1A) Create the following tables and insert the values:

ACCOUNT(ACCNO VARCHAR(10)PRIMARY KEY,BRANCH_NAME VARCHAR(10),BALANCE NUMERIC(10))

Insert following data into the table and display the table after all insertions.

O/P:

```
+-------+-------------+---------+
| ACCNO | BRANCH_NAME | BALANCE |
+-------+-------------+---------+
| A-101 | DOWNTOWN    |     500 |
| A-102 | PERRYRIDGE  |     400 |
| A-201 | BRIGHTON    |     400 |
| A-215 | MIANUS      |     700 |
| A-217 | BRIGHTON    |     750 |
| A-222 | REDWOOD     |     700 |
| A-305 | ROUNDHILL   |     350 |
+-------+-------------+---------+
```

TABLE DEPOSITOR(CUSTOMER_NAME VARCHAR(10),ACCOUNT_NUMBER VARCHAR(10))

Insert following data into the table and display the table after all insertions.

O/P:

```
+---------------+----------------+
| CUSTOMER_NAME | ACCOUNT_NUMBER |
+---------------+----------------+
| HAYES         | A-102          |
| JOHNSON       | A-101          |
| JONES         | A-217          |
| LINDSAY       | A-222          |
| SMITH         | A-215          |
| TURNER        | A-205          |
+---------------+----------------+
```

BRANCH(BRANCH_NAME VARCHAR(10),BRANCH_CITY VARCHAR(10),ASSETS NUMERIC(10))

Insert following data into the table and display the table after all insertions.

O/P:

```
+-------------+-------------+---------+
| BRANCH_NAME | BRANCH_CITY | BALANCE |
+-------------+-------------+---------+
| BRIGHTON    | BROOKLYN    | 7100000 |
| DOWNTOWN    | BROOKLYN    | 9000000 |
| MIANUS      | HORSENECK   |  400000 |
| DOWNTOWN    | BROOKLYN    | 9000000 |
| NORTHTOWN   | RYE         | 3700000 |
| PERRYRIDGE  | HORSENECK   | 1700000 |
| PONOWAL     | BENNINGTON  |  300000 |
| REDWOOD     | PALOALTO    | 2100000 |
| ROUNDHILL   | HORSENECK   | 8000000 |
+-------------+-------------+---------+
```

CUSTOMER(CUSTOMER_NAME VARCHAR(10),CUSTOMER_STREET VARCHAR(10),CITY VARCHAR(10))

Insert following data into the table and display the table after all insertions.

O/P:

```
+---------------+-----------------+------------+
| CUSTOMER_NAME | CUSTOMER_STREET | CITY       |
+---------------+-----------------+------------+
| ADAMS         | SPRING          | PITTSFIELD |
| BROOKS        | SENATOR         | BROOKLYN   |
| CURRY         | NORTH           | RYE        |
| GLENN         | SANDHILL        | WOODSIDE   |
| GREEN         | WALNUT          | STAMFORD   |
| HAYES         | MAIN            | HARRISON   |
| JOHNSON       | ALMA            | PALOALTO   |
| JONES         | MAIN            | HARRISON   |
| LINSDAY       | PARK            | PITTSFIELD |
| SMITH         | NORTH           | RYE        |
| TURNER        | PUTNAM          | STAMFORD   |
| WILLIAMS      | NASSAU          | PRINCETON  |
+---------------+-----------------+------------+
```

LOAN(LOAN_NUMBER VARCHAR(10) PRIMARY KEY,BRANCH_NAME VARCHAR(10),AMOUNT NUMERIC(10))

Insert following data into the table and display the table after all insertions.

Q:SELECT * FROM LOAN;

O/P:

```
+-------------+-------------+--------+
| LOAN_NUMBER | BRANCH_NAME | AMOUNT |
+-------------+-------------+--------+
| L-11        | ROUNDHILL   |    900 |
| L-14        | DOWNTOWN    |   1500 |
| L-15        | PERRYRIDGE  |   1500 |
| L-16        | PERRYRIDGE  |   1300 |
| L-17        | DOWNTOWN    |   1000 |
| L-23        | REDWOOD     |   2000 |
| L-93        | MIANUS      |    500 |
+-------------+-------------+--------+
```

Create table borrower

TABLE BORROWER(CUSTOMER_NAME VARCHAR(10),LOAN_NUMBER VARCHAR(10))

Insert following data into the table and display the table after all insertions.

O/P:

| CUSTOMER_NAME | LOAN_NUMBER |
|---------------|-------------|
| ADAMS         | L-16        |
| CURRY         | L-93        |
| HAYES         | L-15        |
| JACKSON       | L-14        |
| JONES         | L-17        |
| SMITH         | L-11        |
| SMITH         | L-23        |
| WILLIAMS      | L-17        |

a) For all customers who have a loan from the bank.find their names,loan numbers and loan amount.

b) .Find the names of all customers whose street address including the substring 'main'.

c) .List loan data ordered by decreasing amount then increasing loan numbers.

d) .Find all the bank customers having a loan or an account or both at the bank.

