Neha Alex

LAB-1

RMCA-B

ROLL NO:10

EXPIRIMENT: 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) PRIMARY KEY CHECK (LOANNO LIKE 'L%') ,CNAME VARCHAR(15),BNAME VARCHAR(20) ,AMOUNT FLOAT(8,2) NOT NULL CHECK (AMOUNT>0) , FOREIGN KEY (CNAME) REFERENCES CUSTOMER(CNAME), FOREIGN KEY (BNAME) REFERENCES BRANCH(BNAME));
- ♣ CREATE TABLE DEPOSIT (ACTNO VARCHAR(5) CHECK (ACTNO LIKE 'D%') PRIMARY
 KEY,CNAME VARCHAR(15),BNAME VARCHAR(20) ,AMOUNT FLOAT(8,2) CHECK
 (AMOUNT>0) NOT NULL, FOREIGN KEY (CNAME) REFERENCES CUSTOMER(CNAME),
 FOREIGN KEY (BNAME) REFERENCES BRANCH(BNAME));
- 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');

```
INSERT INTO DEPOSIT VALUES ('D100','ANIL','VRCE',1000.00,'1995-03-01');
INSERT INTO DEPOSIT VALUES ('D101', 'SUNIL', 'ANJNI', 500.00, '1996-01-04');
INSERT INTO DEPOSIT VALUES ('D102', 'MEHUL', 'KAROLBAGH', 3500.00, '1995-11-17');
INSERT INTO DEPOSIT VALUES ('D104',' MADHURI','CHANDNI',1200.00,'1995-12-17');
INSERT INTO DEPOSIT VALUES ('D105', 'PRAMOD', 'MG ROAD', 3000.00, '1996-03-27');
INSERT INTO DEPOSIT VALUES ('D106', 'SANDIP', 'ANDHERI', 2000.00, '1996-03-31');
INSERT INTO DEPOSIT VALUES ('D107', 'SHIVANI', 'VIRAR', 1000.00, '1995-09-05');
♣ INSERT INTO DEPOSIT VALUES ('D108','KRANTI','NEHRU PLACE 50',5000.00,'1995-07-
  05');
INSERT INTO DEPOSIT VALUES ('D109',' MINU','WAI',7000.00,'1995-08-01');
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');
                                          'ANIL','VRCE',' 1000.00');

♣ INSERT INTO BORROW VALUES ('L201',
INSERT INTO BORROW VALUES ('L206','
                                          MEHUL','AJNI',' 5000.00');

♣ INSERT INTO BORROW VALUES ('L311','SUNIL','

                                                DHARAMPETH', '3000.00');
```

♣ INSERT INTO BORROW VALUES ('L481',' KRANTI','NEHRU PLACE','3000.00');

MADHURI', 'ANDHERI', '2000.00');

PRAMOD', 'VIRAR', '8000.00');

♣ INSERT INTO BORROW VALUES ('L321','

INSERT INTO BORROW VALUES ('L371','

EXPERIMENT:2

SELECT * FROM DEPOSIT;

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

2. SELECT * FROM BORROW;

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

3. SELECT * FROM CUSTOMER;

```
nysql> select * from CUSTOMER
 CNAME
         CITY
 ANIL
          CALCUTTA
 KRANTI
           BOMBAY
           NAGPUR
 MADHURI
 MANDAR
           PATNA
 MEHUI
           BARODA
           BOMBAY
 NARFN
 PRAMOD
           NAGPUR
 SANDTP
           SURAT
 SHIVANI
           BOMBAY
 SUNIL
10 rows in set (0.00 sec)
```

4. SELECT * FROM BRANCH;

```
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;

```
mysql> SELECT ACTNO, AMOUNT FROM DEPOSIT;
 ACTNO | AMOUNT |
 D100
         1000.00
 D101
          500.00
          3500.00
 D102
 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;

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

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;
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';
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';
ysql> SELECT BNAME FROM BRANCH WHERE CITY='BOMBAY';
 BNAME
 ANDHERI
 POWAI
 rows in set (0.00 sec)
  14.SELECT CNAME FROM BORROW WHERE LOANNO='L201';
mysql> SELECT CNAME FROM BORROW WHERE LOANNO='L201';
 CNAME
 ANIL
1 row in set (0.01 sec)
```

```
CNAME
 ANIL
1 row in set (0.00 sec)
  16.SELECT BNAME FROM BRANCH WHERE CITY='DELHI';
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';
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';
nysql> SELECT ACTNO,AMOUNT FROM DEPOSIT WHERE ADATE >='1995-12-01' AND ADATE<='1996-05-01';
 ACTNO | AMOUNT |
 D101
      500.00
 D104
     1200.00
     3000.00
 D105
 D106
     2000.00
 rows in set (0.00 sec)
```

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

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

