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');

OUTPUT:

			id	bname	city
Edit	Copy	Delete	2	ajni	nagpur
Edit	Copy	Delete	7	andheri	bombay
Edit	Copy	Delete	4	chandni	delhi
Edit	Copy	Delete	5	dharampeth	nagpur
Edit	Copy	Delete	3	karolbagh	delhi
Edit	Copy	Delete	6	mg road	banglore
Edit	Copy	Delete	8	nehru palace	delhi
Edit	Copy	Delete	9	powai	bombay
Edit	Copy	Delete	1	vrce	nagpur

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:

			id	cname	city
Edit	Copy	Delete	1	anil	culcutta
Edit	Copy	Delete	9	kranti	bombay
Edit	Copy	Delete	5	madhuri	nagpur
Edit	Copy	Delete	4	mandar	patna
Edit	Copy	Delete	3	mehul	baroda
Edit	Copy	Delete	10	naren	bombay
Edit	Copy	Delete	6	pramod	nagpur
Edit	Copy	Delete	7	sandip	surat
Edit	Copy	Delete	8	shivani	bombay
Edit	Copy	Delete	2	sunil	delhi

---

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:

	id	actno	cname	bname	amount	adate
Edit Copy Delete	1	d100	anil	vrce	1000	1995-03-01
Edit Copy Delete	2	d101	sunil	anjai	500	1996-01-04
Edit Copy Delete	3	d102	mehul	karolbagh	3500	1995-11-16
Edit Copy Delete	4	d103	madhuri	chandni	1200	1995-12-17
Edit Copy Delete	5	d104	pramod	mg road	3000	1996-03-27
Edit Copy Delete	6	d105	sandip	andheri	2000	1996-01-21
Edit Copy Delete	7	d106	shivani	virar	1000	1995-10-05
Edit Copy Delete	8	d107	kranti	nehru palce	5000	1995-07-02
Edit Copy Delete	9	d108	minu	powai	7000	1995-09-10

Check all *With selected:* Edit Copy 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);

OUTPUT:

	id	loanno	cname	bname	amount
Edit Copy Delete	1	l2 01	anil	vrce	1000.00
Edit Copy Delete	2	l2 06	mehul	ajni	5000.00
Edit Copy Delete	3	l3 11	sunil	dhrampeth	3000.00
Edit Copy Delete	4	l3 21	madhuri	andheri	2000.00
Edit Copy Delete	5	l3 71	pramod	virar	8000.00
Edit Copy Delete	6	l4 81	kranti	nehru palace	3000.00

Experiment No:2

1. SELECT * FROM DEPOSIT;

OUTPUT:

```
mysql> select * from DEPOSIT;
+-------+----------+----------------+---------+------------+
| ACTNO | CNAME    | BNAME          | AMOUNT  | ADATE      |
+-------+----------+----------------+---------+------------+
| D100  | ANIL     | VRCE           | 1000.00 | 1995-03-01 |
| D101  | SUNIL    | ANJNI          |  500.00 | 1996-01-04 |
| D102  | MEHUL    | KAROLBAGH      | 3500.00 | 1995-11-17 |
| D104  |  MADHURI | CHANDNI        | 1200.00 | 1995 12 17 |
| D105  | PRAMOD   | MG ROAD        | 3000.00 | 1996-03-27 |
| D106  | SANDIP   | ANDHERI        | 2000.00 | 1996-03-31 |
| D107  | SHIVANI  | VIRAR          | 1000.00 | 1995-09-05 |
| D108  | KRANTI   | NEHRU PLACE 50 | 5000.00 | 1995-07-05 |
| D109  |  MINU    | WAI            | 7000.00 | 1995-08-01 |
+-------+----------+----------------+---------+------------+
9 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    | AJNI         | 5000.00  |
| L311    | SUNIL    | DHARAMPETH   | 3000.00  |
| L321    | MADHURI  | ANDHERI      | 2000.00  |
| L371    | PRAMOD   | VIRAR        | 8000.00  |
| L481    | KRANTI   | NEHRU PLACE  | 3000.00  |
+---------+----------+--------------+----------+
6 rows in set (0.00 sec)
```

3. SELECT * FROM CUSTOMER;

OUTPUT:

```
mysql> select * from CUSTOMER
    -> ;
+---------+----------+
| CNAME   | CITY     |
+---------+----------+
| ANIL    | CALCUTTA |
| KRANTI  | BOMBAY   |
| MADHURI | NAGPUR   |
| MANDAR  | PATNA    |
| MEHUL   | BARODA   |
| NAREN   | BOMBAY   |
| PRAMOD  | NAGPUR   |
| SANDIP  | SURAT    |
| SHIVANI | BOMBAY   |
| SUNIL   | DELHI    |
+---------+----------+
10 rows in set (0.00 sec)
```

4. SELECT * FROM BRANCH;

OUTPUT:

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

5. SELECT ACTNO,AMOUNT FROM DEPOSIT;

OUTPUT:

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

6. SELECT CNAME,ACTNO FROM DEPOSIT;

OUTPUT:

```
mysql> SELECT CNAME,ACTNO FROM DEPOSIT;
+----------+-------+
| CNAME    | ACTNO |
+----------+-------+
| ANIL     | D100  |
| SUNIL    | D101  |
| MEHUL    | D102  |
|  MADHURI | D104  |
| PRAMOD   | D105  |
| SANDIP   | D106  |
| SHIVANI  | D107  |
| KRANTI   | D108  |
|  MINU    | D109  |
+----------+-------+
9 rows in set (0.00 sec)
```

