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	INLA	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;

ioanno	cname	bname	amount
L201	ANIL	VRCE	1000
L206	MEHUL	INLA	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	ВОМВАҮ
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

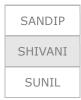
ANIL	D100
KRANTI	D107
MADHURI	D103
MEHUL	D102
NAREN	D108
PRAMOD	D104
SANDIP	D105
SHIVANI	D106
SUNIL	D101

7.SELECT CNAME FROM CUSTOMER;

cname

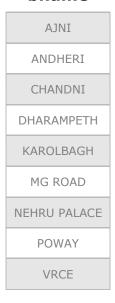
ANIL
KRANTI
MADHURI
MANDAR
MEHUL
NAREN
PRAMOD

cname



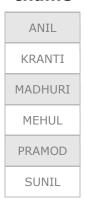
8.SELECT BNAME FROM BRANCH;

bname



9.SELECT CNAME FROM BORROW;

cname



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';

CNAM E	CITY	LOANN O	BNAM E	AMOUN T	ACTN O	ADATE
ANIL	CALCUTT A	L201	VRCE	1000	D100	1995-03- 01T00:00:00.000 Z

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	СОММ
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	СОММ
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;