

Lab Homework: Query Testing

#####

Customer

CUSTOMER_NAME	CUSTOMER_STREET	CUSTOMER_CITY
Adams	Spring	Pittsfield
Brooks	Senator	Brooklyn
Curry	North	Rye
Glenn	Sand Hill	Woodside
Green	Walnut	Stamford
Hayes	Main	Harrison
Johnson	Alma	Palo Alto
Jones	Main	Harrison
Smith	Main	Rye
Turner	Putnam	Stamford
Williams	Nassau	Princeton

Depositor

CUSTOMER_NAME	ACCOUNT_NUMBER
Johnson	A-101
Smith	A-215
Hayes	A-102
Turner	A-305
Johnson	A-201
Jones	A-217
Lindsay	A-222

Account

ACCOUNT_NUMBER	BRANCH_NAME	BALANCE
A-101	Downtown	500
A-215	Mianus	700
A-102	Perryridge	400
A-305	Round Hill	350
A-201	Perryridge	900
A-222	Redwood	700
A-217	Brighton	750

Borrower

CUSTOMER_NAME	LOAN_NUMBER
Jones	L-17
Smith	L-23
Hayes	L-15
Jackson	L-14
Curry	L-93
Smith	L-11
Williams	L-17
Adams	L-16

Loan			Branch		
LOAN_N UMBER	BRANCH_ NAME	AMOU NT	BRANCH_ NAME	BRANCH _CITY	ASSETS
L-17	Downtown	1000	Downtown	Brooklyn	900000
L-23	Redwood	2000	Redwood	Palo Alto	2100000
L-15	Perryridge	1500	Perryridge	Horseneck	1700000
L-14	Downtown	1500	Mianus	Horseneck	400200
L-93	Mianus	500	Round Hill	Horseneck	8000000
L-11	Round Hill	900	Pownal	Bennington	400000
L-16	Perryridge	1300	North Town	Rye	3700000
			Brighton	Brooklyn	7000000

CREATE TABLE "customer" AND INSERT DATA:

```
create table customer (
Customer_name varchar(15),
Customer_street varchar(15),
Customer_city varchar(15)
);
```

```
insert into customer values('Adams','Spring','Pittsfield');
insert into customer values('Brooks','Senator','Brooklyn');
insert into customer values('Curry','North','Rye');
insert into customer values('Glenn','Sand Hill','Woodside');
insert into customer values('Green','Walnut','Stamford');
insert into customer values('Hayes','Main','Harrison');
insert into customer values('Johnson','Alma','Palo Alto');
insert into customer values('Jones','Main','Harrison');
insert into customer values('Smith','Main','Rye');
insert into customer values('Turner','Putnam','Stamford');
insert into customer values('Williams','Nassau','Princeton');
```

CREATE TABLE "branch" AND INSERT DATA:

```
create table branch (
Branch_name varchar(12),
Branch_city varchar(12),
Assets int
);
```

```
insert into branch values('Downtown','Brooklyn',900000);
insert into branch values('Redwood','Palo Alto',2100000);
insert into branch values('Perryridge','Horseneck',1700000);
```

```
insert into branch values('Mianus','Horseneck',400200);
insert into branch values('Round Hill','Horseneck',8000000);
insert into branch values('Pownal','Bennington',400000);
insert into branch values('North Town','Rye',3700000);
insert into branch values('Brighton','Brooklyn',7000000);
```

```
# CREATE TABLE "account" AND INSERT DATA:
```

```
-----
```

```
create table account (
Account_number varchar(15),
Branch_name varchar(12),
Balance int
);
```

```
insert into account values('A-101','Downtown',500);
insert into account values('A-215','Mianus',700);
insert into account values('A-102','Perryridge',400);
insert into account values('A-305','Round Hill',350);
insert into account values('A-201','Perryridge',900);
insert into account values('A-222','Redwood',700);
insert into account values('A-217','Brighton',750);
```

```
# CREATE TABLE "depositor" AND INSERT DATA:
```

```
-----
```

```
create table depositor (
Customer_name varchar(15),
Account_number varchar(15)
);
```

```
insert into depositor values('Johnson','A-101');
insert into depositor values('Smith','A-215');
insert into depositor values('Hayes','A-102');
insert into depositor values('Turner','A-305');
insert into depositor values('Johnson','A-201');
insert into depositor values('Jones','A-217');
insert into depositor values('Lindsay','A-222');
```

```
# CREATE TABLE "loan" AND INSERT DATA:
```

```
-----
```

```
create table loan(
Loan_number varchar(12),
Branch_name varchar(12),
Amount int
);
```

```
insert into loan values('L-17','Downtown',1000);
insert into loan values('L-23','Redwood',2000);
insert into loan values('L-15','Perryridge',1500);
insert into loan values('L-14','Downtown',1500);
insert into loan values('L-93','Mianus',500);
```

```
insert into loan values('L-11','Round Hill',900);
insert into loan values('L-16','Perryridge',1300);
```

```
# CREATE TABLE "borrower" AND INSERT DATA:
```

```
-----
create table borrower(
Customer_name varchar(15),
Loan_number varchar(12)
);
```

```
insert into borrower values('Jones','L-17');
insert into borrower values('Smith','L-23');
insert into borrower values('Hayes','L-15');
insert into borrower values('Jackson','L-14');
insert into borrower values('Curry','L-93');
insert into borrower values('Smith','L-11');
insert into borrower values('Williams','L-17');
insert into borrower values('Adams','L-16');
```

```
#01. Find the names & cities of all borrowers
*****
```

