The Database I am creating is a Bank Database. I am using a very simple bank database, which has few tables and will provide very limited capabilities to the bank.

***Bank Database:***

The bank database I have created has 4 tables: Branch, Account, Depositor and Customer

The details (attributes) of the bank databases are as shown:

i) The branch table contain information about the branch location.

ii) The Account table has information about the balance and the account holder and where he is having a account(which branch).

iii) The Depositor table has information about which Account is associated with which customer.

iv) The customer table has information about the customer like his name, address etc.

Branch\_name

Branch\_city

City\_code

Account\_number

Branch\_name

Balance

Customer\_name

Account\_number

Customer\_name

Customer\_street

Customer\_city

Phone\_number

**Branch**

**Account**

**Depositor**

**Customer**

**Branch**: **Branch\_name**, Branch\_city, City\_code

**Account**: **Account\_number**, Branch\_name, Balance

**Depositor**: Customer\_name, Account\_number

**Customer**: **Customer\_name**, Customer\_street, Customer\_city, Phone\_number

The underlined attributes are the primary key above.

The SQL statements for creating the above tables are as following:

Branch : Create table branch

 (branch\_name char(20)

 Branch\_city char(30)

 City\_code int

 Primary key (branch\_name))

Account : Create table account

 (account\_number char(10)

 Branch\_name char(20)

 balance int

 Primary key (account\_number))

Depositor : Create table depositor

 (customer\_name char(20)

 account\_number char(10))

Customer : Create table customer

 (customer\_name char(20)

 customer\_street char(30)

 customer\_city char(30)

 phone\_number char(10)

 Primary key (customer\_name))

This database may provide the following information:

1. The balance present in a customer’s Account.
2. The information about a customer holding a particular Account number X .
3. How many Customers in the bank has balance less than a some amount Y.

The SQL statements for the above are as follow:

i) To find the balance in account number X

Select balance from from Account where account\_number = X

ii) The information about a customer holding a particular Account number X .

 Select customer\_name, customer\_street, customer\_city, phone\_number from

Customer where customer\_name = (select customer name from Depositor

where account\_number = X)

iii) How many Customers in the bank has balance less than a some amount Y.

select count(account\_number) from Account where balance < Y

Sample Set :

1. Select balance from from Account where account\_number = 0111123323

Output :: 2000
2. Select customer\_name, customer\_street, customer\_city, phone\_number from

Customer where customer\_name = (select customer name from Depositor

where account\_number = 0111123456)

 Output :: Customer\_name – Hector

 Customer\_street – bbb

 Customer\_city – XYZ

 Phone\_number -- 1982918291

1. select count(account\_number) from Account where balance < 3000

Output :: 2