

**ADVANCED DATABASE MANAGEMENT SYSTEM LAB**

**Experiment No.: 1**

**Aim**

To understand and study various DDL Commands.

**Question**

Create the following Tables and insert values

**CREATION OF TABLES**

#### Table 1: DEPOSIT

ACTNO VARCHAR2(5) PRIMARY KEY, FIRST LETTER MUST START WITH ‘D’,

CNAME VARCHAR2(15) FOREIGN KEY REFERENCES CUSTOMER,

BNAME VARCHAR2(20) FOREIGN KEY REFERENCES BRANCH,

AMOUNT NUMBER (8,2) NOT NULL, CANNOT BE 0,

ADATE DATE

#### Table 2: BRANCH

BNAME VARCHAR2(20) PRIMARY KEY,

CITY VARCHAR2(30) NOT NULL any one of NAGPUR, DELHI, BANGALORE, BOMBAY

#### Table 3: CUSTOMER

CNAME VARCHAR2(15) PRIMARY KEY,

CITY VARCHAR2(20) NOT NULL

#### Table 4: BORROW

LOANNO VARCHAR2(8) PRIMARY KEY / FIRST LETTER MUST START WITH ‘L’,

CNAME VARCHAR2(15) FOREIGN KEY REFERENCES CUSTOMER,

BNAME VARCHAR2(20) FOREIGN KEY REFERENCES,

BRANCH AMOUNT NUMBER (8,2) NOT NULL, CANNOT BE 0

**INSERTION OF VALUES**

1. **Inserting values to Branch**

**2.**  **Inserting values into Customer table**

**3.**  **Inserting values into Deposit table**

**4.**  **Inserting values into borrow table**

**Procedure**

CREATE DATABASE bank;

use bank;

CREATE TABLE BRANCH(

BNAME varchar(20) primary key,

city varchar(30) check(city in('NAGPUR','BOMBAY','DELHI','BANGALORE')) not null

);

CREATE TABLE CUSTOMER(

CNAME varchar(15) primary key,

CITY varchar(20) NOT NULL

);

CREATE TABLE DEPOSIT(

ACTNO VARCHAR(5) PRIMARY KEY CHECK(ACTNO LIKE('D%')),

AMOUNT FLOAT(8,2) NOT NULL CHECK(AMOUNT > 0),

CNAME VARCHAR(15),

BNAME VARCHAR(20),

ADATE DATE,

FOREIGN KEY(CNAME) REFERENCES CUSTOMER(CNAME),

FOREIGN KEY(BNAME) REFERENCES BRANCH(BNAME)

);

CREATE TABLE BORROW(

LOANNO VARCHAR(8) PRIMARY KEY CHECK(LOANNO LIKE('L%')),

CNAME VARCHAR(15),

BNAME VARCHAR(20),

AMOUNT FLOAT(8,2) CHECK(AMOUNT > 0) NOT NULL,

FOREIGN KEY(CNAME) REFERENCES CUSTOMER(CNAME),

FOREIGN KEY(BNAME) REFERENCES BRANCH(BNAME)

);

INSERT INTO BRANCH VALUES

('VRCE','NAGPUR'),('AJNI','NAGPUR'),('KAROLBAGH','DELHI'),

('CHANDINI','DELHI'),('DHARAMPETH','NAGPUR'),('MG ROAD','BANGALORE'),

('ANDHERI','BOMBAY'),('NEHRU PALACE','DELHI'),('POWAI','BOMBAY');

INSERT INTO CUSTOMER VALUES

('ANIL','CALCUTTA'),('SUNIL','DELHI'),('MEHUL','BARODA'),

('MANDAR','PATNA'),('MADHURI','NAGPUR'),('PRAMOD','NAGPUR'),

('SANDIP','SURAT'),('SHIVANI','BOMBAY'),('KRANTI','BOMBAY'),('NAREN','BOMBAY');

INSERT INTO DEPOSIT (`ACTNO`,`CNAME`,`BNAME`,`AMOUNT`,`ADATE`)VALUES('D100','ANIL','VRCE','1000.00','1995-03-01');

INSERT INTO DEPOSIT (`ACTNO`,`CNAME`,`BNAME`,`AMOUNT`,`ADATE`)VALUES('D101','SUNIL','AJNI','500.00','1996-01-04');

INSERT INTO DEPOSIT (`ACTNO`,`CNAME`,`BNAME`,`AMOUNT`,`ADATE`)VALUES('D102','MEHUL','KAROLBAGH','3500.00','1995-11-17');

INSERT INTO DEPOSIT (`ACTNO`,`CNAME`,`BNAME`,`AMOUNT`,`ADATE`)VALUES('D104','MADHURI','DHARAMPETH','1200.00','1995-12-17');

INSERT INTO DEPOSIT (`ACTNO`,`CNAME`,`BNAME`,`AMOUNT`,`ADATE`)VALUES('D105','PRAMOD','MG ROAD','3000.00','1996-03-27');

INSERT INTO DEPOSIT (`ACTNO`,`CNAME`,`BNAME`,`AMOUNT`,`ADATE`)VALUES('D106','SANDIP','ANDHERI','2000.00','1996-03-31');

INSERT INTO DEPOSIT (`ACTNO`,`CNAME`,`BNAME`,`AMOUNT`,`ADATE`)VALUES('D107','SHIVANI','ANDHERI','1000.00','1995-09-05');

INSERT INTO DEPOSIT (`ACTNO`,`CNAME`,`BNAME`,`AMOUNT`,`ADATE`)VALUES('D108','KRANTI','NEHRU PALACE','5000.00','1995-07-02');

INSERT INTO DEPOSIT (`ACTNO`,`CNAME`,`BNAME`,`AMOUNT`,`ADATE`)VALUES('D109','NAREN','POWAI','7000.00','1995-08-10');

INSERT INTO BORROW VALUES('L201','ANIL','VRCE','1000.00');

INSERT INTO BORROW VALUES('L206','MEHUL','AJNI','5000.00');

INSERT INTO BORROW VALUES('L311','SUNIL','AJNI','3000.00');

INSERT INTO BORROW VALUES('L321','MADHURI','ANDHERI','2000.00');

INSERT INTO BORROW VALUES('L371','PRAMOD','MG ROAD','8000.00');

INSERT INTO BORROW VALUES('L481','KRANTI','NEHRU PALACE','3000.00');

SELECT \* FROM BRANCH;

SELECT \* FROM CUSTOMER;

SELECT \* FROM DEPOSIT;

SELECT \* FROM BORROW;

**Output Screenshot**







