

EXPERIMENT NO:1

CREATING TABLES:

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

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

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

```
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);
```

INSERTING INTO CUSTOMER TABLE:

```
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');
```

INSERTING INTO BRANCH TABLE:

```
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');
```

INSERTING INTO DEPOSIT TABLE:

```
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');
```

INSERTING INTO BORROW TABLE:

```
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);
```

EXPERIMENT NO:2

SELECTING DATA FROM SINGLE TABLE

1.SELECT*FROM DEPOSIT;

actno	cname	bname	amount	adate
D100	ANIL	VRCE	1000	1995-03-01T00:00:00.000Z
D101	SUNIL	AJNI	500	1996-01-04T00:00:00.000Z
D102	MEHUL	KAROLBAGH	3500	1995-11-17T00:00:00.000Z
D103	MADHURI	CHANDNI	1200	1995-12-17T00:00:00.000Z
D104	PRAMOD	MG ROAD	3000	1996-03-27T00:00:00.000Z
D105	SANDIP	ANDHERI	2000	1996-03-31T00:00:00.000Z
D106	SHIVANI	DHARAMPETH	1000	1995-09-05T00:00:00.000Z
D107	KRANTI	NEHRU PALACE	5000	1995-07-02T00:00:00.000Z
D108	NAREN	POWAY	7000	1995-08-10T00:00:00.000Z

2.SELECT*FROM BORROW;

loanno	cname	bname	amount
L201	ANIL	VRCE	1000
L206	MEHUL	AJNI	5000
L311	SUNIL	DHARAMPETH	3000
L321	MADHURI	ANDHERI	2000
L371	PRAMOD	POWAY	8000
L481	KRANTI	NEHRU PALACE	3000

3.SELECT*FROM CUSTOMER;

cname city

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

4.SELECT*FROM BRANCH;

bname City

AJNI	NAGPUR
ANDHERI	BOMBAY
CHANDNI	DELHI
DHARAMPETH	NAGPUR
KAROLBAGH	DELHI
MG ROAD	BANGALORE
NEHRU PALACE	DELHI
POWAY	BOMBAY
VRCE	NAGPUR

5.SELECT ACTNO,AMOUNT FROM DEPOSIT;

actno Amount

D100	1000
D101	500
D102	3500

actno Amount

D103	1200
D104	3000
D105	2000
D106	1000
D107	5000
D108	7000

6.SELECT CNAME,ACTNO FROM DEPOSIT;

cname actno

ANIL	D100
KRANTI	D107
MADHURI	D103
MEHUL	D102
NAREN	D108
PRAMOD	D104
SANDIP	D105
SHIVANI	D106
SUNIL	D101

7.SELECT CNAME FROM CUSTOMER;

cname

ANIL
KRANTI
MADHURI
MANDAR
MEHUL
NAREN
PRAMOD

cname

SANDIP
SHIVANI
SUNIL

8.SELECT BNAME FROM BRANCH;

bname

AJNI
ANDHERI
CHANDNI
DHARAMPETH
KAROLBAGH
MG ROAD
NEHRU PALACE
POWAY
VRCE

9.SELECT CNAME FROM BORROW;

cname

ANIL
KRANTI
MADHURI
MEHUL
PRAMOD
SUNIL

10.SELECT CNAME FROM CUSTOMER WHERE CITY='NAGPUR';

cname

MADHURI

PRAMOD

11.SELECT CNAME from DEPOSIT where AMOUNT>4000;

cname

KRANTI

NAREN

12.SELECT ADATE FROM DEPOSIT where CNAME='ANIL'

adate

1995-03-01T00:00:00.000Z

13.SELECT BNAME from BRANCH where CITY='Bombay'

bname

ANDHERI

POWAY

14.SELECT CNAME from BORROW where LOANNO='L206'

cname

MEHUL

15.SELECT CNAME from DEPOSIT WHERE BNAME='VRCE'

cname

ANIL

16.SELECT BNAME from BRANCH WHERE CITY='Delhi'

bname

CHANDNI
KAROLBAGH
NEHRU PALACE

17.SELECT CNAME from DEPOSIT WHERE ADATE='1996-12-1'

18.SELECT ACTNO,AMOUNT from DEPOSIT WHERE ADATE
BETWEEN '1996-12-1' AND '1996-05-1'

19.SELECT CITY from BRANCH where BNAME='KAROLBAGH'

city

DELHI

20.SELECT * from CUSTOMER join BORROW on
CUSTOMER.CNAME=BORROW.CNAME join DEPOSIT on
DEPOSIT.CNAME=BORROW.CNAME where
CUSTOMER.CNAME='ANIL';

CNAME	CITY	LOANNO	BNAME	AMOUNT	ACTNO	ADATE
ANIL	CALCUTTA	L201	VRCE	1000	D100	1995-03-01T00:00:00.000Z

EXPERIMENT NO 3:

DDL COMMANDS AND CONSTRAINTS:

1. CREATE TABLE EMP(EMPNO NUMERIC(4),ENAME CHAR(10),HIREDATE DATE,SALARY FLOAT,COMM INTEGER(20),PRIMARY KEY(EMPNO));

INSERT INTO EMP VALUES(101,"RAMESH","1980-01-17",5000,NULL);

INSERT INTO EMP VALUES(102,"AJAY","1985-07-05",5000,500);

INSERT INTO EMP VALUES(103,"RAVI","1981-08-12",1500,NULL);

INSERT INTO EMP VALUES(104,"NIKESH","1983-03-03",3000,700);

INSERT INTO EMP VALUES(105,"RAVI","1985-07-05",3000,NULL);

OUTPUT:

EMPNO	ENAME	HIREDATE	SALARY	COMM
101	RAMESH	1980-01-17T00:00:00.000Z	5000	
102	AJAY	1985-07-05T00:00:00.000Z	5000	500
103	RAVI	1981-08-12T00:00:00.000Z	1500	
104	NIKESH	1983-03-03T00:00:00.000Z	3000	700
105	RAVI	1985-07-05T00:00:00.000Z	3000	

2.

a. ALTER TABLE EMP ADD SAL INTEGER(7);

EMPNO	ENAME	HIREDATE	SALARY	COMM	SAL
101	RAMESH	1980-01-17T00:00:00.000Z	5000		

102	AJAY	1985-07-05T00:00:00.000Z	5000	500	
103	RAVI	1981-08-12T00:00:00.000Z	1500		
104	NIKESH	1983-03-03T00:00:00.000Z	3000	700	
105	RAVI	1985-07-05T00:00:00.000Z	3000		

b. ALTER TABLE EMP DROP SAL;

EMPNO	ENAME	HIREDATE	SALARY	COMM
101	RAMESH	1980-01-17T00:00:00.000Z	5000	
102	AJAY	1985-07-05T00:00:00.000Z	5000	500
103	RAVI	1981-08-12T00:00:00.000Z	1500	
104	NIKESH	1983-03-03T00:00:00.000Z	3000	700
105	RAVI	1985-07-05T00:00:00.000Z	3000	

c. ALTER TABLE EMP MODIFY ENAME VARCHAR(10);

d. ALTER TABLE EMP RENAME TO EMP1;

e. TRUNCATE TABLE EMP1;