7. SELECT CNAME FROM CUSTOMER;

OUTPUT:

```
mysql> SELECT CNAME FROM CUSTOMER;
+---------+
| CNAME   |
+---------+
| ANIL    |
| KRANTI  |
| MADHURI |
| MANDAR  |
| MEHUL   |
| NAREN   |
| PRAMOD  |
| SANDIP  |
| SHIVANI |
| SUNIL   |
+---------+
10 rows in set (0.00 sec)
```

8. SELECT BNAME FROM BRANCH;

OUTPUT:

```
mysql> SELECT BNAME FROM BRANCH;
+--------------+
| BNAME        |
+--------------+
| AJNI         |
| ANDHERI      |
| CHANDNI      |
| DHARAMPETH   |
| KAROLBAGH    |
| MG-ROAD      |
| NEHRU-PALACE |
| POWAI        |
| VRCE         |
+--------------+
9 rows in set (0.00 sec)
```

9. SELECT CNAME FROM BORROW;

OUTPUT:

```
mysql> SELECT CNAME FROM BORROW;
+----------+
| CNAME    |
+----------+
| ANIL     |
| MEHUL    |
| SUNIL    |
| MADHURI  |
| PRAMOD   |
| KRANTI   |
+----------+
6 rows in set (0.00 sec)
```

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

OUTPUT:

```
mysql> SELECT CNAME FROM CUSTOMER WHERE CITY='NAGPUR';
+---------+
| CNAME   |
+---------+
| MADHURI |
| PRAMOD  |
+---------+
2 rows in set (0.00 sec)
```

11. SELECT CNAME FROM DEPOSIT WHERE AMOUNT > 4000;

OUTPUT:

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

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

OUTPUT:

```
mysql> SELECT ADATE FROM DEPOSIT WHERE CNAME='ANIL';
+------------+
| ADATE      |
+------------+
| 1995-03-01 |
+------------+
1 row in set (0.00 sec)
```

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

OUTPUT:

```
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:

```
mysql> SELECT CNAME FROM BORROW WHERE LOANNO='L201';
+-------+
| CNAME |
+-------+
| ANIL  |
+-------+
1 row in set (0.01 sec)
```

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';

OUTPUT:

```
mysql> SELECT BNAME FROM BRANCH WHERE CITY='DELHI';
+---------------+
| BNAME         |
+---------------+
| CHANDNI       |
| KAROLBAGH     |
| NEHRU-PALACE  |
+---------------+
3 rows in set (0.00 sec)
```

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

OUTPUT:

```
mysql> SELECT CNAME FROM DEPOSIT WHERE ADATE='1995-12-17';
+----------+
| CNAME    |
+----------+
|  MADHURI |
+----------+
1 row in set (0.00 sec)

mysql>
```

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

OUTPUT:

```
mysql> SELECT ACTNO,AMOUNT FROM DEPOSIT WHERE ADATE >='1995-12-01' AND ADATE<='1996-05-01';
+-------+---------+
| ACTNO | AMOUNT  |
+-------+---------+
| D101  |  500.00 |
| D104  | 1200.00 |
| D105  | 3000.00 |
| D106  | 2000.00 |
+-------+---------+
4 rows in set (0.00 sec)
```

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

OUTPUT:

```
mysql> SELECT CITY FROM BRANCH WHERE BNAME='KAROLBAGH';
+-------+
| CITY  |
+-------+
| DELHI |
+-------+
1 row in set (0.00 sec)
```

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';

OUTPUT:

```
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);

OUTPUT:

Showing rows 0 - 4 (5 total, Query took 0.0010 seconds.)

```
SELECT * FROM `emp`
```

Show all | Number of rows: 25 Filter rows: Search this table Sort by key:

+ Options

	id	empno	ename	hiredate	salary	commission
Edit Copy Delete	1	101	RAMESH	1980-01-17	5000	NULL
Edit Copy Delete	2	102	AJAY	1985-07-05	5000	500
Edit Copy Delete	3	103	RAVI	0000-00-00	1500	NULL
Edit Copy Delete	4	104	Nikesh	1983-03-03	3000	700
Edit Copy Delete	5	105	Ravi	1985-07-05	3000	NULL

Check all *With selected:* Edit Copy Delete Export

Show all | Number of rows: 25 Filter rows: Search this table Sort by key:

Query results operations

2.

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

OUTPUT:

#	Name	Type	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;

OUTPUT:

#	Name	Type	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);

OUTPUT:

Browse | Structure | SQL | Search | Insert | Export | Import

Table structure | Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
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		

Check all *With selected:* Browse Change Drop Primary

d. ALTER TABLE EMP RENAME TO EMP1;

<u>OUTPUT</u>:

Showing rows 0 - 4 (5 total, Query took 0.0011 seconds.)

```
SELECT * FROM `emp1`
```

Show all | Number of rows: 25 Filter rows: Search this table Sort by key:

+ Options

	id	empno	ename	hiredate	salary	commission	sal
Edit Copy Delete	1	101	RAMESH	1980-01-17	5000	NULL	NULL
Edit Copy Delete	2	102	AJAY	1985-07-05	5000	500	NULL
Edit Copy Delete	3	103	RAVI	0000-00-00	1500	NULL	NULL
Edit Copy Delete	4	104	Nikesh	1983-03-03	3000	700	NULL
Edit Copy Delete	5	105	Ravi	1985-07-05	3000	NULL	NULL

Check all *With selected:* Edit Copy Delete Export

e. TRUNCATE TABLE EMP1;

OUTPUT:

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