20MCA134-ADVANCED DBMS LAB

EXPERIMENTS

SUBMITTED BY,

JOBIN JOSEPH

S2-RMCA

ROLL NO: 01

Experiment No: 1 Date: 03/05/2021

Aim:

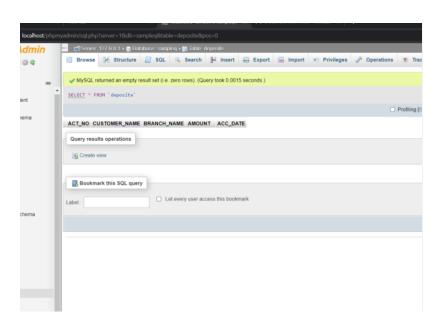
Create the following Tables

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

QUERY

CREATE TABLE DEPOSITE (ACT_NO varchar (5) CHECK (ACT_NO LIKE 'D%'), PRIMARY K
EY(ACT_NO), CUSTOMER_NAME varchar (15), FOREIGN KEY (CUSTOMER_NAME) REFERENC
ES customer (CUSTOMER_NAME), BRANCH_NAME varchar (20), FOREIGN KEY (BRANCH_NA
ME) REFERENCES branch (BRANCH_NAME), AMOUNT float (8,2) NOT NULL CHECK (AMOUNT
>0), ACC_DATE date)
SELECT * FROM 'deposite'



BRANCH

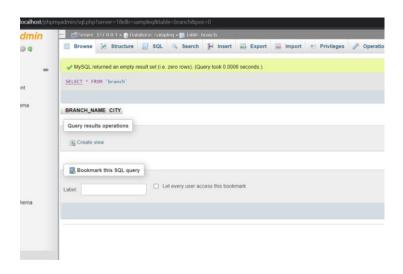
BNAME VARCHAR2(20) PRIMARY KEY

CITY VARCHAR2(30) NOT NULL, any one of NAGPUR, DELHI, BANGALORE, BOMBAY

QUERY

```
CREATE TABLE branch(BRANCH_NAME varchar(20)PRIMARY KEY, CITY varchar(30) NO
T NULL CHECK(CITY IN('NAGPUR','DELHI','BANGALORE','BOMBAY')))
SELECT * FROM 'branch'
```

OUTPUT



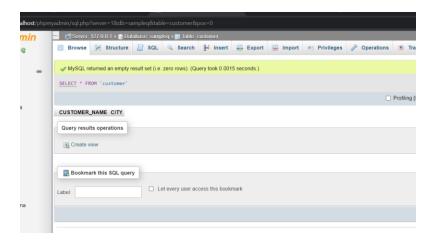
CUSTOMER

CNAME VARCHAR2(15) PRIMARY KEY

CITY VARCHAR2(20) NOT NULL,

```
CREATE TABLE CUSTOMER(CUSTOMER_NAME varchar(20) PRIMARY KEY, CITY varchar(3 0) NOT NULL)

SELECT * FROM 'customer'
```



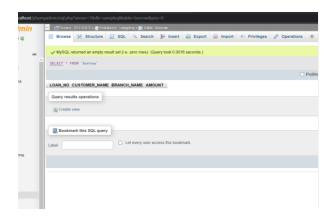
BORROW

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

QUERY

CREATE TABLE BORROW(LOAN_NO varchar(8) CHECK (LOAN_NO LIKE 'L%'), PRIMARY K
EY(LOAN_NO), CUSTOMER_NAME varchar(15), FOREIGN KEY(CUSTOMER_NAME) REFERENC
ES customer(CUSTOMER_NAME), BRANCH_NAME varchar(20), FOREIGN KEY(BRANCH_NAM
E) REFERENCES branch(BRANCH_NAME), AMOUNT float(8,2) NOT NULL CHECK(AMOUNT>
0))

SELECT * FROM borrow



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

QUERY

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');

