DBMS LAB
Experiment 1,2

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MCA A
Roll no: 34

EXPERIMENT 1

```
CREATE TABLE BRANCH(BNAME VARCHAR(20) PRIMARY KEY,CITY
VARCHAR(30)
CHECK (CITY IN ('NAGPUR','DELHI','BANGALORE','BOMBAY')) NOT NULL);
INSERT INTO BRANCH (BNAME,CITY) VALUES ('VRCE','NAGPUR');
INSERT INTO BRANCH (BNAME,CITY) VALUES ('AJNI','NAGPUR');
INSERT INTO BRANCH (BNAME,CITY) VALUES ('KAROLBAGH','DELHI');
INSERT INTO BRANCH (BNAME,CITY) VALUES ('CHANDNI','DELHI');
INSERT INTO BRANCH (BNAME,CITY) VALUES ('DHARAMPETH','NAGPUR');
INSERT INTO BRANCH (BNAME,CITY) VALUES ('MG ROAD','BANGALORE');
INSERT INTO BRANCH (BNAME,CITY) VALUES ('ANDHERI','BOMBAY');
INSERT INTO BRANCH (BNAME,CITY) VALUES ('NEHRU PALACE','DELHI');
INSERT INTO BRANCH (BNAME,CITY) VALUES ('POWAI','BOMBAY');

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

```sql
CREATE TABLE DEPOSIT (
ACTNO VARCHAR(25) PRIMARY KEY CHECK ( ACTNO LIKE 'a%'),CNAME
VARCHAR(15), BNAME VARCHAR(20), FOREIGN KEY(BNAME) REFERENCES
BRANCH(BNAME),FOREIGN KEY (CNAME) REFERENCES customer(CNAME),
AMOUNT NUMERIC(8,2) NOT NULL CHECK(AMOUNT != 0), ADATE DATE
);
INSERT INTO deposit(ACTNO,CNAME,BNAME,AMOUNT,ADATE)
VALUES('D100', 'ANIL', 'VRCE',' 1000.00',' 1995-03-01');
INSERT INTO deposit(ACTNO,CNAME,BNAME,AMOUNT,ADATE)
VALUES('D101','SUNIL','AJNI',' 500.00','1996-01-04');
INSERT INTO deposit(ACTNO,CNAME,BNAME,AMOUNT,ADATE)
VALUES('D102','MEHUL','KAROLBAGH ','3500.00','1995-11-17');
INSERT INTO deposit(ACTNO,CNAME,BNAME,AMOUNT,ADATE)
VALUES('D104','MADHURI', 'CHANDNI', '1200.00', '1995-12-17');
INSERT INTO deposit(ACTNO,CNAME,BNAME,AMOUNT,ADATE)
VALUES('D105', 'PRAMOD', 'MG ROAD', '3000.00', '1996-03-27');
INSERT INTO deposit(ACTNO,CNAME,BNAME,AMOUNT,ADATE)
VALUES('D106','SANDIP','ANDHERI', '2000.00','1996-03-31');
INSERT INTO deposit(ACTNO,CNAME,BNAME,AMOUNT,ADATE)
VALUES('D107','SHIVANI', 'VRCE', '1000.00', '1995-09-05');
INSERT INTO deposit(ACTNO,CNAME,BNAME,AMOUNT,ADATE)
VALUES('D108', 'KRANTI', 'NEHRU PALACE', '5000.00', '1995-07-02');
INSERT INTO deposit(ACTNO,CNAME,BNAME,AMOUNT,ADATE)
VALUES('D109', 'NAREN', 'POWAI', '7000.00', '1995-08-10');