2A) Create the following tables and insert the values:

ACCOUNT(ACCNO VARCHAR(10)PRIMARY KEY,BRANCH_NAME VARCHAR(10),BALANCE NUMERIC(10))

Insert following data into the table and display the table after all insertions.

O/P:

| ACCNO | BRANCH_NAME | BALANCE |
|-------|-------------|---------|
| A-101 | DOWNTOWN    | 500     |
| A-102 | PERRYRIDGE  | 400     |
| A-201 | BRIGHTON    | 400     |
| A-215 | MIANUS      | 700     |
| A-217 | BRIGHTON    | 750     |
| A-222 | REDWOOD     | 700     |
| A-305 | ROUNDHILL   | 350     |

TABLE DEPOSITOR(CUSTOMER_NAME VARCHAR(10),ACCOUNT_NUMBER VARCHAR(10))

Insert following data into the table and display the table after all insertions.

O/P:

| CUSTOMER_NAME | ACCOUNT_NUMBER |
|---------------|----------------|
| HAYES         | A-102          |
| JOHNSON       | A-101          |
| JONES         | A-217          |
| LINDSAY       | A-222          |
| SMITH         | A-215          |
| TURNER        | A-205          |

BRANCH(BRANCH_NAME VARCHAR(10),BRANCH_CITY VARCHAR(10),ASSETS NUMERIC(10))

Insert following data into the table and display the table after all insertions.

O/P:

| BRANCH_NAME | BRANCH_CITY | BALANCE |
|-------------|-------------|---------|
| BRIGHTON    | BROOKLYN    | 7100000 |
| DOWNTOWN    | BROOKLYN    | 9000000 |
| MIANUS      | HORSENECK   | 400000  |
| DOWNTOWN    | BROOKLYN    | 9000000 |
| NORTHTOWN   | RYE         | 3700000 |
| PERRYRIDGE  | HORSENECK   | 1700000 |
| PONOVAL     | BENNINGTON  | 300000  |
| REDWOOD     | PALOALTO    | 2100000 |
| ROUNDHILL   | HORSENECK   | 8000000 |

CUSTOMER(CUSTOMER_NAME VARCHAR(10),CUSTOMER_STREET VARCHAR(10),CITY VARCHAR(10))

Insert following data into the table and display the table after all insertions.

O/P:

| CUSTOMER_NAME | CUSTOMER_STREET | CITY       |
|---------------|-----------------|------------|
| ADAMS         | SPRING          | PITTSFIELD |
| BROOKS        | SENATOR         | BROOKLYN   |
| CURRY         | NORTH           | RYE        |
| GLENN         | SANDHILL        | WOODSIDE   |
| GREEN         | WALNUT          | STAMFORD   |
| HAYES         | MAIN            | HARRISON   |
| JOHNSON       | ALMA            | PALOALTO   |
| JONES         | MAIN            | HARRISON   |
| LINSDAY       | PARK            | PITTSFIELD |
| SMITH         | NORTH           | RYE        |
| TURNER        | PUTNAM          | STAMFORD   |
| WILLIAMS      | NASSAU          | PRINCETON  |

```
LOAN(LOAN_NUMBER VARCHAR(10) PRIMARY KEY,BRANCH_NAME
VARCHAR(10),AMOUNT NUMERIC(10))
```
Insert following data into the table and display the table after all insertions.
Q:SELECT * FROM LOAN;
O/P:

```
+-------------+-------------+---------+
! LOAN_NUMBER ! BRANCH_NAME ! AMOUNT  !
+-------------+-------------+---------+
! L-11        ! ROUNDHILL   !     900 !
! L-14        ! DOWNTOWN    !    1500 !
! L-15        ! PERRYRIDGE  !    1500 !
! L-16        ! PERRYRIDGE  !    1300 !
! L-17        ! DOWNTOWN    !    1000 !
! L-23        ! REDWOOD     !    2000 !
! L-93        ! MIANUS      !     500 !
+-------------+-------------+---------+
```

Create table borrower

TABLE BORROWER(CUSTOMER_NAME VARCHAR(10),LOAN_NUMBER
VARCHAR(10))

Insert following data into the table and display the table after all insertions.
O/P:

```
+---------------+-------------+
! CUSTOMER_NAME ! LOAN_NUMBER !
+---------------+-------------+
! ADAMS         ! L-16        !
! CURRY         ! L-93        !
! HAYES         ! L-15        !
! JACKSON       ! L-14        !
! JONES         ! L-17        !
! SMITH         ! L-11        !
! SMITH         ! L-23        !
! WILLIAMS      ! L-17        !
+---------------+-------------+
```

a) For all customer who have a loan from the bank.find their names and loan numbers with suitable attribute loan_number replaced by loan id.
b) Find the customer names,loan numbers and loan amounts for all loans at perryridge branch.
c) Find all customers who have an account but no loan at the bank.
d) .Find the avg account balance at each branch.

