# DBMS Lab test - 01

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```
mysql> create table Borrower(customerid char(11), loan_number char(4));
Query OK, 0 rows affected (0.03 sec)

mysql> show tables;

+------

| Tables_in_test |
+-----+
| borrower |
| customer |
| student |
+-----+
3 rows in set (0.01 sec)
```

```
mysql> create table Loan(loan_number char(4), branch_name varchar(20), amount int);
Query OK, 0 rows affected (0.03 sec)
mysql> show tables;
 Tables_in_test
 account
 borrower
 branch
 customer
 loan
 student
6 rows in set (0.01 sec)
```

```
mysql> alter table customer modify accountnumber char(16);
Query OK, 0 rows affected (0.08 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table customer add primary key (customerid);
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> alter table account modify accountnumber char(16);
Query OK, 0 rows affected (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> alter table borrower add foreign key (customerid) references customer(customerid);
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> alter table loan add primary key (loan_number);
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> alter table borrower add foreign key (loan_number) refernces loan(loan_number);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MyS
QL server version for the right syntax to use near 'refernces loan(loan number)' at line 1
mysq1>
mysql> alter table borrower add foreign key (loan_number) references loan(loan_number);
Query OK, 0 rows affected (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> select * from customer;
 customerid | customername | customerstreet | customer_city | accountnumber
              Smith
                           72 North St.
                                           Rye
 019-28-3746
                                                          520200010091-201
                                           Stamford
 182-73-6091
                           123 Putnam St.
                                                          S20200010091-305
              Turner
              Johnson
                           12 Alma St.
 192-83-7465
                                           Palo Alto
                                                          520200010091-101
 193-83-7465
              Johnson
                           12 Alma St. Palo Alto
                                                          S20200010091-201
                        100 Main St. Harrison
                                                          S20200010091-217
 321-12-3123
              Jones
             Lindsay 175 Park Ave Pittsfield
 336-66-9999
                                                        S20200010091-222
 677-89-9011 Hayes
                           3 Main St. Harrison
                                                        S20200010091-102
7 rows in set (0.00 sec)
```

```
mysql> update customer set customername = 'Rahul' where customerid = '019-28-3746';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from customer;
  customerid | customername | customerstreet | customer city | accountnumber
  019-28-3746
               Rahul
                             72 North St.
                                              Rye
                                                             520200010091-201
                             123 Putnam St.
                                              Stamford
  182-73-6091
               Turner
                                                              S20200010091-305
              Johnson
                             12 Alma St.
                                             Palo Alto
  192-83-7465
                                                             $20200010091-101
 193-83-7465
              Johnson
                             12 Alma St.
                                             Palo Alto
                                                             S20200010091-201
  321-12-3123
               Jones
                             100 Main St.
                                              Harrison
                                                             520200010091-217
              Lindsay
                             175 Park Ave
                                              Pittsfield
                                                             S20200010091-222
  336-66-9999
                                              Harrison
  677-89-9011 | Hayes
                             3 Main St.
                                                             520200010091-102
7 rows in set (0.00 sec)
```

```
mysql> select * from loan;
  loan number | branch name | amount
                Round Hill
                                 900
  L-11
  L-14
                Downtown
                                1500
  L-15
                Perryridge
                                1500
                Perryridge
  L-16
                                1300
  L-17
                Downtown
                                1000
  L-23
                Redwood
                                2000
  L-93
                Mianus
                                 500
7 rows in set (0.00 sec)
```

```
mysql> select * from borrower;
             loan_number
 customerid
 192-83-7465
              L-16
             L-93
 192-83-7465
 677-89-9011 L-15
 182-73-6091 | L-14
 321-12-3123 | L-17
 336-66-9999 L-11
 019-28-3746 L-23
 192-83-7465 L-17
8 rows in set (0.00 sec)
```

```
mysql> select * from branch;
  branchname | branch_city | assets
  Brighton
              Brooklyn
                            7100000
  Downtown
              Brooklyn
                            9000000
  Mianus
             Horseneck
                             400000
  North Town
                            3700000
              Rye
                           1700000
  Perryridge
              Horseneck
              Bennington
  Pownal
                             300000
  Redwood | Palo Alto
                            2100000
  Round Hill | Horseneck
                            8000000
8 rows in set (0.00 sec)
```

```
mysql> select * from account;
                   branch name
  accountnumber
                                balance
  S20200010091-101
                   Downtown
                                      500
                   Perryridge
  S20200010091-102
                                      400
                    Brighton
 S20200010091-201
                                      900
 S20200010091-215 | Mianus
                                      700
 S20200010091-217 | Brighton
                                      750
 S20200010091-222 | Redwood
                                      700
 S20200010091-305 | Round Hill
                                      350
7 rows in set (0.00 sec)
```

```
mysql> select c.customerid, a.accountnumber, a.branch_name from customer as c, account as a where a.accountnumber = c.accountnumber
and a.balance > some(select a.balance from account as a);
 customerid | accountnumber
                                 branch_name
              S20200010091-201
                                 Brighton
 019-28-3746
 192-83-7465
              S20200010091-101
                                 Downtown
                                 Brighton
 193-83-7465
              S20200010091-201
                                 Brighton
 321-12-3123
              S20200010091-217
              S20200010091-222
                                 Redwood
 336-66-9999
 677-89-9011 | S20200010091-102 | Perryridge
6 rows in set (0.00 sec)
```