ADVANCED DATABASE MANAGEMENT LAB

Name: Abin Sunil

Roll No: 1

Batch: 2021-23

Date: 21-03-2022

Experiment No.: 1

AIM

To study various DDL commands - CREATE

Question

Create the following Tables

Table 1: 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

Table 2: BRANCH

BNAME VARCHAR2(20) PRIMARY KEY

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

Table 3: CUSTOMER

CNAME VARCHAR2(15) PRIMARY KEY
CITY VARCHAR2(20) NOT NULL ,

Table 4: 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

Commands

CREATE TABLE customer2 (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 deposit (ACTNO VARCHAR(5) CHECK (ACTNO LIKE 'D%') PRIMARY KEY ,CNAME VARCHAR(15) REFERENCE customer2(CNAME) ,BNAME VARCHAR(20) REFERENCES branch(BNAME),AMOUNT FLOAT(8) CHECK (AMOUNT>0) NOT NULL, ADATE VARCHAR(20));

CREATE TABLE borrow (LOANNO VARCHAR(8) CHECK (LOANNO LIKE 'L%') PRIMARY KEY,CNAME VARCHAR(15) REFERENCES CUSTOMER2(CNAME) ,BNAME VARCHAR(20) REFERENCES BRANCH(BNAME),AMOUNT FLOAT(8) CHECK (AMOUNT>0) NOT NULL);

INSERT INTO branch VALUES('VRCE','NAGPUR');

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

INSERT INTO branch VALUES('KAROLBAGH','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');