3A) Create the following tables and insert the values:

```
ACCOUNT(ACCNO VARCHAR(10)PRIMARY KEY,BRANCH_NAME
VARCHAR(10),BALANCE NUMERIC(10))
```
Insert following data into the table and display the table after all insertions.
O/P:

```
+-------+-------------+---------+
! ACCNO ! BRANCH_NAME ! BALANCE !
+-------+-------------+---------+
! A-101 ! DOWNTOWN    !     500 !
! A-102 ! PERRYRIDGE  !     400 !
! A-201 ! BRIGHTON    !     400 !
! A-215 ! MIANUS      !     700 !
! A-217 ! BRIGHTON    !     750 !
! A-222 ! REDWOOD     !     700 !
! A-305 ! ROUNDHILL   !     350 !
+-------+-------------+---------+
```

TABLE DEPOSITOR(CUSTOMER_NAME VARCHAR(10),ACCOUNT_NUMBER VARCHAR(10))
Insert following data into the table and display the table after all insertions.
O/P:

| CUSTOMER_NAME | ACCOUNT_NUMBER |
|---|---|
| HAYES | A-102 |
| JOHNSON | A-101 |
| JONES | A-217 |
| LINDSAY | A-222 |
| SMITH | A-215 |
| TURNER | A-205 |

BRANCH(BRANCH_NAME VARCHAR(10),BRANCH_CITY VARCHAR(10),ASSETS NUMERIC(10))
Insert following data into the table and display the table after all insertions.
O/P:

| BRANCH_NAME | BRANCH_CITY | BALANCE |
|---|---|---|
| BRIGHTON | BROOKLYN | 7100000 |
| DOWNTOWN | BROOKLYN | 9000000 |
| MIANUS | HORSENECK | 400000 |
| DOWNTOWN | BROOKLYN | 9000000 |
| NORTHTOWN | RYE | 3700000 |
| PERRYRIDGE | HORSENECK | 1700000 |
| PONOWAL | BENNINGTON | 300000 |
| REDWOOD | PALOALTO | 2100000 |
| ROUNDHILL | HORSENECK | 8000000 |

CUSTOMER(CUSTOMER_NAME VARCHAR(10),CUSTOMER_STREET VARCHAR(10),CITY VARCHAR(10))
Insert following data into the table and display the table after all insertions.

O/P:

| CUSTOMER_NAME | CUSTOMER_STREET | CITY |
|---|---|---|
| ADAMS | SPRING | PITTSFIELD |
| BROOKS | SENATOR | BROOKLYN |
| CURRY | NORTH | RYE |
| GLENN | SANDHILL | WOODSIDE |
| GREEN | WALNUT | STAMFORD |
| HAYES | MAIN | HARRISON |
| JOHNSON | ALMA | PALOALTO |
| JONES | MAIN | HARRISON |
| LINSDAY | PARK | PITTSFIELD |
| SMITH | NORTH | RYE |
| TURNER | PUTNAM | STAMFORD |
| WILLIAMS | NASSAU | PRINCETON |

LOAN(LOAN_NUMBER VARCHAR(10) PRIMARY KEY,BRANCH_NAME VARCHAR(10),AMOUNT NUMERIC(10))
Insert following data into the table and display the table after all insertions.
Q:SELECT * FROM LOAN;
O/P:

| LOAN_NUMBER | BRANCH_NAME | AMOUNT |
|---|---|---|
| L-11 | ROUNDHILL | 900 |
| L-14 | DOWNTOWN | 1500 |
| L-15 | PERRYRIDGE | 1500 |
| L-16 | PERRYRIDGE | 1300 |
| L-17 | DOWNTOWN | 1000 |
| L-23 | REDWOOD | 2000 |
| L-93 | MIANUS | 500 |

Create table borrower

TABLE BORROWER(CUSTOMER_NAME VARCHAR(10),LOAN_NUMBER VARCHAR(10))

Insert following data into the table and display the table after all insertions.
O/P:

| CUSTOMER_NAME | LOAN_NUMBER |
|---|---|
| ADAMS | L-16 |
| CURRY | L-93 |
| HAYES | L-15 |
| JACKSON | L-14 |
| JONES | L-17 |
| SMITH | L-11 |
| SMITH | L-23 |
| WILLIAMS | L-17 |

a) Add a phone_no to customer table.

