

# DBMS LAB TEST-01

YASH GUPTA

S20200010234

- QUESTION-1

```
mysql> create database labtest1;
Query OK, 1 row affected (0.01 sec)

mysql> use labtest1;
Database changed

mysql> create table customer(
  ->     customerid varchar(30),
  ->     customername varchar(30),
  ->     customerstreet varchar(30),
  ->     customer_city varchar(30),
  ->     accountnumber varchar(20));
Query OK, 0 rows affected (0.04 sec)

mysql>
mysql> create table branch(
  ->     branchname varchar(30),
  ->     branch_city varchar(30),
  ->     assets int);
Query OK, 0 rows affected (0.02 sec)
```

```
mysql>
mysql> create table Loan(
  ->     loan_number varchar(10),
  ->     branch_name varchar(30),
  ->     amount int);
Query OK, 0 rows affected (0.03 sec)

mysql>
mysql> create table borrower(
  ->     customerid varchar(30),
  ->     loan_number varchar(10));
Query OK, 0 rows affected (0.02 sec)

mysql>
mysql> create table Account(
  ->     accountnumber varchar(20),
  ->     branch_name varchar(30),
  ->     balance int);
Query OK, 0 rows affected (0.02 sec)
```

## • QUESTION 2

```
mysql>
mysql> alter table customer add primary key(customerid,accountnumber);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql>
mysql> alter table account add primary key(accountnumber);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql>
mysql> alter table branch add primary key(branchname);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql>
mysql> alter table loan add primary key(loan_number);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql>
mysql> alter table borrower add primary key(customerid , loan_number);
Query OK, 0 rows affected (0.15 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql>
mysql> alter table account add foreign key(branch_name) references branch(branchname);
Query OK, 0 rows affected (0.08 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql>
mysql> alter table loan add foreign key(branch_name) references branch(branchname);
Query OK, 0 rows affected (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql>
mysql> alter table customer add foreign key(accountnumber) references account(accountnumber);
Query OK, 0 rows affected (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 0

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

mysql>
mysql> alter table borrower add foreign key(loan_number) references loan(loan_number);
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

- QUESTION-3 e

```
mysql> insert into branch values("Brighton","Brooklyn",7100000);
Query OK, 1 row affected (0.00 sec)

mysql> insert into branch values("Downtown","Brooklyn",9000000);
Query OK, 1 row affected (0.00 sec)

mysql> insert into branch values("Mianus","Horseneck",400000);
Query OK, 1 row affected (0.00 sec)

mysql> insert into branch values("North Town","Rye",3700000);
Query OK, 1 row affected (0.00 sec)

mysql> insert into branch values("Perryridge","Horseneck",1700000);
Query OK, 1 row affected (0.00 sec)

mysql> insert into branch values("Pownal","Bennington",300000);
Query OK, 1 row affected (0.00 sec)

mysql> insert into branch values("Redwood","Palo Alto",2100000);
Query OK, 1 row affected (0.00 sec)

mysql> insert into branch values("Round Hill","Horseneck",8000000);
Query OK, 1 row affected (0.00 sec)
```

- QUESTION-3 f

```
mysql> insert into account values('s20200010234-101', 'downtown', 500);
Query OK, 1 row affected (0.01 sec)

mysql> insert into account values('s20200010234-102', 'perryridge', 400);
Query OK, 1 row affected (0.00 sec)

mysql> insert into account values('s20200010234-201', 'brighton', 900);
Query OK, 1 row affected (0.00 sec)

mysql> insert into account values('s20200010234-215', 'mianus', 700);
Query OK, 1 row affected (0.00 sec)

mysql> insert into account values('s20200010234-217', 'brighton', 750);
Query OK, 1 row affected (0.00 sec)

mysql> insert into account values('s20200010234-222', 'redwood', 700);
Query OK, 1 row affected (0.00 sec)

mysql> insert into account values('s20200010234-305', 'round hill', 350);
Query OK, 1 row affected (0.00 sec)
```

- QUESTION-3 c

```
mysql> insert into Loan values('L-11', 'Round Hill', 900);
Query OK, 1 row affected (0.01 sec)

mysql> insert into Loan values('L-14', 'Downtown', 1500);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Loan values('L-15', 'Perryridge', 1500);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Loan values('L-16', 'Perryridge', 1300);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Loan values('L-17', 'Downtown', 1000);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Loan values('L-23', 'Redwood', 2000);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Loan values('L-93', 'Mianus', 500);
Query OK, 1 row affected (0.01 sec)
```

- QUESTION-3 a,b

```
mysql> insert into Customer values('192-83-7464', 'Johnson', '12 Alma St.', 'Palo Alto', 'S20200010234-101');
Query OK, 1 row affected (0.01 sec)

mysql> insert into Customer values('192-83-7465', 'Johnson', '12 Alma St.', 'Palo Alto', 'S20200010234-201');
Query OK, 1 row affected (0.00 sec)

mysql> insert into Customer values('677-89-9011', 'Hayes ', '3 Main St.', 'Harrison', 'S20200010234-102');
Query OK, 1 row affected (0.00 sec)

mysql> insert into Customer values('182-73-6091', 'Turner', '123 Putnam St.', 'Stamford', 'S20200010234-305');
Query OK, 1 row affected (0.00 sec)

mysql> insert into Customer values('321-12-3123', 'Jones', '100 Main St.', 'Harrison', 'S20200010234-217');
Query OK, 1 row affected (0.00 sec)

mysql> insert into Customer values('336-66-9999', 'Lindsay', '175 Park Ave', 'Pittsfield', 'S20200010234-222');
Query OK, 1 row affected (0.00 sec)

mysql> insert into Customer values('019-28-3746', 'Yash', '72 North St.', 'Rye', 'S20200010234-201');
Query OK, 1 row affected (0.00 sec)
```

- QUESTION-3 d

```
mysql> insert into Borrower values('192-83-7465', 'L-16');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into Borrower values('192-83-7465', 'L-93');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into Borrower values('677-89-9011', 'L-15');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into Borrower values('182-73-6091', 'L-14');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into Borrower values('321-12-3123', 'L-17');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into Borrower values('336-66-9999', 'L-11');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into Borrower values('019-28-3746', 'L-23');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into Borrower values('192-83-7465', 'L-17');  
Query OK, 1 row affected (0.00 sec)
```

- QUESTION-5

```
mysql> select c.customername , c.accountnumber , a.branch_name  
-> from customer c , account a  
-> where a.accountnumber = c.accountnumber  
-> and a.balance > (select min(balance) from account);
```

customername	accountnumber	branch_name
Johnson	S20200010234-101	downtown
Hayes	S20200010234-102	perryridge
Yash	S20200010234-201	brighton
Johnson	S20200010234-201	brighton
Jones	S20200010234-217	brighton
Lindsay	S20200010234-222	redwood

6 rows in set (0.03 sec)



THANK YOU