Vidhya Prasad

Roll No:38

RMCA-B

## Experiment No:1

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);

1). INSERT INTO BRANCH VALUES('VRCE','NAGPUR');

INSERT INTO BRANCH VALUES ('AJNI', 'NAGPUR');

INSERT INTO BRANCH VALUES ('KAROLBAGH', 'DELHI');

INSERT INTO BRANCH VALUES ('CHANDNI', 'DELHI');

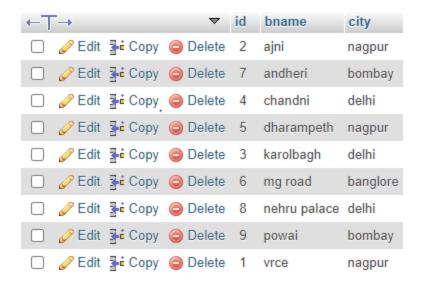
 $INSERT\ INTO\ BRANCH\ VALUES ('DHARAMPETH', 'NAGPUR');$ 

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');



2). 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');

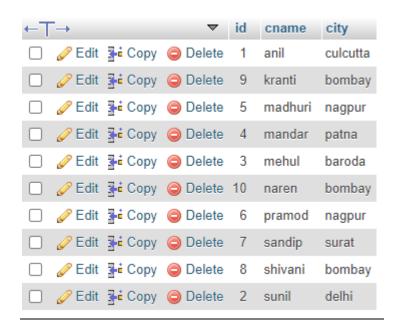
INSERT INTO CUSTOMER VALUES('SANDIP','SURAT');

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

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

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

#### **OUTPUT:**



3). 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');

## **OUTPUT:**

←Τ	<b>→</b>	$\triangledown$	id	actno	cname	bname	amount	adate
	Ø Edit ≩ Cop	y 🔘 Delete	1	d100	anil	vrce	1000	1995-03-01
	Ø Edit ≩ Cop	y 🔘 Delete	2	d101	sunil	anjai	500	1996-01-04
	Ø Edit ≩ Cop	y 🔘 Delete	3	d102	mehul	karolbagh	3500	1995-11-16
	Ø Edit ≩ Cop	y 🥥 Delete	4	d103	madhuri	chandni	1200	1995-12-17
	Ø Edit ≩ Cop	y 🔘 Delete	5	d104	pramod	mg road	3000	1996-03-27
	Ø Edit ≩ Cop	y 🥥 Delete	6	d105	sandip	andheri	2000	1996-01-21
	Ø Edit ≩€ Cop	y 🥥 Delete	7	d106	shivani	virar	1000	1995-10-05
	Ø Edit ≩ Cop	y 🥥 Delete	8	d107	kranti	nehru palce	5000	1995-07-02
	Ø Edit № Cop	y 🔘 Delete	9	d108	minu	powai	7000	1995-09-10
₾	_ Check a	ll With se	electe	ed: 🥜 [	Edit 🛂	Сору	Delete	Export

4). 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);

← <del></del> T→	▼ id	loanno	cname	bname	amount
☐ 🖉 Edit 👫 Copy 🔘 De	elete 1	12 01	anil	vrce	1000.00
☐ Ø Edit ♣ Copy ⊜ De	elete 2	12 06	mehul	ajni	5000.00
☐ 🖉 Edit 👫 Copy 🔘 De	elete 3	I3 11	sunil	dhrampeth	3000.00
☐ Ø Edit ♣ Copy ⊜ De	elete 4	13 21	madhuri	andheri	2000.00
☐ 🖉 Edit 👫 Copy 🔘 De	elete 5	13 71	pramod	virar	00.008
☐ 🖉 Edit 👫 Copy 🥥 De	elete 6	I4 81	kranti	nehru palace	3000.00

## Experiment No:2

1. SELECT \* FROM DEPOSIT;

## **OUTPUT:**

```
ysql> select * from DEPOSIT;
ACTNO | CNAME
                                        AMOUNT ADATE
                    BNAME
                                          1000.00
500.00
                                                      1995-03-01
         SUNIL
                                                      1996-01-04
D102
D104
                      KAROLBAGH
                                          3500.00
1200.00
                                                     1995-11-17
1995-12-17
         MEHUL
         MADHURI
                      CHANDNI
                                          3000.00
2000.00
         PRAMOD
                                                      1996-03-27
D196
         SANDIP
                      ANDHERI
                                                      1996-03-31
D107
         SHIVANI
                                          1000.00
                                                     1995-09-05
                                         5000.00 | 1995-07-05 |
7000.00 | 1995-08-01 |
         KRANTI
                      NEHRU PLACE 50
D108
         MINU
D109
rows in set (0.00 sec)
```

