#### **DBMS LAB**

# Experiment 1,2

Billan Jacob John 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');
```

```
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**

### SELECT \* FROM DEPOSIT;

+ Op	Options							
<b>←</b> 7	$\rightarrow$		$\nabla$	ACTNO	CNAME	BNAME	AMOUNT	ADATE
	🥜 Edit	Сору	Delete	D100	ANIL	VRCE	1000.00	0000-00-00
	Edit	<b>≩</b> Copy	Delete	D101	SUNIL	AJNI	500.00	0000-00-00
	<i></i> Edit	<b>≩</b> Copy	Delete	D102	MEHUL	KAROLBAGH	3500.00	0000-00-00
	<i></i> €dit	<b>≩</b> € Copy	Delete	D104	MADHURI	CHANDNI	1200.00	0000-00-00
	🥜 Edit	<b>≩</b> Сору	Delete	D105	PRAMOD	MG ROAD	3000.00	0000-00-00
	<i></i> €dit	<b>≩</b> Copy	Delete	D106	SANDIP	ANDHERI	2000.00	0000-00-00
	🥜 Edit	Сору	Delete	D107	SHIVANI	VRCE	1000.00	0000-00-00
	Edit	<b>≩</b> Copy	Delete	D108	KRANTI	NEHRU PALACE	5000.00	0000-00-00
	🥜 Edit	<b>Сору</b>	Delete	D109	NAREN	POWAI	7000.00	0000-00-00

### 2. SELECT \* FROM BORROW;

+ Op	+ Options						
←7	$\rightarrow$		$\triangledown$	LOANNO	CNAME	BNAME	AMOUNT
		<b>≩</b> € Copy	Delete	L201	ANIL	VRCE	1000.00
	Edit	<b>≩</b> € Copy	Delete	L206	MEHUL	AJNI	5000.00
		<b>≩</b> Copy	Delete	L311	SUNIL	AJNI	3000.00
	Edit	<b>≩</b> € Copy	Delete	L321	MADHURI	CHANDNI	2000.00
		<b>≩</b> Copy	Delete	L371	PRAMOD	MG ROAD	8000.00
	Edit	<b>≩</b> € Copy	Delete	L481	KRANTI	NEHRU PALACE	3000.00

# 3. SELECT \* FROM CUSTOMER;

←Ţ	→		$\nabla$	CNAME	CITY
	🥜 Edit	<b>≩</b> Сору	Delete	ANIL	CALCUTTA
	Edit	<b>≩</b> Copy	Delete	KRANTI	BOMBAY
	Edit	Сору	Delete	MADHURI	NAGPUR
		<b>≩</b> € Copy	Delete	MANDAR	PATNA
	🥜 Edit	<b>≩</b> € Сору	Delete	MEHUL	BARODA
	Edit	<b>≩</b> Copy	Delete	NAREN	BOMBAY
	🥜 Edit	Сору	Delete	PRAMOD	NAGPUR
	<i></i> € Edit	<b>≩</b> € Copy	Delete	SANDIP	SURAT
	🥜 Edit	Сору	Delete	SHIVANI	BOMBAY
		<b>≩</b> € Copy	Delete	SUNIL	DELHI

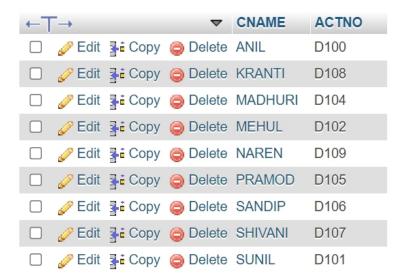
## 4. SELECT \* FROM BRANCH;



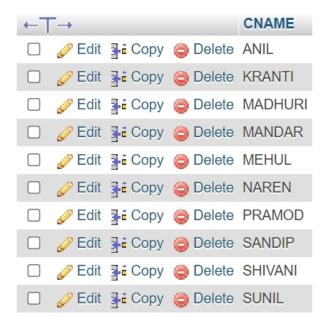
# 5. SELECT ACTNO, AMOUNT FROM deposit;

<b>←</b> T→		$\triangledown$	ACTNO	AMOUNT
☐	<b>≩</b> Copy	Delete	D100	1000.00
□ Ø Edit	<b>≩</b> Copy	Delete	D101	500.00
☐	<b>≩</b> Copy	Delete	D102	3500.00
□ Ø Edit	<b>≩</b> € Copy	Delete	D104	1200.00
☐	Сору	Delete	D105	3000.00
□ Ø Edit	<b>≩</b> € Copy	Delete	D106	2000.00
☐ 🥜 Edit	<b>≩</b> сору	Delete	D107	1000.00
□ <i>⊘</i> Edit	<b>≩</b> € Copy	Delete	D108	5000.00
□ <i>⊘</i> Edit	<b>≩</b> Copy	Delete	D109	7000.00

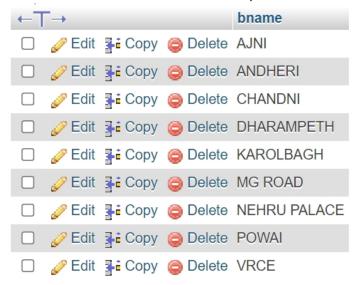
### 6. SELECT CNAME, ACTNO FROM deposit;



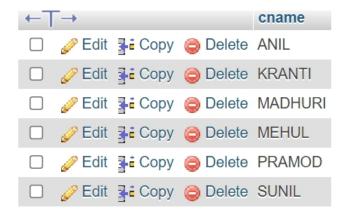
#### 7. SELECT CNAME FROM customer;



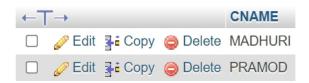
8. SELECT bname FROM branch;



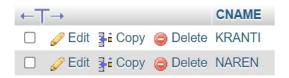
9. SELECT cname FROM borrow;



10. SELECT CNAME FROM CUSTOMER WHERE CITY= NAGPUR;



11. SELECT CNAME FROM deposit WHERE AMOUNT>4000;



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

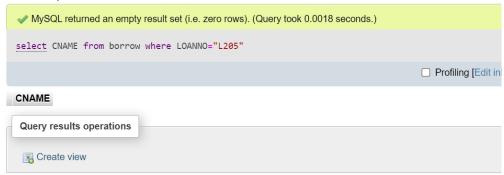


13. select BNAME from branch where CITY="BOMBAY";

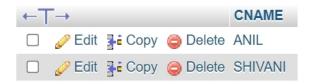


14. select CNAME from borrow where LOANNO="L205";

## No output



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

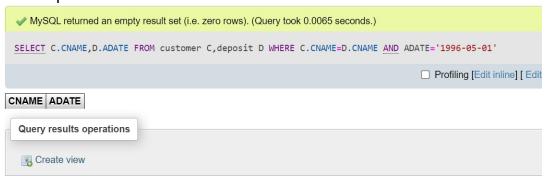


16. select BNAME from BRANCH where CITY="DELHI";



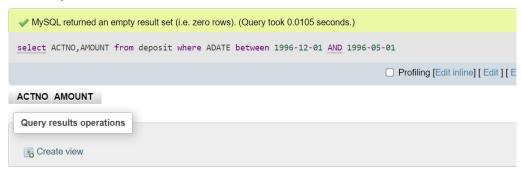
17. select CNAME from CUSTOMER where ADATE=1996-12-01;

## No output



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

## No output



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



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;