CUSTOMER_NAME	CUSTOMER_CITY
Jones	Harrison
Smith	Rye
Hayes	Harrison
Curry	Rye
Williams	Princeton
Adams	Pittsfield

```
#02. Set of names & cities of customers who have a loan at "Perryridge"
branch
```

```
*****
```

CUSTOMER_NAME	CUSTOMER_CITY
Adams	Pittsfield
Hayes	Harrison

```
#03. Number of accounts with balance between 700 and 900
```

```
*****
```

ACCOUNT_NUMBER	BALANCE
A-215	700
A-201	900
A-222	700
A-217	750

#04. Name of customers on streets with names ending in "Hill"

CUSTOMER_NAME	CUSTOMER_STREET
Glenn	Sand Hill

#05. Name of customers with both accounts and loans at "Perryridge"
branch

CUSTOMER_NAME
Hayes

#06. Names of customers with an account but not a loan at "Perryridge"
branch

CUSTOMER_NAME
Johnson

#07. Names & cities of all borrowers

CUSTOMER_NAME	CUSTOMER_CITY
Jones	Harrison
Smith	Rye
Hayes	Harrison
Curry	Rye
Williams	Princeton
Adams	Pittsfield

#08. Set of names of customers with accounts at a branch where "Hayes"
has an account

CUSTOMER_NAME
Hayes
Johnson

#09. Set of names of branch whose assets are greater than the Assets of
some branch in "Brooklyn"

BRANCH_NAME	ASSETS
Redwood	2100000
Perryridge	1700000
Round Hill	8000000
North Town	3700000
Brighton	7000000

#10. Set of names of branch whose assets are greater than the Assets of all branch in "Brooklyn"

BRANCH_NAME	ASSETS
Round Hill	8000000

#11. Set of names of customers at "Perryridge" branch in alphabetical order

CUSTOMER_NAME
Adams
Hayes
Johnson

#12. Loan data ordered by decreasing ammount then increasing loan numbers

LOAN_NUMBER	BRANCH_NAME	AMOUNT
L-23	Redwood	2000
L-14	Downtown	1500
L-15	Perryridge	1500
L-16	Perryridge	1300
L-17	Downtown	1000
L-11	Round Hill	900
L-93	Mianus	500

#13. Names of branch having at least one account with average account balance

BRANCH_NAME	AVG(BALANCE)
Round Hill	350
Mianus	700
Perryridge	650
Redwood	700
Brighton	750
Downtown	500

#14. Names of branch having at least one account with size of set of customers having at least one account at that branch

BRANCH_NAME	COUNT(ACCOUNT_NUMBER)
Round Hill	1
Mianus	1

Perryridge	2
Redwood	1
Brighton	1
Downtown	1

#15. The average balance of all accounts

AVG(BALANCE)
614.286

#16. name of branches having at least one account,with average balances
 of account at each branch,if that average is above 700

BRANCH_NAME	AVG(BALANCE)
Brighton	750

#17. Names of branches having largest average balance

BRANCH_NAME	BALANCE
Brighton	750

#18. The no of customers

COUNT(CUSTOMER_NAME)
11

#19.Find the customers who have a loan in downtown branch

CUSTOMER_NAME
Williams
Jones
Jackson

#20.Find the customers who have loan between 1500 and 2500

CUSTOMER_NAME
Smith
Hayes
Jackson

#21.Find the customers who live in the city "Rye" and have a loan in the
 bank

CUSTOMER_NAME
Curry
Smith

#22. Find the number of borrower in each branch

BRANCH_NAME	COUNT(CUSTOMER_NAME)
Round Hill	1
Mianus	1
Perryridge	2
Redwood	1
Downtown	3

#23. Find the Branch name having largest average loan amount

BRANCH_NAME	AVG(AMOUNT)
Redwood	2000

#24. Find the customers name who borrows the maximum amount

CUSTOMER_NAME	LOAN_NUMBER	AMOUNT
Smith	L-23	2000

#25. Find the customers name with first letter "G"

CUSTOMER_NAME
Glenn
Green