EXPERIMENT1&2

Aim:
Create the following Tables
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
BRANCH
BNAME VARCHAR2(20) PRIMARY KEY
CITY VARCHAR2(30) NOT NULL , any one of NAGPUR, DELHI, BANGALORE,
BOMBAY

CUSTOMER
CNAME VARCHAR2(15) PRIMARY KEY
CITY VARCHAR2(20) NOT NULL ,

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

2. Inserting values into Customer table
ANIL   CALCUTTA
SUNIL DELHI
MEHUL BARODA
MANDAR   PATNA
MADHURI   NAGPUR
PRAMOD   NAGPUR
SANDIP SURAT
SHIVANI   BOMBAY
KRANTI BOMBAY
NAREN BOMBAY

 3. Inserting values into Deposit table
DEPOSIT

Actno	Cname	Bname	Amount	Adate
D100	ANIL	VRCE	1000.00	1-MAR-95
D101	SUNIL	ANJNI	500.00	4-JAN-96
D102	MEHUL	KAROLBAGH	3500.00	17-NOV-95
D104	MADHURI	CHANDNI	1200.00	17-DEC-95
D105	PRAMOD	MG ROAD	3000.00	27-MAR-96
D106	SANDIP	ANDHERI	2000.00	31-MAR-96
D107	SHIVANI	VIRAR	1000.00	5-SEP-95
D108	KRANTI	NEHRU PLACE	5000.00	2-JUL-95
D109	MINU	POWAI	7000.00	10-AUG-95

 4. Inserting values into borrow table

L201	ANIL	VRCE	1000.00
L206	MEHUL	AJNI	5000.00
L311	SUNIL	DHARAMPETH	3000.00
L321	MADHURI	ANDHERI	2000.00
L371	PRAMOD	VIRAR	8000.00
L481	KRANTI	NEHRU PLACE	3000.00

EXPERIMENT NO. 2: SELECTING DATA FROM SINGLE TABLE

1.   List all data from table deposite
2.   List all data from borrow
3.   List all data from customer
4.   List all data from branch
5.   Give account no and amount of deposite
6.   Give customer name and account no of depositors
7.   Give name of customers
8.   Give name of branches

9. Give name of borrows
10. Give names of customer living in city Nagpur
11. Give names of depositors having amount greater than 4000
12. Give account date of Anil
13. Give name of all branches located in Bombay
14. Give name of borrower having loan number l205
15. Give names of depositors having account at VRCE

16. Give names of all branched located in city Delhi
17. Give name of the customers who opened account date '1-12-96'
18. Give account no and deposit amount of customers having account opened between dates '1-12-96' and '1-5-96'
19. Give name of the city where branch KAROLBAGH is located
20. Give details of customer ANIL

SQL COMMANDS

```
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);

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');
```

```sql
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);

SELECT*FROM DEPOSIT;
SELECT*FROM BORROW;
SELECT*FROM CUSTOMER;
SELECT*FROM BRANCH;
SELECT ACTNO,AMOUNT FROM DEPOSIT;
SELECT CNAME,ACTNO FROM DEPOSIT;
SELECT CNAME FROM CUSTOMER;
SELECT BNAME FROM BRANCH;
SELECT CNAME FROM BORROW;
SELECT CNAME FROM CUSTOMER WHERE CITY='NAGPUR';
SELECT CNAME from DEPOSIT where AMOUNT>4000;
SELECT ADATE FROM DEPOSIT where CNAME='ANIL';
SELECT BNAME from BRANCH where CITY='Bombay';
 SELECT * from BORROW;
```

SELECT CNAME from BORROW where LOANNO='L205';
SELECT CNAME from DEPOSIT WHERE BNAME='VRCE';
SELECT BNAME from BRANCH WHERE CITY='Delhi';
SELECT CNAME from DEPOSIT WHERE ADATE='1996-12-1';
SELECT ACTNO,AMOUNT from DEPOSIT WHERE ADATE BETWEEN '1996-12-1' AND '1996-05-1';
SELECT CITY from BRANCH WHERE BNAME='KAROLBAGH';
SELECT * from customer join borrow on customer.cname=borrow.cname join deposit on deposit.cname=borrow.cname WHERE customer.cname='ANIL';

OUTPUT:

```
47   SELECT*FROM CUSTOMER;
48   SELECT*FROM BRANCH;
49   SELECT ACTNO,AMOUNT FROM DEPOSIT;
50
```

input

```
SHIVANI|BOMBAY
KRANTI|BOMBAY
NAREN|BOMBAY
VRCE|NAGPUR
AJNI|NAGPUR
KAROLBAGH|DELHI
CHANDNI|DELHI
DHARAMPETH|NAGPUR
MG ROAD|BANGALORE
ANDHERI|BOMBAY
NEHRU PALACE|DELHI
POWAI|BOMBAY
D100|1000.0
D101|500.0
D102|3500.0
D104|1200.0
D105|3000.0
D106|2000.0
D107|1000.0
D108|5000.0
D109|7000.0
ANIL|D100
SUNIL|D101
```

```
47   SELECT*FROM CUSTOMER;
48   SELECT*FROM BRANCH;
49   SELECT ACTNO,AMOUNT FROM DEPOSIT;
50
```

input

```
POWAI|BOMBAY
D100|1000.0
D101|500.0
D102|3500.0
D104|1200.0
D105|3000.0
D106|2000.0
D107|1000.0
D108|5000.0
D109|7000.0
ANIL|D100
SUNIL|D101
MEHUL|D102
MADHURI|D104
PRAMOD|D105
SANDIP|D106
SHIVANI|D107
KRANTI|D108
MINU|D109
ANIL
KRANTI
MADHURI
MANDAR
```

```
47  SELECT*FROM CUSTOMER;
48  SELECT*FROM BRANCH;
49  SELECT ACTNO,AMOUNT FROM DEPOSIT;
50
```

input
```
MANDAR
MEHUL
NAREN
PRAMOD
SANDIP
SHIVANI
SUNIL
AJNI
ANDHERI
CHANDNI
DHARAMPETH
KAROLBAGH
MG ROAD
NEHRU PALACE
POWAI
VRCE
ANIL
MEHUL
SUNIL
MADHURI
PRAMOD
KRANTI
MADHURI
```



```
47  SELECT*FROM CUSTOMER;
48  SELECT*FROM BRANCH;
49  SELECT ACTNO,AMOUNT FROM DEPOSIT;
50
```

input
```
ANIL
MEHUL
SUNIL
MADHURI
PRAMOD
KRANTI
MADHURI
PRAMOD
KRANTI
MINU
1-MAR-95
L201|ANIL|VRCE|1000.0
L206|MEHUL|AJNI|5000.0
L311|SUNIL|DHARAMPETH|3000.0
L321|MADHURI|ANDHERI|2000.0
L371|PRAMOD|VIRAR|8000.0
L481|KRANTI|NEHRU PLACE|3000.0
ANIL
DELHI
ANIL|CALCUTTA|L201|ANIL|VRCE|1000.0|D100|ANIL|VRCE|1000.0|1-MAR-95

...Program finished with exit code 0
```