## 2. SELECT \* FROM BORROW;

## **OUTPUT:**

```
mysql> select * from BORROW;
 LOANNO | CNAME
                    BNAME
                                  AMOUNT
 L201
           ANIL
                     VRCE
                                    1000.00
 L206
           MEHUL
                     INCA
                                    5000.00
 L311
           SUNIL
                     DHARAMPETH
                                    3000.00
 L321
           MADHURI
                     ANDHERI
                                    2000.00
 L371
           PRAMOD
                     VIRAR
                                    8000.00
  L481
           KRANTI
                    | NEHRU PLACE | 3000.00
 rows in set (0.00 sec)
```

## 3. SELECT \* FROM CUSTOMER;

```
mysql> select * from CUSTOMER
->;

| CNAME | CITY |
| ANIL | CALCUTTA |
| KRANTI | BOMBAY |
| MADHURI | NAGPUR |
| MANDAR | PATNA |
| MEHUL | BARODO |
| NAREN | BOMBAY |
| PRAMOD | NAGPUR |
| SANDIP | SURAT |
| SHIVANI | BOMBAY |
| SINIL | DELHI |
| 10 rows in set (0.00 sec)
```

4. SELECT \* FROM BRANCH;

## **OUTPUT:**

```
mysql> select * from BRANCH;
 BNAME
 INCA
                NAGPUR
 ANDHERI
                BOMBAY
 CHANDNI
 DHARAMPETH
                NAGPUR
 KAROLBAGH
                DELHI
 MG-ROAD
                BANGALORE
 NEHRU-PALACE
 POWAI
                BOMBAY
 VRCE
               NAGPUR
 rows in set (0.00 sec)
```

5. SELECT ACTNO, AMOUNT FROM DEPOSIT;

# OUTPUT:

```
ysql> SELECT ACTNO,AMOUNT FROM DEPOSIT;
ACTNO | AMOUNT
D100
         1000.00
D101
         500.00
         3500.00
D102
D104
         1200.00
D105
D106
        3000.00
2000.00
         1000.00
D107
D108
         5000.00
D109
       7000.00
rows in set (0.00 sec)
```

6. SELECT CNAME, ACTNO FROM DEPOSIT;

```
| CAMME | ACTNO |
| CAMME | ACTNO |
| ANIL | D100 |
| SUNIL | D101 |
| MEHUL | D102 |
| MADHURI | D105 |
| SANDIP | D106 |
| SHIVANI | D107 |
| KRANTI | D108 |
| MINU | D109 |
| HINU | D109 |
```

7. SELECT CNAME FROM CUSTOMER;

## **OUTPUT:**

8. SELECT BNAME FROM BRANCH;

# OUTPUT:

```
mysql> SELECT BNAME FROM BRANCH;

| BNAME |
| AJNI |
| ANDHERI |
| CHANDNI |
| DHARAMPETH |
| KAROLBAGH |
| MG-ROAD |
| NEHRU-PALACE |
| POMAI |
| VRCE |

9 rows in set (0.00 sec)
```

9. SELECT CNAME FROM BORROW;

10. SELECT CNAME FROM CUSTOMER WHERE CITY='NAGPUR';

## **OUTPUT:**

```
mysql> SELECT CNAME FROM CUSTOMER WHERE CITY='NAGPUR';

| CNAME |

| MADHURI |
| PRANOD |

2 rows in set (0.00 sec)
```

11. SELECT CNAME FROM DEPOSIT WHERE AMOUNT > 4000;

#### **OUTPUT:**

```
mysql> SELECT (NAME FROM DEPOSIT WHERE AMOUNT > 4000;
+-----+
| CNAME |
+-----+
| KRANTI |
| MINU |
+-----+
2 rows in set (0.00 sec)
```

12. SELECT ADATE FROM DEPOSIT WHERE CNAME='ANIL';

## OUTPUT:

13. SELECT BNAME FROM BRANCH WHERE CITY='BOMBAY';

```
ysql> SELECT BNAME FROM BRANCH WHERE CITY='BOMBAY';
-----+
BNAME |
----+
ANDHERI |
POWAI |
-----+
rows in set (0.00 sec)
```

14. SELECT CNAME FROM DEPOSIT WHERE ACTNO='L205';

## **OUTPUT:**

15. SELECT CNAME FROM DEPOSIT WHERE BNAME='VRCE';

## **OUTPUT:**

```
mysql> SELECT CNAME FROM DEPOSIT WHERE BNAME='VRCE';
+-----+
| CNAME |
+-----+
| ANIL |
+-----+
1 row in set (0.00 sec)
```

