

Query Testing

#####

Customer			Depositor	
CUSTOMER_NAME	CUSTOMER_STREET	CUSTOMER_CITY	CUSTOMER_NAME	ACCOUNT_NUMBER
Adams	Spring	Pittsfield	Johnson	A-101
Brooks	Senator	Brooklyn	Smith	A-215
Curry	North	Rye	Hayes	A-102
Glenn	Sand Hill	Woodside	Turner	A-305
Green	Walnut	Stamford	Johnson	A-201
Hayes	Main	Harrison	Jones	A-217
Johnson	Alma	Palo Alto	Lindsay	A-222
Jones	Main	Harrison		
Smith	Main	Rye		
Turner	Putnam	Stamford		
Williams	Nassau	Princeton		
Account			Borrower	
ACCOUNT_NUMBER	BRANCH_NAME	BALANCE	CUSTOMER_NAME	LOAN_NUMBER
A-101	Downtown	500	Jones	L-17
A-215	Mianus	700	Smith	L-23
A-102	Perryridge	400	Hayes	L-15
A-305	Round Hill	350	Jackson	L-14
A-201	Perryridge	900	Curry	L-93
A-222	Redwood	700	Smith	L-11
A-217	Brighton	750	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
```

```
select customer.CUSTOMER_NAME, customer.CUSTOMER_CITY from customer JOIN
borrower JOIN loan where customer.Customer_name=borrower.Customer_name and
borrower.Loan_number = loan.Loan_number and loan.Branch_name="Perryridge"
```

```
*****
```

CUSTOMER_NAME	CUSTOMER_CITY
Adams	Pittsfield
Hayes	Harrison

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


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

