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**Roll no: 40**

**Class: RMCA-B**

**Experiment No: 1 & 2**

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**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

#### DEPOSITE

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 deposit
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 deposit
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');  
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:

```

D100|ANIL|VRCE|1000.0|1-MAR-95
D101|SUNIL|ANJNI|500.0|4-JAN-96
D102|MEHUL|KAROLBAGH|3500.0|17-NOV-95
D104|MADHURI|CHANDNI|1200.0|17-DEC-95
D105|PRAMOD|MG ROAD|3000.0|27-MAR-96
D106|SANDIP|ANDHERI|2000.0|31-MAR-96
D107|SHIVANI|VIRAR|1000.0|5-SEP-95
D108|KRANTI|NEHRU PLACE|5000.0|2-JUL-95
D109|MINU|POWAI|7000.0|10-AUG-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|CALCUTTA
SUNIL|DELHI
MEHUL|BARODA
MANDAR|PATNA
MADHURI|NAGPUR
PRAMOD|NAGPUR
SANDIP|SURAT
SHIVANI|BOMBAY
KRANTI|BOMBAY
NAREN|BOMBAY
VRCE|NAGPUR
AJNI|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
MEHUL|D102
MADHURI|D104
PRAMOD|D105
SANDIP|D106
SHIVANI|D107
KRANTI|D108
MINU|D109
ANIL

```

```
AJNI|NAGPUR
KAROLEAGH|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
MEHUL|D102
MADHURI|D104
PRAMOD|D105
SANDIP |D106
SHIVANI|D107
KRANTI|D108
MINU|D109
ANIL
```

Activate Windows

```
NEHRU PALACE
POWAI
VRCE
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
Press ENTER to exit console.
```

Activate Windows