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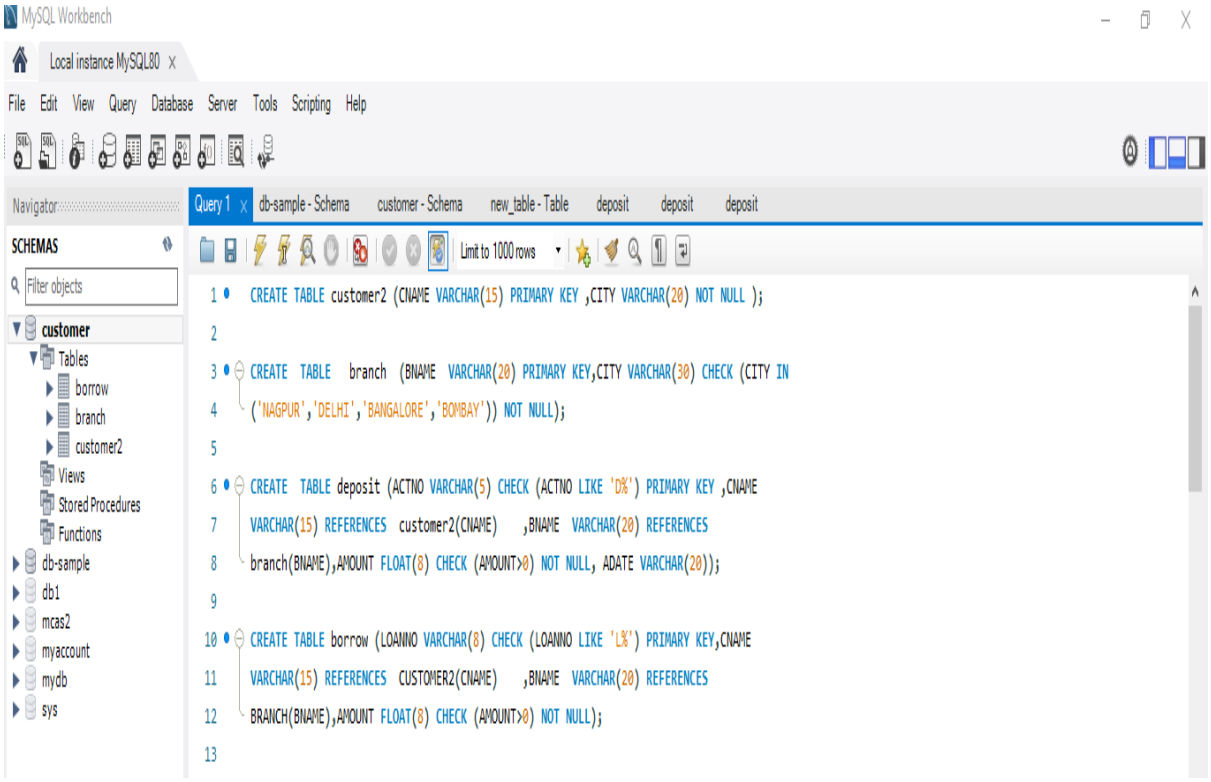
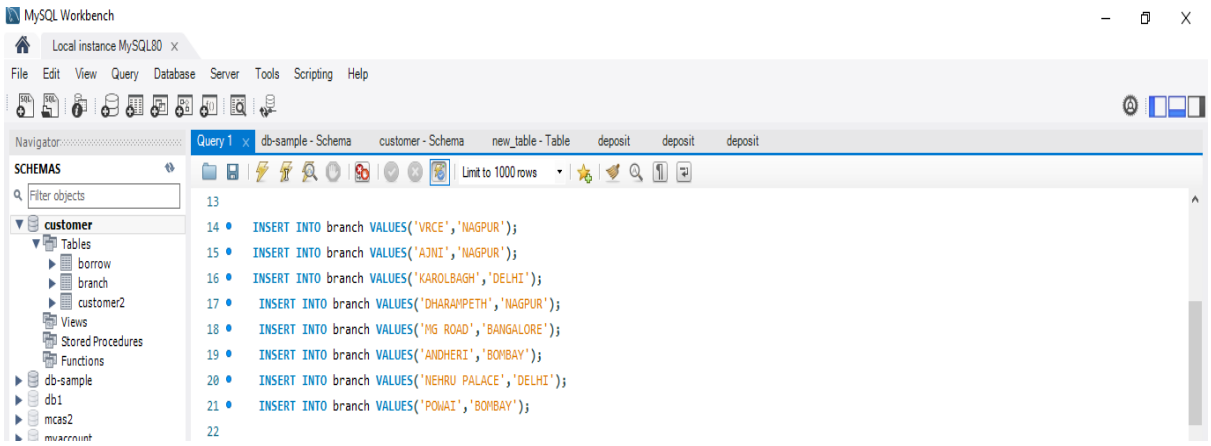
INSERT INTO CUSTOMER2 VALUES('ANIL','CALCUTTA');
INSERT INTO CUSTOMER2 VALUES('SUNIL','DELHI');
INSERT INTO CUSTOMER2 VALUES('MEHUL','BARODA');
INSERT INTO CUSTOMER2 VALUES('MANDAR','PATNA');
INSERT INTO CUSTOMER2 VALUES('MADHURI','NAGPUR');
INSERT INTO CUSTOMER2 VALUES('PRAMOD', 'NAGPUR');
INSERT INTO CUSTOMER2 VALUES('SANDIP','SURAT');
INSERT INTO CUSTOMER2 VALUES('SHIVANI','BOMBAY');
INSERT INTO CUSTOMER2 VALUES('KRANTI','BOMBAY');
INSERT INTO CUSTOMER2 VALUES('NAREN','BOMBAY');

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('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');