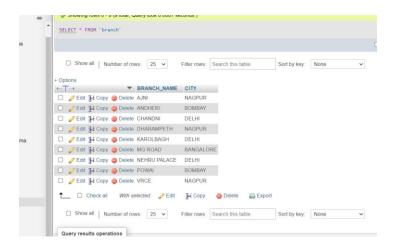
INSERT INTO branch VALUES('MG ROAD', 'BANGALORE');

INSERT INTO branch VALUES('ANDHERI', 'BOMBAY');

INSERT INTO branch VALUES('NEHRU PALACE', 'DELHI');

INSERT INTO branch VALUES('POWAI','BOMBAY');

SELECT * FROM 'branch'



2. <u>Inserting values into Customer table</u>

ANIL CALCUTTA

SUNIL DELHI

MEHUL BARODA

MANDAR PATNA

MADHURI NAGPUR

PRAMOD NAGPUR

SANDIP SURAT

SHIVANI BOMBAY

KRANTI BOMBAY

NAREN BOMBAY

QUERY

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');

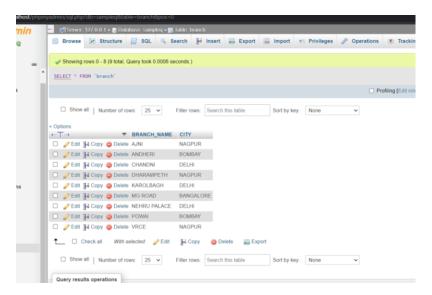
INSERT INTO customer VALUES('SANDIP','SURAT');

INSERT INTO customer VALUES('SHIVANI', 'BOMBAY');

INSERT INTO customer VALUES('KRANTI', 'BOMBAY');

INSERT INTO customer VALUES('NAREN', 'BOMBAY');

SELECT * FROM 'customer'



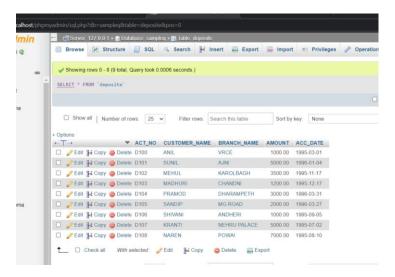
3. <u>Inserting values into Deposite table</u>

DEPOSITE

Actno	Cname Bname Amount				Adate		
D100	ANIL VRCE		1000.00		1-MAR-95		
D101	SUNIL	ANJNI	500.00	4-JAN-9)6		
D102	MEHUL	KAROLE	BAGH	3500.00)	17-NOV	'- 95
D104	MADHL	JRI	CHAND	NI	1200.00)	17-DEC-95
D105	PRAMO	D	MG RO	AD	3000.00)	27-MAR-96
D106	SANDIP	ANDHE	RI	2000.00		31-MAR-96	
D107	SHIVANI		VIRAR	1000.00		5-SEP-95	
D108	KRANTI	NEHRU	PLACE	5000.00)	2-JUL-9	5
D109	MINU	POWAI	7000.00)	10-AUG	i-95	

OUERY

```
INSERT INTO deposite VALUES('D100','ANIL','VRCE',1000,'1995-03-01');
INSERT INTO deposite VALUES('D101','SUNIL','AJNI',5000,'1996-01-04');
INSERT INTO deposite VALUES('D102','MEHUL','KAROLBAGH',3500,'1995-11-17');
INSERT INTO deposite VALUES('D103','MADHURI','CHANDNI',1200,'1995-12-17');
INSERT INTO deposite VALUES('D104','PRAMOD','DHARAMPETH',3000,'1996-03-31');
INSERT INTO deposite VALUES('D105','SANDIP','MG ROAD',2000,'1996-03-27');
INSERT INTO deposite VALUES('D106','SHIVANI','ANDHERI',1000,'1995-09-05');
INSERT INTO deposite VALUES('D107','KRANTI','NEHRU PALACE',5000,'1995-07-02');
INSERT INTO deposite VALUES('D108','NAREN','POWAI',7000,'1995-08-10');
```



