

EXPERIMENT 1 & 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

SUNILDELHI

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	SUNILANJNI		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	SUNILDHARAMPETH		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 branches 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

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Language SQLite

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

input

```
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
```

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Language SQLite

```
main.sql
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
```

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Language SQLite

main.sql

```
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
```

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Language SQLite

main.sql

```
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
```

beta

for c/c++

share.

main.sql

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

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