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


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
customer
Tables
borrow
branch
customer2
Views
Stored Procedures
Functions
db-sample
db1
mcas2
myaccount
mydb
sys
Query 1
db-sample - Schema
customer - Schema
new_table - Table
deposit
deposit
deposit
Limit to 1000 rows
1 CREATE TABLE customer2 (CNAME VARCHAR(15) PRIMARY KEY ,CITY VARCHAR(20) NOT NULL);
2
3 CREATE TABLE branch (BNAME VARCHAR(20) PRIMARY KEY,CITY VARCHAR(30) CHECK (CITY IN
4 ('NAGPUR','DELHI','BANGALORE','BOMBAY')) NOT NULL);
5
6 CREATE TABLE deposit (ACTNO VARCHAR(5) CHECK (ACTNO LIKE 'D%') PRIMARY KEY ,CNAME
7 VARCHAR(15) REFERENCES customer2(CNAME) ,BNAME VARCHAR(20) REFERENCES
8 branch(BNAME),AMOUNT FLOAT(8) CHECK (AMOUNT>0) NOT NULL, ADATE VARCHAR(20));
9
10 CREATE TABLE borrow (LOANNO VARCHAR(8) CHECK (LOANNO LIKE 'L%') PRIMARY KEY,CNAME
11 VARCHAR(15) REFERENCES CUSTOMER2(CNAME) ,BNAME VARCHAR(20) REFERENCES
12 BRANCH(BNAME),AMOUNT FLOAT(8) CHECK (AMOUNT>0) NOT NULL);
13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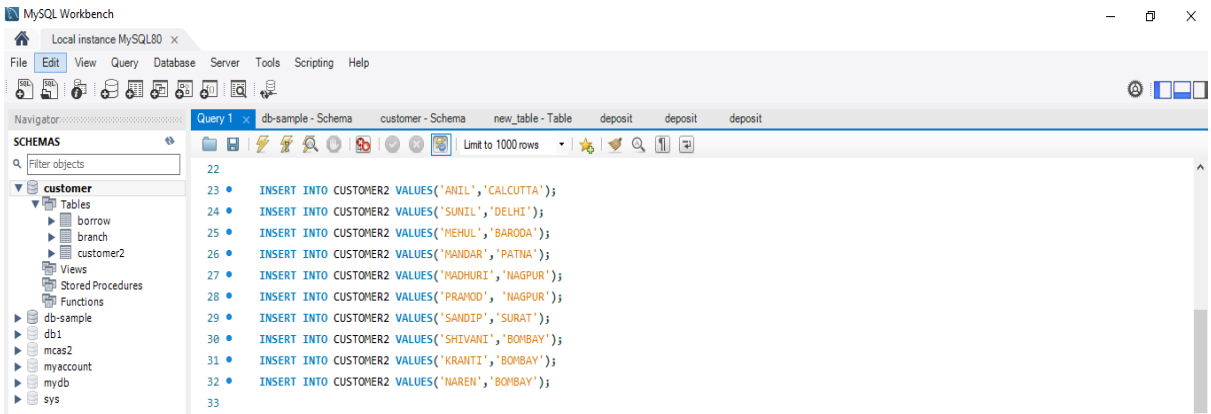
db1
mcas2
Query 1
db-sample - Schema
customer - Schema
new_table - Table
deposit
deposit
deposit
Limit to 1000 rows
13
14 INSERT INTO branch VALUES('VRCE','NAGPUR');
15 INSERT INTO branch VALUES('AJNI','NAGPUR');
