

ADBMS Experiment No 1

CUSTOMER

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

BRANCH

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

DEPOSIT

```
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(8,2) CHECK (AMOUNT>0) NOT NULL, ADATE DATE);
```

BORROW

```
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(8,2) CHECK (AMOUNT>0) NOT NULL);
```

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

```

INSERT INTO DEPOSIT VALUES('D100','ANIL','VRCE', 1000.00 ,'1995-03-1'),
('D101','SUNIL','ANJNI',500.00,'1996-01-4'),
('D102','MEHUL','KAROLBAGH',3500.00,'1995-11-17'),
('D104','MADHURI','CHANDNI',1200.00,'1995-12-17'),
('D105','PRAMOD','MG ROAD',3000.00,'1996-03-27'),
('D106','SANDIP','ANDHERI',2000.00,'1996-03-31'),
('D107','SHIVANI','VIRAR',1000.00,'1995-09-05'),
('D108','KRANTI','NEHRU PALACE',5000.00,'1995-07-02'),
('D109','MINU','POWAI',7000.00,'1995-08-10');

```

```

INSERT INTO BORROW VALUES( '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 deposit

```
select * from deposit;
```

ACTNO	CNAME	BNAME	AMOUNT	ADATE
D100	ANIL	VRCE	1000.00	1995-03-01
D101	SUNIL	ANJNI	500.00	1996-01-04
D102	MEHUL	KAROLBAGH	3500.00	1995-11-17
D104	MADHURI	CHANDNI	1200.00	1995-12-17
D105	PRAMOD	MG ROAD	3000.00	1996-03-27
D106	SANDIP	ANDHERI	2000.00	1996-03-31
D107	SHIVANI	VIRAR	1000.00	1995-09-05
D108	KRANTI	NEHRU PLACE	5000.00	1995-07-02
D109	MINU	POWAI	7000.00	1995-08-10

2. List all data from borrow

select * from borrow;

CNAME	BNAME	AMOUNT
ANIL	VRCE	1000.00
MEHUL	AJNI	5000.00
SUNIL	DHARAMPETH	3000.00
MADHURI	ANDHERI	2000.00
PRAMOD	VIRAR	8000.00
KRANTI	NEHRU PALACE	3000.00

3. List all data from customer

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. List all data from branch

select * from branch;

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

5. Give account no and amount of deposite

select ACTNO, AMOUNT from deposit;

ACTNO	AMOUNT
D100	1000.00
D101	500.00
D102	3500.00
D104	1200.00
D105	3000.00
D106	2000.00
D107	1000.00
D108	5000.00
D109	7000.00

6. Give customer name and account no of depositors

select ACTNO, AMOUNT from deposit;

ACTNO	AMOUNT
D100	1000.00
D101	500.00
D102	3500.00
D104	1200.00
D105	3000.00
D106	2000.00
D107	1000.00
D108	5000.00
D109	7000.00

7. Give name of customers

select CNAME from CUSTOMER

CNAME
ANIL
KRANTI
MADHURI
MANDAR
MEHUL
NAREN
PRAMOD
SANDIP
SHIVANI
SUNIL

8. Give name of branches

select BNAME from branch;

BNAME

AJNI

ANDHERI

CHANDNI

DHARAMPETH

KAROLBAGH

MG ROAD

NEHRU PALACE

POWAI

VRCE

9. Give name of borrows

SELECT CNAME as BORROWERS from borrow;

BORROWERS

ANIL

MEHUL

SUNIL

MADHURI

PRAMOD

KRANTI

10. Give names of customer living in city Nagpur

SELECT cname from customer where city='nagpur'

cname

MADHURI

PRAMOD

11. Give names of depositors having amount greater than 4000

SELECT cname from deposit where amount>4000

cname

KRANTI

MINU

12. Give account date of Anil

SELECT adate from deposit where CNAME='anil';

adate

1-MAR-95

13. Give name of all branches located in Bombay

SELECT bname FROM `branch` WHERE city='bombay'

bname

ANDHERI

POWAI

14. Give name of borrower having loan number l205

```
select cname from borrow where loanno='l205';
```

Empty result

15. Give names of depositors having account at VRCE

```
SELECT cname FROM `borrow` WHERE BNAME='vrce'
```

cname

ANIL

16. Give names of all branches located in city Delhi

```
SELECT bname FROM `branch` WHERE CITY='delhi'
```

bname

CHANDNI

KAROLBAGH

NEHRU PALACE

17. Give name of the customers who opened account date '1-12-96'

```
SELECT cname FROM `deposit` WHERE adate=1996-12-1;
```

Empty result

18. Give account no and deposit amount of customers having account opened between dates '1-12-96' and '1-5-96'

```
SELECT ACTNO,AMOUNT FROM `deposit` WHERE ADATE BETWEEN 1996-12-1 and 1996-05-1
```

Empty result

19. Give name of the city where branch KAROLBAGH is located

```
SELECT city FROM `branch` WHERE BNAME='KAROLBAGH ';
```

city

DELHI

20. Give details of customer ANIL

```
SELECT * FROM customer JOIN borrow on customer.cname=borrow.CNAME JOIN deposit O  
N deposit.CNAME=borrow.CNAME WHERE customer.cname='anil'
```

cname	city	LOANNO	CNAME	BNAME	AMOUNT	ACTNO	CNAME	BNAME	AMOUNT	ADATE
ANIL	CALCUTTA	L201	ANIL	VRCE	1000.00	D100	ANIL	VRCE	1000.00	1-MAR-95