4. <u>Inserting values into borrow table</u>

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

QUERY

INSERT INTO borrow VALUES('L201','ANIL','VRCE',1000);

INSERT INTO borrow VALUES('L206', 'MEHUL', 'KAROLBAGH', 5000);

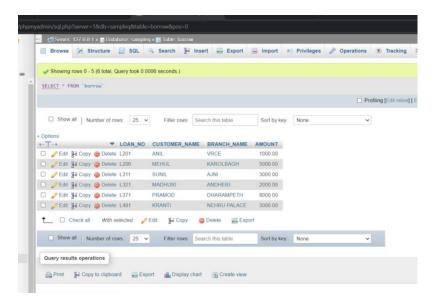
INSERT INTO borrow VALUES('L311','SUNIL','AJNI',3000);

INSERT INTO borrow VALUES('L321','MADHURI','ANDHERI',2000);

INSERT INTO borrow VALUES('L371','PRAMOD','DHARAMPETH',8000);

INSERT INTO borrow VALUES('L481', 'KRANTI', 'NEHRU PALACE', 3000);

SELECT * FROM 'borrow'



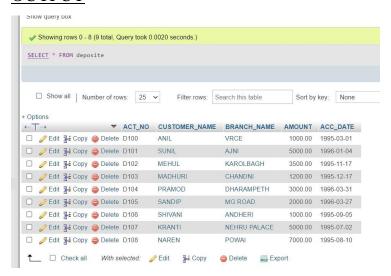
EXPERIMENT NO. 2: SELECTING DATA FROM SINGLE TABLE

1.List all data from table deposite

QUERY

SELECT * FROM deposite

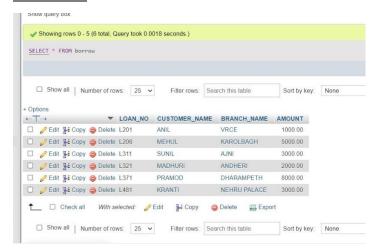
OUTPUT



2.List all data from borrow

QUERY

SELECT * FROM borrow

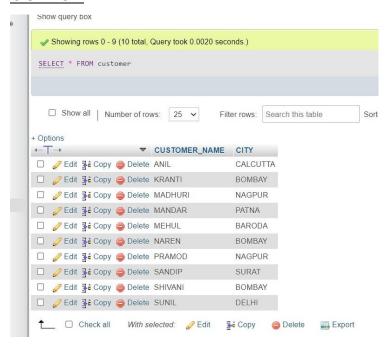


3. List all data from customer

QUERY

SELECT * FROM customer

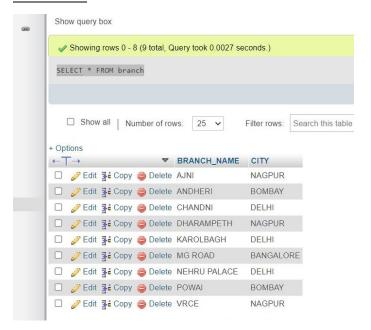
OUTPUT



4.List all data from branch

QUERY

SELECT * FROM branch

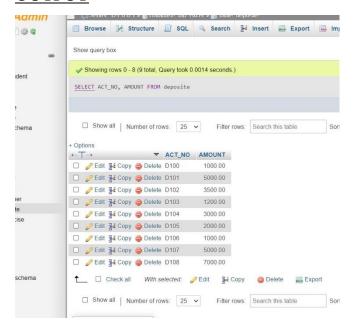