16 INSERT INTO branch VALUES('KAROLBAGH','DELHI');
17 INSERT INTO branch VALUES('DHARAMPETH','NAGPUR');
18 INSERT INTO branch VALUES('MG ROAD','BANGALORE');
19 INSERT INTO branch VALUES('ANDHERI','BOMBAY');
20 INSERT INTO branch VALUES('NEHRU PALACE','DELHI');
21 INSERT INTO branch VALUES('POWAI','BOMBAY');
22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mydb
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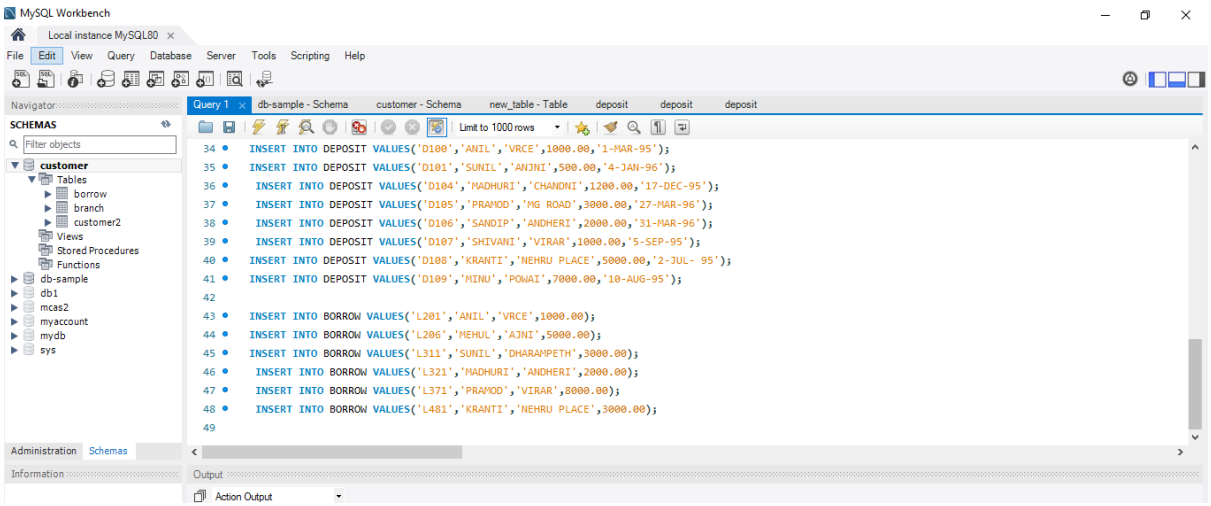
Query 1
db-sample - Schema
customer - Schema
new_table - Table
deposit
deposit
deposit
Limit to 1000 rows
22
23 INSERT INTO CUSTOMER2 VALUES('ANIL','CALCUTTA');
24 INSERT INTO CUSTOMER2 VALUES('SUNIL','DELHI');
25 INSERT INTO CUSTOMER2 VALUES('MEHUL','BARODA');
26 INSERT INTO CUSTOMER2 VALUES('MANDAR','PATNA');
27 INSERT INTO CUSTOMER2 VALUES('MADHURI','NAGPUR');
28 INSERT INTO CUSTOMER2 VALUES('PRAMOD', 'NAGPUR');
29 INSERT INTO CUSTOMER2 VALUES('SANDIP','SURAT');
30 INSERT INTO CUSTOMER2 VALUES('SHIVANI','BOMBAY');
31 INSERT INTO CUSTOMER2 VALUES('KRANTI','BOMBAY');
32 INSERT INTO CUSTOMER2 VALUES('NAREN','BOMBAY');
33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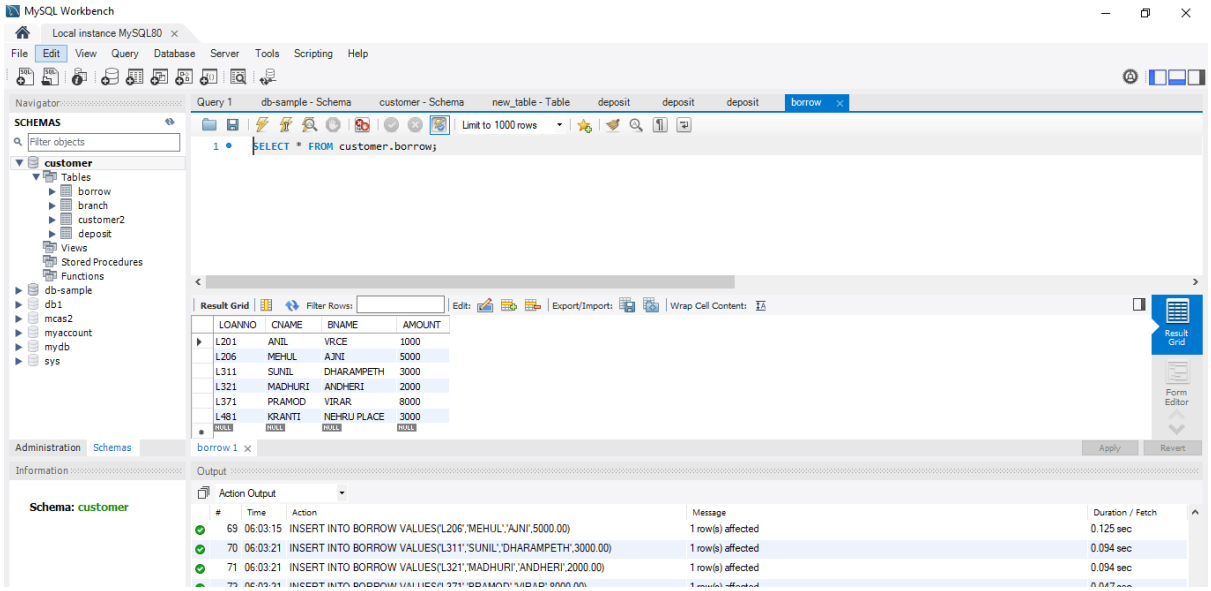
Stored Procedures
Functions
db-sample
db1
mcas2
myaccount
mydb
sys
Administration Schemas
Information