16. SELECT BNAME FROM BRANCH WHERE CITY='DELHI';

17. SELECT CNAME FROM DEPOSIT WHERE ADATE='1995-12-17';

## **OUTPUT:**

18. SELECT ACTNO, AMOUNT FROM DEPOSIT WHERE ADATE >='1995-12-01' AND ADATE <='1996-05-01';

## **OUTPUT:**

19. SELECT CITY FROM BRANCH WHERE BNAME='KAROLBAGH';

## **OUTPUT:**

20. SELECT D.ACTNO,D.CNAME,D.BNAME,D.AMOUNT,B.LOANNO,B.AMOUNT FROM DEPOSIT D,BORROW B WHERE B.CNAME='ANIL' AND D.CNAME='ANIL';

```
mysql> SELECT D.ACTNO,D.CNAME,D.BNAME,D.AMOUNT,B.LOANNO,B.AMOUNT FROM DEPOSIT D,BORROW B WHERE D.CNAME='ANIL'AND B.CNAME='ANIL';

| ACTNO | CNAME | BNAME | AMOUNT | LOANNO | AMOUNT |

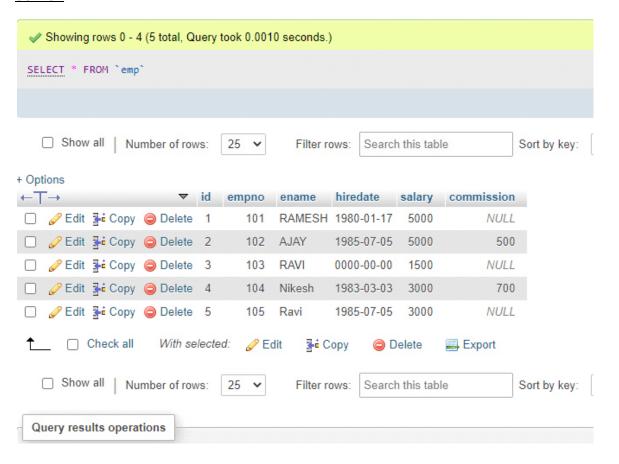
| D100 | ANIL | VRCE | 1000.00 | L201 | 1000.00 |

1 row in set (0.00 sec)
```

#### Experiment No:3

1. CREATE TABLE EMP(ID INTEGER, EMPNO INTEGER(4), ENAME CHAR(10), HIREDATE DATE, SALARY FLOAT, COMMISSION INTEGER(20), PRIMARY KAEY(EMPNO));

INSERT INTO EMP(ID,EMPNO,ENAME,HIREDATE, SALARY ,COMMISSION) VALUES(1,101,'RAMESH','1980-01-17',5000,NULL),(2,102,'AJAY','1985-07-05',5000,500),(3,103,'RAVI','1981-08-12',1500,NULL),(4,104,'Nikesh','1983-03-03',3000,700),(5,105,'Ravi','1985-07-05',3000,NULL);



# a. ALTER TABLE EMP ADD SAL INTEGER(7);

# OUTPUT:

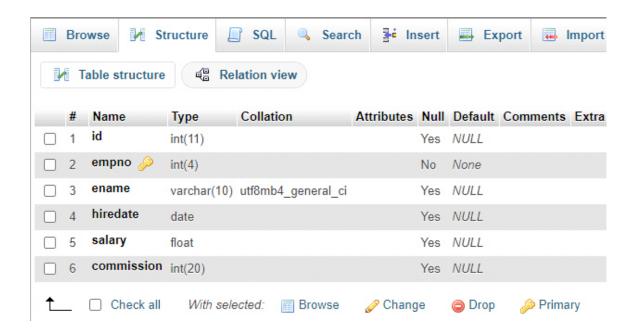
#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			Yes	NULL			Change
2	empno 🔑	int(4)			No	None			Change
3	ename	varchar(10)	utf8mb4_general_ci		Yes	NULL			⊘ Change
4	hiredate	date			Yes	NULL			Change
5	salary	float			Yes	NULL			⊘ Change
6	commission	int(20)			Yes	NULL			Change
7	sal	int(7)			Yes	NULL			Change

# b. ALTER TABLE EMP DROP SAL;

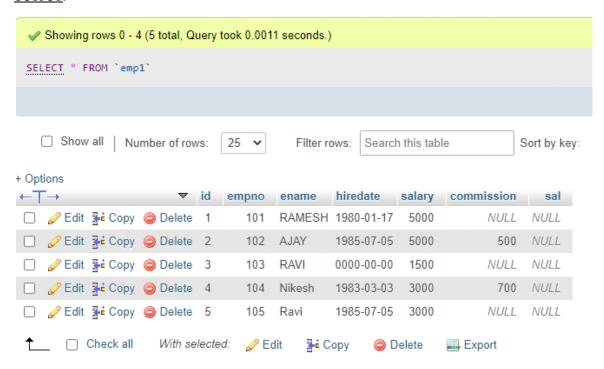
# <u>OUTPUT</u>:

#	Name	Туре	Collation	Attributes	Null	Default	Comments
1	id	int(11)			Yes	NULL	
2	empno 🔑	int(4)			No	None	
3	ename	varchar(10)	utf8mb4_general_ci		Yes	NULL	
4	hiredate	date			Yes	NULL	
5	salary	float			Yes	NULL	
6	commission	int(20)			Yes	NULL	

c. ALTER TABLE EMP MODIFY ENAME VARCHAR(10);



## d. ALTER TABLE EMP RENAME TO EMP1;



✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0012 seconds.)
SELECT * FROM `emp1`
id empno ename hiredate salary commission sal
Query results operations
Create view
Bookmark this SQL query
Label: Let every user access this bookmark