CREATE TABLE BORROW (
LOANNO VARCHAR(8) PRIMARY KEY CHECK ( LOANNOLIKE 'L%'),CNAME
VARCHAR(15), BNAME VARCHAR(20), FOREIGN KEY(BNAME) REFERENCES
BRANCH(BNAME),FOREIGN KEY (CNAME) REFERENCES customer(CNAME),
AMOUNT NUMERIC(8,2) NOT NULL CHECK(AMOUNT != 0)
);
INSERT INTO borrow(LOANNO,CNAME,BNAME,AMOUNT)
VALUES('L201','ANIL','VRCE','1000.00');
INSERT INTO borrow(LOANNO,CNAME,BNAME,AMOUNT)
VALUES('L206','MEHUL','AJNI','5000.00');
```

INSERT INTO borrow(LOANNO,CNAME,BNAME,AMOUNT)
VALUES('L311','SUNIL','AJNI','3000.00');
INSERT INTO borrow(LOANNO,CNAME,BNAME,AMOUNT)
VALUES('L321','MADHURI','CHANDNI','2000.00');
INSERT INTO borrow(LOANNO,CNAME,BNAME,AMOUNT)
VALUES('L371','PRAMOD','MG ROAD','8000.00');
INSERT INTO borrow(LOANNO,CNAME,BNAME,AMOUNT)
VALUES('L481','KRANTI','NEHRU PALACE','3000.00');

EXPERIMENT NO. 2: SELECTING DATA FROM SINGLE TABLE

1. SELECT * FROM DEPOSIT;

+ Options

		ACTNO	CNAME	BNAME	AMOUNT	ADATE
□	Edit Copy Delete	D100	ANIL	VRCE	1000.00	0000-00-00
□	Edit Copy Delete	D101	SUNIL	AJNI	500.00	0000-00-00
□	Edit Copy Delete	D102	MEHUL	KAROLBAGH	3500.00	0000-00-00
□	Edit Copy Delete	D104	MADHURI	CHANDNI	1200.00	0000-00-00
□	Edit Copy Delete	D105	PRAMOD	MG ROAD	3000.00	0000-00-00
□	Edit Copy Delete	D106	SANDIP	ANDHERI	2000.00	0000-00-00
□	Edit Copy Delete	D107	SHIVANI	VRCE	1000.00	0000-00-00
□	Edit Copy Delete	D108	KRANTI	NEHRU PALACE	5000.00	0000-00-00
□	Edit Copy Delete	D109	NAREN	POWAI	7000.00	0000-00-00

2. SELECT * FROM BORROW;

+ Options

		LOANNO	CNAME	BNAME	AMOUNT
□	Edit Copy Delete	L201	ANIL	VRCE	1000.00
□	Edit Copy Delete	L206	MEHUL	AJNI	5000.00
□	Edit Copy Delete	L311	SUNIL	AJNI	3000.00
□	Edit Copy Delete	L321	MADHURI	CHANDNI	2000.00
□	Edit Copy Delete	L371	PRAMOD	MG ROAD	8000.00
□	Edit Copy Delete	L481	KRANTI	NEHRU PALACE	3000.00

3. SELECT * FROM CUSTOMER;

	CNAME	CITY
☐ 🖉 Edit ⧉ Copy ⊖ Delete	ANIL	CALCUTTA
☐ 🖉 Edit ⧉ Copy ⊖ Delete	KRANTI	BOMBAY
☐ 🖉 Edit ⧉ Copy ⊖ Delete	MADHURI	NAGPUR
☐ 🖉 Edit ⧉ Copy ⊖ Delete	MANDAR	PATNA
☐ 🖉 Edit ⧉ Copy ⊖ Delete	MEHUL	BARODA
☐ 🖉 Edit ⧉ Copy ⊖ Delete	NAREN	BOMBAY
☐ 🖉 Edit ⧉ Copy ⊖ Delete	PRAMOD	NAGPUR
☐ 🖉 Edit ⧉ Copy ⊖ Delete	SANDIP	SURAT