Query 1 db-sample - Schema customer - Schema new_table - Table deposit deposit deposit
Limit to 1000 rows
34 INSERT INTO DEPOSIT VALUES('D100','ANIL','VRCE',1000.00,'1-MAR-95');
35 INSERT INTO DEPOSIT VALUES('D101','SUNIL','ANJNI',500.00,'4-JAN-96');
36 INSERT INTO DEPOSIT VALUES('D104','MADHURI','CHANDNI',1200.00,'17-DEC-95');
37 INSERT INTO DEPOSIT VALUES('D105','PRAMOD','MG ROAD',3000.00,'27-MAR-96');
38 INSERT INTO DEPOSIT VALUES('D106','SANDIP','ANDHERI',2000.00,'31-MAR-96');
39 INSERT INTO DEPOSIT VALUES('D107','SHIVANI','VIRAR',1000.00,'5-SEP-95');
40 INSERT INTO DEPOSIT VALUES('D108','KRANTI','NEHRU PLACE',5000.00,'2-JUL- 95');
41 INSERT INTO DEPOSIT VALUES('D109','MINU','POWAI',7000.00,'10-AUG-95');
42
43 INSERT INTO BORROW VALUES('L201','ANIL','VRCE',1000.00);
44 INSERT INTO BORROW VALUES('L206','MEHUL','AJNI',5000.00);
45 INSERT INTO BORROW VALUES('L311','SUNIL','DHARAMPETH',3000.00);
46 INSERT INTO BORROW VALUES('L321','MADHURI','ANDHERI',2000.00);
47 INSERT INTO BORROW VALUES('L371','PRAMOD','VIRAR',8000.00);
48 INSERT INTO BORROW VALUES('L481','KRANTI','NEHRU PLACE',3000.00);
49
Output
Action Output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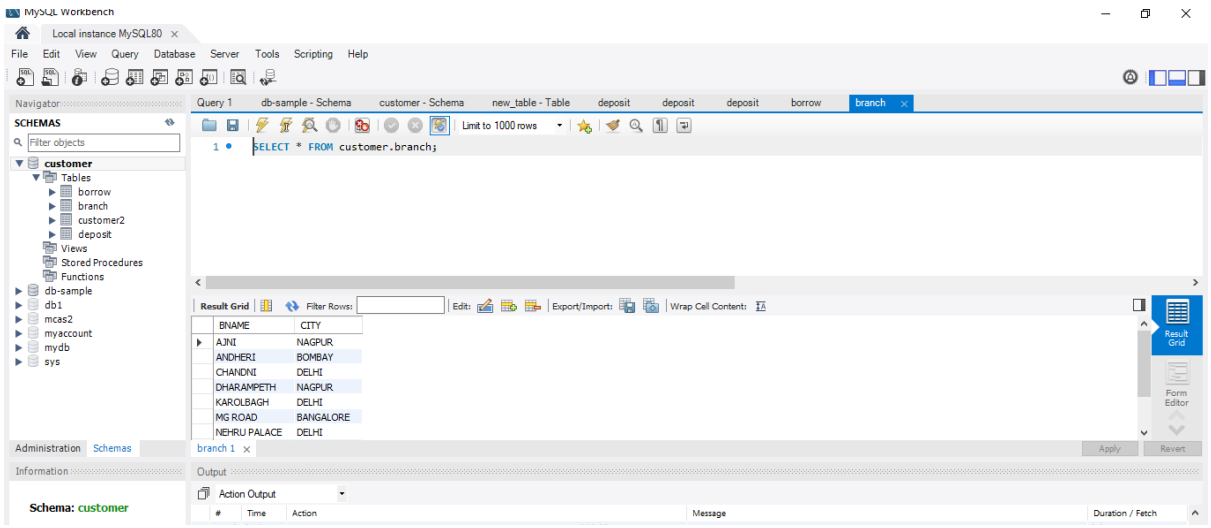
Stored Procedures
Functions
db-sample
db1
mcas2
myaccount
mydb
sys
Administration Schemas
Information
Schema: customer
