(255),
```

```
DEPT CHAR(255),
```

```
DESGN CHAR(255));
```

OUTPUT:

| Table | |
|---|---|
|  COLLEGE | < |
|  demo | < |
|  FACULTIES | ▼ |
| Column | |
|  FNAME char(255) | |
|  DEPT CHAR(255) | |
|  DESGN CHAR(255) | |
|  Persons | < |

d. Create a table whose details are given below.

i. Name of Table: CUSTOMER

ii. Attributes are: CNAME(char), CID(int), ITEMNAME(char),PRICE(int)

CODE:

```
CREATE TABLE CUSTOMER (
```

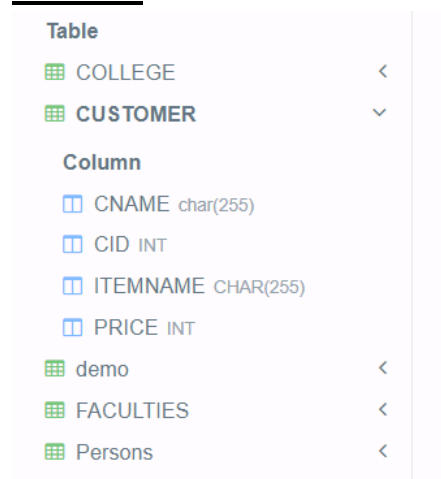
```
CNAME char(255),
```

```
CID INT,
```

```
ITEMNAME CHAR(255),
```

```
PRICE INT);
```

OUTPUT:



The screenshot shows a database interface with a list of tables on the left. The 'CUSTOMER' table is selected and expanded, showing its columns: CNAME char(255), CID INT, ITEMNAME CHAR(255), and PRICE INT. Other tables listed include COLLEGE, demo, FACULTIES, and Persons.

| Table | |
|--------------------|---|
| COLLEGE | < |
| CUSTOMER | ▼ |
| Column | |
| CNAME char(255) | |
| CID INT | |
| ITEMNAME CHAR(255) | |
| PRICE INT | |
| demo | < |
| FACULTIES | < |
| Persons | < |

e. Create a table whose details are given below.

i. Name of Table: STUDENTS

ii. Attributes are: SNAME (char),ROLL(char),BRANCH(char),SUBJ1(int),SUBJ2(int).

CODE:

```
CREATE TABLE STUDENTS (
```

```
SNAME char(255),
```

```
ROLL CHAR(255),
```

```
BRANCH char(255),
```

```
SUBJ1 INT,
```

```
SUBJ2 INT
```

```
);
```

OUTPUT:

| Table | |
|------------------|---|
| COLLEGE | < |
| CUSTOMER | < |
| Custs | < |
| demo | < |
| FACULTIES | < |
| Persons | < |
| STUDENTS | ▼ |
| Column | |
| SNAME char(255) | |
| ROLL CHAR(255) | |
| BRANCH char(255) | |
| SUBJ1 INT | |
| SUBJ2 INT | |

2. Use of INSERT command.

a. Syntax: INSERT INTO Custs (CustomerName, ContactName, Address, City, PostalCode, Country) VALUES ('Cardinal', 'Tom B. Erichsen', 'Skagen 21', 'Stavanger', '4006', 'Norway');

CODE:

```
CREATE TABLE Custs(
```

```
    CustomerName char(255),
```

```
    ContactName Char(255),
```

```
    Address CHAR(255),
```

```
    City CHAR(255),
```

```
    PostalCode INT,
```

```
    Country CHAR(255));
```

```
INSERT INTO Custs (CustomerName, ContactName, Address, City, PostalCode, Country) VALUES ('Cardinal', 'Tom B. Erichsen', 'Skagen 21', 'Stavanger', '4006', 'Norway');
```

```
SELECT*FROM Custs;
```

OUTPUT:

| CustomerName | ContactName | Address | City | PostalCode | Country |
|--------------|-----------------|-----------|-----------|------------|---------|
| Cardinal | Tom B. Erichsen | Skagen 21 | Stavanger | 4006 | Norway |

b. INSERT into a table whose details are given below.

i. Name of Table: COLLEGE

ii. Attributes are: CNAME(IIIT), LOCATION(Bhubaneswar)

CODE:

```
INSERT INTO COLLEGE VALUES('IIIT','Bhubaneswar');
```

```
SELECT*FROM COLLEGE;
```

OUTPUT:

| CNAME | LOCATION |
|-------|-------------|
| IIIT | Bhubaneswar |

c. INSERT into a table whose details are given below.

i. Name of Table: FACULTIES

ii. Attributes are: FNAME(A Kalam), DEPT(CSE),DESIGN(Professor)

CODE:

```
INSERT INTO FACULTIES VALUES('A Kalam','CSE','Professor');
```

```
SELECT*FROM FACULTIES;
```

OUTPUT:

| FNAME | DEPT | DESIGN |
|---------|------|-----------|
| A Kalam | CSE | Professor |

d. INSERT into a table whose details are given below.

i. Name of Table: CUSTOMER

ii. Attributes are: CNAME(Dhruv Rathee), CID(700), ITEMNAME(Camera),PRICE(50000)

CODE:

```
INSERT INTO CUSTOMER VALUES('Dhruv Rathee','700','Camera','50000');
```

```
SELECT*FROM CUSTOMER;
```

OUTPUT:

| i | CNAME | CID | ITEMNAME | PRICE |
|---|--------------|-----|----------|-------|
| | Dhruv Rathee | 700 | Camera | 50000 |

e. INSERT into a table whose details are given below.

i. Name of Table: STUDENTS

ii. Attributes are: SNAME (ADITYA), ROLL(b1111), BRANCH(CSE),SUBJ1(75), SUBJ2(85).

CODE:

```
INSERT INTO STUDENTS VALUES('ADITYA','b1111','CSE','75','85');
```

```
SELECT*FROM STUDENTS;
```

OUTPUT:

| i | SNAME | ROLL | BRANCH | SUBJ1 | SUBJ2 |
|---|--------|-------|--------|-------|-------|
| | ADITYA | b1111 | CSE | 75 | 85 |

3. Use of ALTER command

a. ADD Column to a table using following details

i. Name of Table: COLLEGE











ii. Column name: CTYPE (char)

iii. Syntax: ALTER TABLE table_name ADD column_name datatype;

CODE:

```
ALTER TABLE COLLEGE ADD CTYPE CHAR(255);
```

OUTPUT:

| Table | |
|--|---|
|  COLLEGE | ▼ |
| Column | |
|  CNAME CHAR(255) | |
|  LOCATION CHAR(255) | |
|  CTYPE CHAR(255) | |
|  CUSTOMER | < |
|  Custs | < |
|  demo | < |
|  FACULTIES | < |
|  Persons | < |
|  STUDENTS | < |

b. DROP COLUMN of a table using following details

i. Name of Table: FACULTIES

ii. Column name: DESGN

iii. Syntax: ALTER TABLE table_name DROP COLUMN column_name;

CODE:

ALTER TABLE FACULTIES DROP desgn ;

OUTPUT:

| Table | |
|-----------------|---|
| COLLEGE | < |
| CUSTOMER | < |
| Custs | < |
| demo | < |
| FACULTIES | ▼ |
| Column | |
| FNAME char(255) | |
| DEPT CHAR(255) | |
| Persons | < |
| STUDENTS | < |

c. MODIFY COLUMN of a table using following details

i. Name of Table: COLLEGE

ii. Column name: CTYPE (int)

iii. Syntax-1: ALTER TABLE table_name ALTER COLUMN column_name datatype;

iv. Syntax-2: ALTER TABLE table_name MODIFY COLUMN column_name datatype;

v. Syntax-3: ALTER TABLE table_name MODIFY column_name datatype;

CODE:

ALTER TABLE COLLEGE modify ctype int;

OUTPUT:

| Table | |
|--------------------|---|
| COLLEGE | ▼ |
| Column | |
| CNAME char(255) | |
| LOCATION char(255) | |
| ctype int(11) | |