☐ 🖉 Edit ⧉ Copy ⊖ Delete	SHIVANI	BOMBAY
☐ 🖉 Edit ⧉ Copy ⊖ Delete	SUNIL	DELHI

4. SELECT * FROM BRANCH;

	BNAME	CITY
☐ 🖉 Edit ⧉ Copy ⊖ Delete	AJNI	NAGPUR
☐ 🖉 Edit ⧉ Copy ⊖ Delete	ANDHERI	BOMBAY
☐ 🖉 Edit ⧉ Copy ⊖ Delete	CHANDNI	DELHI
☐ 🖉 Edit ⧉ Copy ⊖ Delete	DHARAMPETH	NAGPUR
☐ 🖉 Edit ⧉ Copy ⊖ Delete	KAROLBAGH	DELHI
☐ 🖉 Edit ⧉ Copy ⊖ Delete	MG ROAD	BANGALORE
☐ 🖉 Edit ⧉ Copy ⊖ Delete	NEHRU PALACE	DELHI
☐ 🖉 Edit ⧉ Copy ⊖ Delete	POWAI	BOMBAY
☐ 🖉 Edit ⧉ Copy ⊖ Delete	VRCE	NAGPUR

5. SELECT ACTNO,AMOUNT FROM deposit;

	ACTNO	AMOUNT
☐ 🖉 Edit ⧉ Copy ⊖ Delete	D100	1000.00
☐ 🖉 Edit ⧉ Copy ⊖ Delete	D101	500.00
☐ 🖉 Edit ⧉ Copy ⊖ Delete	D102	3500.00
☐ 🖉 Edit ⧉ Copy ⊖ Delete	D104	1200.00
☐ 🖉 Edit ⧉ Copy ⊖ Delete	D105	3000.00
☐ 🖉 Edit ⧉ Copy ⊖ Delete	D106	2000.00
☐ 🖉 Edit ⧉ Copy ⊖ Delete	D107	1000.00
☐ 🖉 Edit ⧉ Copy ⊖ Delete	D108	5000.00
☐ 🖉 Edit ⧉ Copy ⊖ Delete	D109	7000.00

6. SELECT CNAME,ACTNO FROM deposit;

				CNAME	ACTNO
☐	🖉 Edit	⊟ Copy	⊖ Delete	ANIL	D100
☐	🖉 Edit	⊟ Copy	⊖ Delete	KRANTI	D108
☐	🖉 Edit	⊟ Copy	⊖ Delete	MADHURI	D104
☐	🖉 Edit	⊟ Copy	⊖ Delete	MEHUL	D102
☐	🖉 Edit	⊟ Copy	⊖ Delete	NAREN	D109
☐	🖉 Edit	⊟ Copy	⊖ Delete	PRAMOD	D105
☐	🖉 Edit	⊟ Copy	⊖ Delete	SANDIP	D106
☐	🖉 Edit	⊟ Copy	⊖ Delete	SHIVANI	D107
☐	🖉 Edit	⊟ Copy	⊖ Delete	SUNIL	D101

7. SELECT CNAME FROM customer;

				CNAME
☐	🖉 Edit	⊟ Copy	⊖ Delete	ANIL
☐	🖉 Edit	⊟ Copy	⊖ Delete	KRANTI
☐	🖉 Edit	⊟ Copy	⊖ Delete	MADHURI
☐	🖉 Edit	⊟ Copy	⊖ Delete	MANDAR
☐	🖉 Edit	⊟ Copy	⊖ Delete	MEHUL
☐	🖉 Edit	⊟ Copy	⊖ Delete	NAREN
☐	🖉 Edit	⊟ Copy	⊖ Delete	PRAMOD
☐	🖉 Edit	⊟ Copy	⊖ Delete	SANDIP
☐	🖉 Edit	⊟ Copy	⊖ Delete	SHIVANI
☐	🖉 Edit	⊟ Copy	⊖ Delete	SUNIL

8. SELECT bname FROM branch;

←T→				bname
☐	🖊 Edit	⯇ Copy	⊖ Delete	AJNI
☐	🖊 Edit	⯇ Copy	⊖ Delete	ANDHERI
☐	🖊 Edit	⯇ Copy	⊖ Delete	CHANDNI
☐	🖊 Edit	⯇ Copy	⊖ Delete	DHARAMPETH
☐	🖊 Edit	⯇ Copy	⊖ Delete	KAROLBAGH
☐	🖊 Edit	⯇ Copy	⊖ Delete	MG ROAD
☐	🖊 Edit	⯇ Copy	⊖ Delete	NEHRU PALACE
☐	🖊 Edit	⯇ Copy	⊖ Delete	POWAI
☐	🖊 Edit	⯇ Copy	⊖ Delete	VRCE

9. SELECT cname FROM borrow;

←T→				cname
☐	🖊 Edit	⯇ Copy	⊖ Delete	ANIL
☐	🖊 Edit	⯇ Copy	⊖ Delete	KRANTI
☐	🖊 Edit	⯇ Copy	⊖ Delete	MADHURI
☐	🖊 Edit	⯇ Copy	⊖ Delete	MEHUL