5. Give account no and amount of deposite

OUERY

SELECT ACT NO, AMOUNT FROM deposite

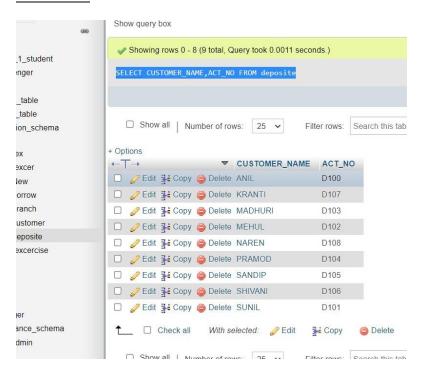
OUTPUT



6. Give customer name and account no of depositors

QUERY

SELECT CUSTOMER NAME, ACT NO FROM deposite

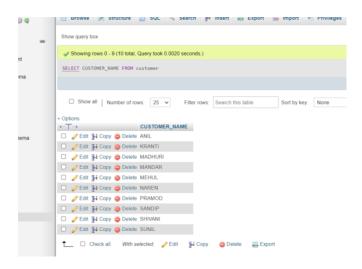


7. Give name of customers

QUERY

SELECT CUSTOMER NAME FROM customer

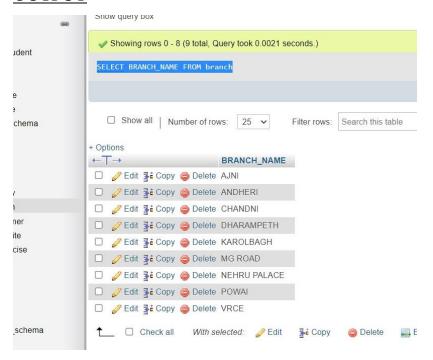
OUTPUT



8. Give name of branches

SELECT BRANCH NAME FROM branch

OUTPUT

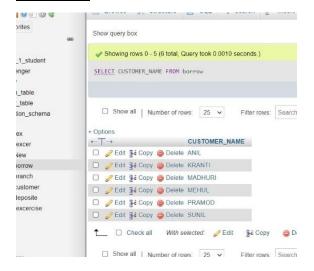


9. Give name of borrows

QUERY

SELECT CUSTOMER NAME FROM borrow

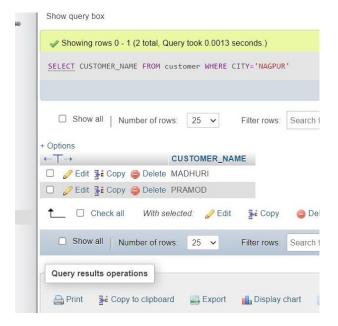
OUTPUT



10. Give names of customer living in city Nagpur

SELECT CUSTOMER NAME FROM customer WHERE CITY='NAGPUR'

OUTPUT

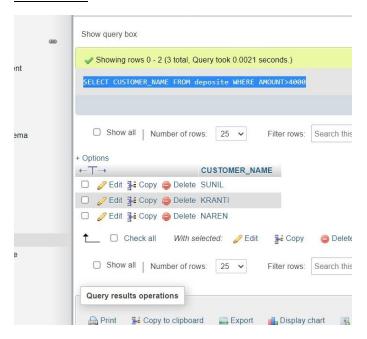


11. Give names of depositors having amount greater than 4000

QUERY

SELECT CUSTOMER NAME FROM deposite WHERE AMOUNT>4000

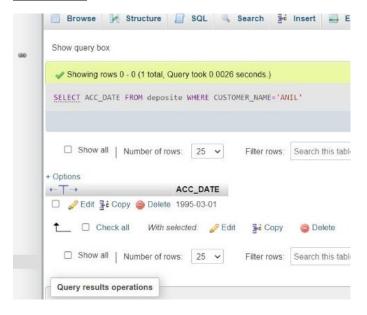
OUTPUT



12. Give account date of Anil

SELECT ACC DATE FROM deposite WHERE CUSTOMER NAME='ANIL'