Query 1 db-sample - Schema customer - Schema new_table - Table deposit deposit deposit borrow
Limit to 1000 rows
1 SELECT * FROM customer.borrow;
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
LOANNO CNAME BNAME AMOUNT
L201 ANIL VRCE 1000
L206 MEHUL AJNI 5000
L311 SUNIL DHARAMPETH 3000
L321 MADHURI ANDHERI 2000
L371 PRAMOD VIRAR 8000
L481 KRANTI NEHRU PLACE 3000
Result Grid
Form Editor
Apply Revert
borrow 1
Output
Action Output
Time Action Message Duration / Fetch
69 06:03:15 INSERT INTO BORROW VALUES('L206','MEHUL','AJNI',5000.00) 1 row(s) affected 0.125 sec
70 06:03:21 INSERT INTO BORROW VALUES('L311','SUNIL','DHARAMPETH',3000.00) 1 row(s) affected 0.094 sec
71 06:03:21 INSERT INTO BORROW VALUES('L321','MADHURI','ANDHERI',2000.00) 1 row(s) affected 0.094 sec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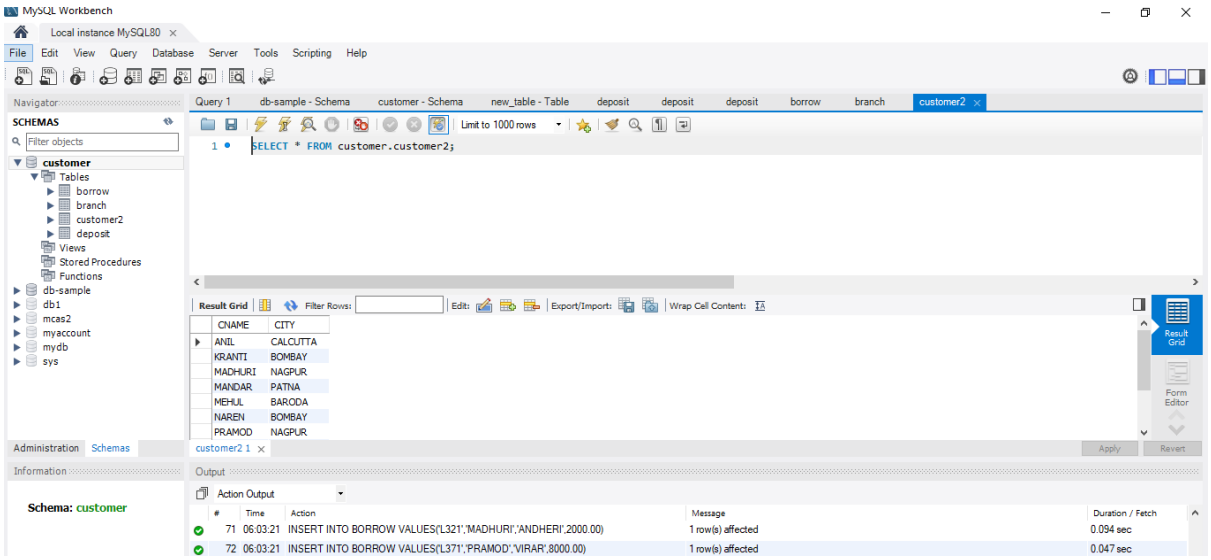
sys
Query 1 db-sample - Schema customer - Schema new_table - Table deposit deposit deposit borrow branch
SELECT * FROM customer.branch;
Result Grid
BNAME CITY
AJNI NAGPUR
ANDHERI BOMBAY
CHANDNI DELHI
DHARAMPETH NAGPUR
KAROLBAGH DELHI
MG ROAD BANGALORE
NEHRU PALACE DELHI
Schema: customer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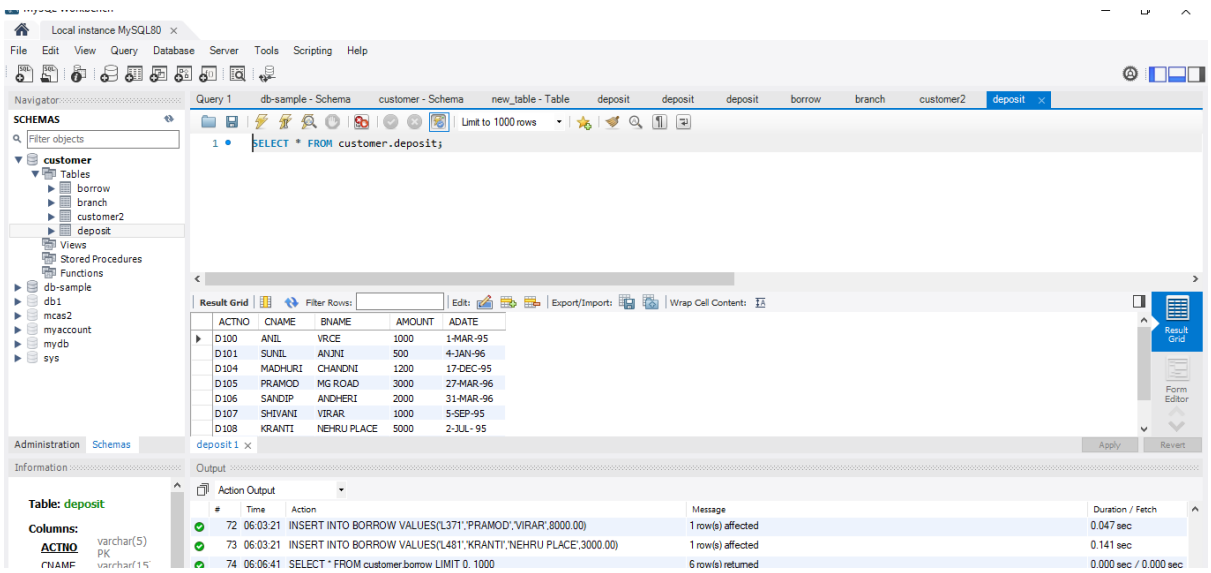
db-sample
db1
mcas2
myaccount
mydb
sys