☐	🖊 Edit	⯇ Copy	⊖ Delete	PRAMOD
☐	🖊 Edit	⯇ Copy	⊖ Delete	SUNIL

10. SELECT CNAME FROM CUSTOMER WHERE CITY= NAGPUR;

←T→				CNAME
☐	🖊 Edit	⯇ Copy	⊖ Delete	MADHURI
☐	🖊 Edit	⯇ Copy	⊖ Delete	PRAMOD

11. SELECT CNAME FROM deposit WHERE AMOUNT>4000;

←T→				CNAME
☐	🖉 Edit	⌗ Copy	⊖ Delete	KRANTI
☐	🖉 Edit	⌗ Copy	⊖ Delete	NAREN

12. select ADATE from deposit where CNAME="ANIL";

←T→				ADATE
☐	🖉 Edit	⌗ Copy	⊖ Delete	1995-03-01

13. select BNAME from branch where CITY="BOMBAY";

+ Options

←T→				BNAME
☐	🖉 Edit	⌗ Copy	⊖ Delete	ANDHERI
☐	🖉 Edit	⌗ Copy	⊖ Delete	POWAI

14. select CNAME from borrow where LOANNO="L205";

No output

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0018 seconds.)

select CNAME from borrow where LOANNO="L205"

☐ Profiling [Edit in

CNAME

Query results operations

🗔 Create view

15. select CNAME from deposit where BNAME="VRCE";

←T→				CNAME
☐	🖊 Edit	Copy	⊖ Delete	ANIL
☐	🖊 Edit	Copy	⊖ Delete	SHIVANI

16. select BNAME from BRANCH where CITY="DELHI";

←T→				BNAME
☐	🖊 Edit	Copy	⊖ Delete	CHANDNI
☐	🖊 Edit	Copy	⊖ Delete	KAROLBAGH
☐	🖊 Edit	Copy	⊖ Delete	NEHRU PALACE

17. select CNAME from CUSTOMER where ADATE=1996-12-01;

No output

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0065 seconds.)

SELECT C.CNAME,D.ADATE FROM customer C,deposit D WHERE C.CNAME=D.CNAME AND ADATE='1996-05-01'

☐ Profiling [Edit inline] [Edit

CNAME	ADATE

Query results operations

🖼 Create view

18. select ACTNO,AMOUNT from deposit where ADATE between 1996-12-01 AND 1996-05-01;

No output

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0105 seconds.)

select ACTNO,AMOUNT from deposit where ADATE between 1996-12-01 AND 1996-05-01

☐ Profiling [Edit inline] [Edit] [E

ACTNO	AMOUNT

Query results operations

🖼 Create view

19. select CITY from branch WHERE BNAME="KAROLBAGH";

←T→		CITY
☐ 🖊 Edit ⬛ Copy ⛔ Delete	DELHI

20. SELECT * FROM customer C, branch BR,deposit D,borrow BO WHERE C.CNAME='ANIL' AND C.CNAME=D.CNAME AND C.CNAME=BO.CNAME AND D.BNAME=BR.BNAME;

+ Options

CNAME	CITY	LOANNO	CNAME	BNAME	AMOUNT	ACTNO	CNAME	BNAME	AMOUNT	ADATE
ANIL	CALCUTTA	L201	ANIL	VRCE	1000.00	D100	ANIL	VRCE	1000.00	1995-03-01