OUTPUT

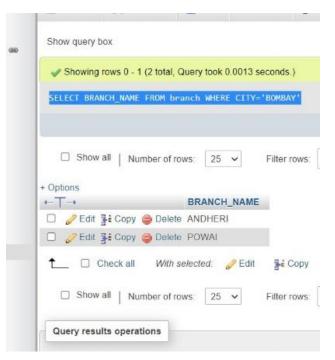


13. Give name of all branches located in Bombay

QUERY

SELECT BRANCH NAME FROM branch WHERE CITY='BOMBAY'

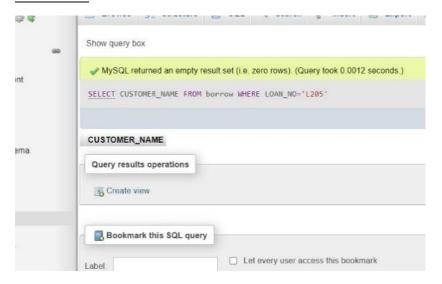
OUTPUT



14. Give name of borrower having loan number 1205

SELECT CUSTOMER NAME FROM borrow WHERE LOAN NO='L205'

OUTPUT

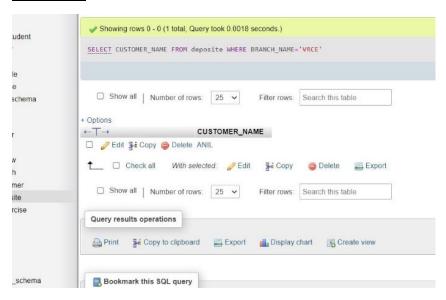


15. Give names of depositors having account at VRCE

QUERY

SELECT CUSTOMER NAME FROM deposite WHERE BRANCH NAME='VRCE'

OUTPUT



16. Give names of all branched located in city Delhi

SELECT BRANCH NAME FROM branch WHERE CITY='DELHI'

OUTPUT

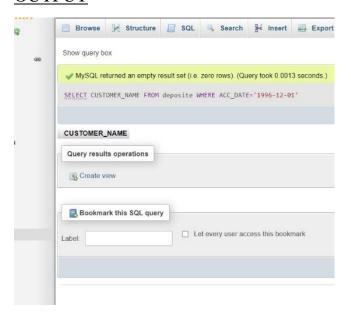


17. Give name of the customers who opened account date '1-12-96'

QUERY

SELECT CUSTOMER_NAME FROM deposite WHERE ACC_DATE='1996-12-01'

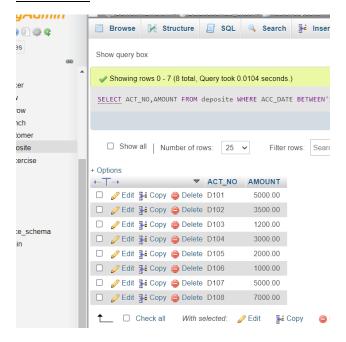
OUTPUT



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

SELECT ACT_NO, AMOUNT FROM deposite WHERE ACC_DATE BETWEEN'1995-05-01'AND'1996-12-01'

OUTPUT

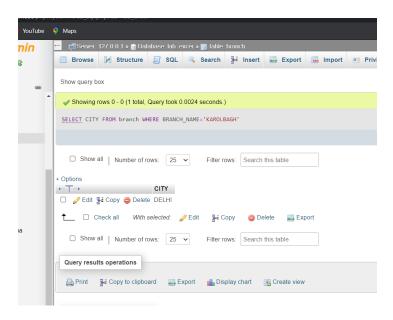


19. Give name of the city where branch KAROLBAGH is located

QUERY

SELECT CITY FROM branch WHERE BRANCH NAME='KAROLBAGH'

OUTPUT



20. Give details of customer ANIL

SELECT * FROM customer JOIN borrow ON customer.CUSTOMER_NAME=borrow.CUSTOMER R_NAME JOIN deposite ON deposite.CUSTOMER_NAME=borrow.CUSTOMER_NAME WHERE c ustomer.CUSTOMER NAME='ANIL'

