20MCA134 - ADVANCED DBMS LAB

EXPERIMENT NO. 1

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AIM

To study various DDL commands – CREATE TABLES AND INSERT VALUES

QUESTION

Create the following 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

PROCEDURE

COMMANDS

1.CREATE TABLE CUSTOMER (CNAME VARCHAR (15) PRIMARY KEY , CITY VARCHAR(20) NOT NULL);

2.CREATE TABLE BRANCH (BNAME VARCHAR (20) PRIMARY KEY , CITY VARCHAR(30) CHECK (CITY IN ('NAGPUR','DELHI','BANGALORE','BOMBAY')) NOT NULL);

3.CREATE TABLE BORROW (LOANNO VARCHAR (8) CHECK (LOANNO LIKE 'L%') PRIMARY KEY, CNAMEVARCHAR(15) REFERENCES CUSTOMER(CNAME),BNAME VARCHAR(20) REFERENCESBRANCH(BNAME), AMOUNT FLOAT(8) CHECK (AMOUNT>0) NOT NULL);

4.CREATE TABLE DEPOSIT (ACTNO VARCHAR(5) CHECK (ACTNO LIKE 'D%') PRIMARY KEY ,CNAME VARCHAR(15) REFERENCES CUSTOMER(CNAME),BNAME VARCHAR(20) REFERENCES BRANCH(BNAME),AMOUNT FLOAT(8) CHECK (AMOUNT>0) NOT NULL, ADATE DATE);

INSERT INTO CUSTOMER VALUES('ANIL','CALCUTTA'); INSERT INTO CUSTOMER VALUES('SUNIL','DELHI');INSERT INTO CUSTOMER VALUES('MEHUL','BARODA'); INSERT INTO CUSTOMER VALUES('MANDAR','PATNA'); INSERT INTO CUSTOMER VALUES('MADHURI','NAGPUR'); INSERT INTO CUSTOMER VALUES('PRAMOD', 'NAGPUR'); INSERT INTO CUSTOMER VALUES('SANDIP','SURAT'); INSERT INTO CUSTOMER VALUES('SHIVANI','BOMBAY'); INSERT INTO CUSTOMER VALUES('KRANTI','BOMBAY'); INSERT INTO CUSTOMER VALUES('NAREN','BOMBAY');

INSERT INTO BRANCH VALUES('VRCE','NAGPUR'); INSERT INTO BRANCH VALUES('AJNI','NAGPUR');INSERT INTO BRANCH VALUES('KAROLBAGH','DELHI'); INSERT INTO BRANCH VALUES('CHANDNI','DELHI'); INSERT INTO BRANCH VALUES('DHARAMPETH','NAGPUR'); INSERT INTO BRANCH VALUES('MG ROAD','BANGALORE'); INSERT INTO BRANCH VALUES('ANDHERI','BOMBAY'); INSERT INTO BRANCH VALUES('NEHRU PALACE','DELHI'); INSERT INTO BRANCH VALUES('POWAI','BOMBAY');

INSERT INTO DEPOSIT VALUES('D100','ANIL','VRCE',1000.00,'1-MAR-95'); INSERT INTO DEPOSIT VALUES('D101','SUNIL','ANJNI',500.00,'4-JAN-96');INSERT INTO DEPOSIT VALUES('D102','MEHUL','KAROLBAGH',3500.00,'17-NOV- 95');INSERT

INTO DEPOSIT VALUES('D104','MADHURI','CHANDNI',1200.00,'17-DEC-95'); INSERT INTO DEPOSIT VALUES('D105','PRAMOD','MG ROAD',3000.00,'27-MAR-96'); INSERT INTO DEPOSIT VALUES('D106','SANDIP','ANDHERI',2000.00,'31-MAR-96'); INSERT INTO DEPOSIT VALUES('D107','SHIVANI','VIRAR',1000.00,'5-SEP-95');INSERT INTO DEPOSIT VALUES('D108','KRANTI','NEHRU PLACE',5000.00,'2-JUL-95');INSERT INTO DEPOSIT VALUES('D109','MINU','POWAI',7000.00,'10-AUG-95');

INSERT INTO BORROW VALUES('L201','ANIL','VRCE',1000.00);
INSERT INTO BORROW VALUES('L206','MEHUL','AJNI',5000.00);
INSERT INTO BORROW VALUES('L311','SUNIL','DHARAMPETH',3000.00);
INSERT INTO BORROW VALUES('L321','MADHURI','ANDHERI',2000.00);
INSERT INTO BORROW VALUES('L371','PRAMOD','VIRAR',8000.00);
INSERT INTO BORROW VALUES('L481','KRANTI','NEHRU PLACE',3000.00);

OUTPUT

1.DEPOSIT

```
1 •  SELECT * FROM tables.deposit;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

ACTNO	CNAME	BNAME	AMOUNT	ADATE
D100	ANIL	VRCE	1000	1995-03-01
D101	SUNIL	ANJNI	500	1996-01-04
D102	MEHUL	KAROLBAGH	3500	1995-11-17
D104	MADHURI	CHANDNI	1200	1995-12-17
D105	PRAMOD	MG ROAD	3000	1996-03-27
D106	SANDIP	ANDHERI	2000	1996-03-31
D107	SHIVANI	VIRAR	1000	1995-09-05
D108	KRANTI	NEHRU PLACE	5000	1995-07-02
D109	MINU	POWAI	7000	1995-08-10
NULL	NULL	NULL	NULL	NULL

2.BRANCH

```
1 •  SELECT * FROM tables.branch;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

BNAME	CITY
AJNI	NAGPUR
ANDHERI	BOMBAY
CHANDNI	DELHI
DHARAMPETH	NAGPUR
KAROLBAGH	DELHI
MG ROAD	BANGALORE
NEHRU PALACE	DELHI
POWAI	BOMBAY
VRCE	NAGPUR
NULL	NULL

3.CUSTOMER

```
SELECT * FROM tables.customer;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

CNAME	CITY
ANIL	CALCUTTA
KRANTI	BOMBAY
MADHURI	NAGPUR
MANDAR	PATNA
MEHUL	BARODA
NAREN	BOMBAY
PRAMOD	NAGPUR
SANDIP	SURAT
SHIVANI	BOMBAY
SUNIL	DELHI
NULL	NULL

4.BORROW

```
SELECT * FROM tables.borrow;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

LOANNO	CNAME	BNAME	AMOUNT
L201	ANIL	VRCE	1000
L206	MEHUL	AJNI	5000
L311	SUNIL	DHARAMPETH	3000
L321	MADHURI	ANDHERI	2000
L371	PRAMOD	VIRAR	8000
L481	KRANTI	NEHRU PLACE	3000
NULL	NULL	NULL	NULL