Query 1 db-sample - Schema customer - Schema new_table - Table deposit deposit deposit borrow branch customer2
SELECT * FROM customer.customer2;
Result Grid
CNAME CITY
ANIL CALCUTTA
KRANTI BOMBAY
MADHURI NAGPUR
MANDAR PATNA
MEHUL BARODA
NAREN BOMBAY
PRAMOD NAGPUR
Action Output
71 06:03:21 INSERT INTO BORROW VALUES('L321','MADHURI','ANDHERI',2000.00) 1 row(s) affected 0.094 sec
72 06:03:21 INSERT INTO BORROW VALUES('L371','PRAMOD','VIRAR',8000.00) 1 row(s) affected 0.047 sec
Schema: customer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db-sample
db1
mcas2
myaccount
mydb
sys
Query 1 db-sample - Schema customer - Schema new_table - Table deposit deposit deposit borrow branch customer2 deposit
SELECT * FROM customer.deposit;
Result Grid
ACTNO CNAME BNAME AMOUNT ADATE
D100 ANIL VRCE 1000 1-MAR-95
D101 SUNIL ANJNI 500 4-JAN-96
D104 MADHURI CHANDNI 1200 17-DEC-95
D105 PRAMOD MG ROAD 3000 27-MAR-96
D106 SANDIP ANDHERI 2000 31-MAR-96
D107 SHIVANI VIRAR 1000 5-SEP-95
D108 KRANTI NEHRU PLACE 5000 2-JUL-95
Action Output
72 06:03:21 INSERT INTO BORROW VALUES('L371','PRAMOD','VIRAR',8000.00) 1 row(s) affected 0.047 sec
73 06:03:21 INSERT INTO BORROW VALUES('L481','KRANTI','NEHRU PLACE',3000.00) 1 row(s) affected 0.141 sec
74 06:06:41 SELECT * FROM customer.borrow LIMIT 0, 1000 6 row(s) returned 0.000 sec / 0.000 sec
Table: deposit
Columns:
ACTNO varchar(5) PK