b) Transfer the accounts and loans of perryridge branch to downtown branch.
c) Find those branches where the avg account balance is more than 500.
d) Find all customers who do have a loan at the bank and but do not have an account at the bank

4A) Create the following tables and insert the values:

ACCOUNT(ACCNO VARCHAR(10)PRIMARY KEY,BRANCH_NAME
VARCHAR(10),BALANCE NUMERIC(10))
Insert following data into the table and display the table after all insertions.
O/P:

| ACCNO | BRANCH_NAME | BALANCE |
|-------|-------------|---------|
| A-101 | DOWNTOWN | 500 |
| A-102 | PERRYRIDGE | 400 |
| A-201 | BRIGHTON | 400 |
| A-215 | MIANUS | 700 |
| A-217 | BRIGHTON | 750 |
| A-222 | REDWOOD | 700 |
| A-305 | ROUNDHILL | 350 |

TABLE DEPOSITOR(CUSTOMER_NAME VARCHAR(10),ACCOUNT_NUMBER
VARCHAR(10))
Insert following data into the table and display the table after all insertions.
O/P:

| CUSTOMER_NAME | ACCOUNT_NUMBER |
|---------------|----------------|
| HAYES | A-102 |
| JOHNSON | A-101 |
| JONES | A-217 |
| LINDSAY | A-222 |
| SMITH | A-215 |
| TURNER | A-205 |

BRANCH(BRANCH_NAME VARCHAR(10),BRANCH_CITY VARCHAR(10),ASSETS
NUMERIC(10))
Insert following data into the table and display the table after all insertions.
O/P:

| BRANCH_NAME | BRANCH_CITY | BALANCE |
|-------------|-------------|---------|
| BRIGHTON | BROOKLYN | 7100000 |
| DOWNTOWN | BROOKLYN | 9000000 |
| MIANUS | HORSENECK | 400000 |
| DOWNTOWN | BROOKLYN | 9000000 |
| NORTHTOWN | RYE | 3700000 |
| PERRYRIDGE | HORSENECK | 1700000 |
| PONOWAL | BENNINGTON | 300000 |
| REDWOOD | PALOALTO | 2100000 |
| ROUNDHILL | HORSENECK | 8000000 |

CUSTOMER(CUSTOMER_NAME VARCHAR(10),CUSTOMER_STREET
VARCHAR(10),CITY VARCHAR(10))
Insert following data into the table and display the table after all insertions.

O/P:

| CUSTOMER_NAME | CUSTOMER_STREET | CITY |
|---------------|-----------------|------|
| ADAMS | SPRING | PITTSFIELD |
| BROOKS | SENATOR | BROOKLYN |
| CURRY | NORTH | RYE |
| GLENN | SANDHILL | WOODSIDE |
| GREEN | WALNUT | STAMFORD |
| HAYES | MAIN | HARRISON |
| JOHNSON | ALMA | PALOALTO |
| JONES | MAIN | HARRISON |
| LINSDAY | PARK | PITTSFIELD |
| SMITH | NORTH | RYE |
| TURNER | PUTNAM | STAMFORD |
| WILLIAMS | NASSAU | PRINCETON |

LOAN(LOAN_NUMBER VARCHAR(10) PRIMARY KEY,BRANCH_NAME
VARCHAR(10),AMOUNT NUMERIC(10))
Insert following data into the table and display the table after all insertions.
Q:SELECT * FROM LOAN;
O/P:

| LOAN_NUMBER | BRANCH_NAME | AMOUNT |
|-------------|-------------|--------|
| L-11 | ROUNDHILL | 900 |
| L-14 | DOWNTOWN | 1500 |
| L-15 | PERRYRIDGE | 1500 |
| L-16 | PERRYRIDGE | 1300 |
| L-17 | DOWNTOWN | 1000 |
| L-23 | REDWOOD | 2000 |
| L-93 | MIANUS | 500 |

Create table borrower

TABLE BORROWER(CUSTOMER_NAME VARCHAR(10),LOAN_NUMBER VARCHAR(10))

Insert following data into the table and display the table after all insertions.
O/P:

```
+-----------------+---------------+
: CUSTOMER_NAME : LOAN_NUMBER :
+-----------------+---------------+
: ADAMS          : L-16         :
: CURRY          : L-93         :
: HAYES          : L-15         :
: JACKSON        : L-14         :
: JONES          : L-17         :
: SMITH          : L-11         :
: SMITH          : L-23         :
: WILLIAMS       : L-17         :
+-----------------+---------------+
```

a) List all accounts of perryridge branch with balance less than 1000.
b) Drop the column phone_no from customer table
c) .Find the names of all branches that have assets greater those of atleast 1 branch located in Brooklyn
d) Find the avg balance for each customer who lives in harrison and hass at least 3 account.