```
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';

```
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 |

| row in set (0.00 sec)
```

EXPERIMENT:3

CREATE TABLE EMP(EMPNO NUMERIC(4), ENAME CHAR(10), HIREDATE DATE, SALARY FLOAT, COMM INTEGER(20), PRIMARY KEY(EMPNO));

- ♣ INSERT INTO EMP VALUES(101, "RAMESH", "1980-01-17", 5000, NULL);
- ♣ INSERT INTO EMP VALUES(102,"AJAY","1985-07-05",5000,500);
- INSERT INTO EMP VALUES(103,"RAVI","1981-08-12",1500,NULL);
- ♣ INSERT INTO EMP VALUES(104,"NIKESH","1983-03-03",3000,700);
- INSERT INTO EMP VALUES(105,"RAVI","1985-07-05",3000,NULL);

```
nysql> select * from emp;
 EMPNO | ENAME
               HIREDATE
                             SALARY
                                       COMM
   101
        RAMESH
                  1980-01-17
                                 5000
                                        NULL
   102
        AJAY
                  1985-07-05
                                 5000
                                         500
   103
        RAVI
                  1981-08-12
                                 1500
                                        NULL
        NIKESH
   104
                  1983-03-03
                                 3000
                                         700
   105
        RAVI
                 1985-07-05
                                        NULL
                                 3000
 rows in set (0.02 sec)
```

ALTER TABLE EMP ADD SAL INTEGER(7);

```
mysql> ALTER TABLE EMP ADD SAL INTEGER(7);
Query OK, 0 rows affected, 1 warning (0.02 sec)
Records: 0 Duplicates: 0 Warnings:
mysql> select * from emp;
 EMPNO | ENAME | HIREDATE | SALARY | COMM | SAL
                  1980-01-17
                  1985-07-05
                                 5000
                                         500
   103
         RAVI
                  1981-08-12
                                 1500
                                               NULL
   104
         NTKESH
                  1983-03-03
                                  3000
                                         700
                                               NULL
                  1985-07-05
                                        NULL
   105
         RAVT
                                 3000
                                               NULL
 rows in set (0.00 sec)
```

ALTER TABLE EMP DROP SAL;

```
mysql> ALTER TABLE EMP DROP SAL;
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> select * from emp;
 EMPNO | ENAME | HIREDATE
                              | SALARY | COMM |
         RAMESH
                  1980-01-17
                                 5000
                                         NULL
   101
         AJAY
                  1985-07-05
                                 5000
   102
                                         500
   103
         RAVI
                  1981-08-12
                                 1500
                                         NULL
   104
         NIKESH
                  1983-03-03
                                  3000
                                          700
         RAVI
                  1985-07-05
                                  3000 I
                                        NULL
 rows in set (0.00 sec)
```

ALTER TABLE EMP MODIFY ENAME VARCHAR(10);

```
mysql> ALTER TABLE EMP MODIFY ENAME VARCHAR(10);
Query OK, 5 rows affected (0.05 sec)
Records: 5 Duplicates: 0 Warnings: 0
mysql> select * from emp;
 EMPNO | ENAME | HIREDATE | SALARY | COMM |
    101
           RAMESH | 1980-01-17
                                        5000
                                                 500
          RAVI
                      1981-08-12
    104 | NIKESH | 1983-03-03
105 | RAVI | 1985-07-05
                                        3000
                                                 700
                                        3000
                                                NULL
 rows in set (0.00 sec)
```

ALTER TABLE EMP RENAME TO EMP1;

```
mysql> ALTER TABLE EMP RENAME TO EMP1;
Query OK, 0 rows affected (0.02 sec)
mysql> select * from emp;
ERROR 1146 (42SO2): Table 'dbms.emp' doesn't exist
mysql> select * from emp1;
 EMPNO | ENAME | HIREDATE | SALARY | COMM |
           RAMESH
                      1980-01-17
                                        5000
          AJAY
RAVI
                      1985-07-05
1981-08-12
                                        5000
                                                 500
                                        1500
                                                NULL
    103
          NIKESH
                      1983-03-03
                                        3000
                                                 700
    105 | RAVI
                      1985-07-05
5 rows in set (0.00 sec)
```

TRUNCATE TABLE EMP1;

```
mysql> TRUNCATE TABLE EMP1;
Query OK, 0 rows affected (0.03 sec)
mysql> select * from emp1;
Empty set (0.00 sec)
mysql>
```