SACRED HEART SCHOOL

Rajiv Nagar, Kharika, Lucknow

A Project Report
on

Bank Management System

For
AISSCE 202 -2 Examination
[As a part of the Informatics Practices Course (065)]

SUBMITTED BY:
1) [Roll No-_____]

Under the Guidance of:
SUNIL SIR
PGT (Comp. Sc)

CERTIFICATE

This is to certify that the Project entitled ***Bank Management System*** *is a bonafide work done by _____ ___of class XII Session 202 -2 in partial fulfillment of CBSE's AISSCE Examination 202 -2 and has been carried out under my direct supervision and guidance. This report or a similar report on the topic has not been submitted for any other examination and does not form a part of any other course undergone by the candidate.*

……
Signature of Students

Name:

……..
Signature of Teacher/Guide

Name: *SUNIL SIR*
PGT (Comp.Sc.)

……
Signature of Principal

Signature of External Examinar

……

Place:…….
Date:……..

ACKNOWLEDGEMENT

I undertook this Project work, as the part of my XII-Informatics Practices course.I had tried to apply my best of knowledge and experience, gained during the study and class work experience. However, developing software system is generally a quite complex and time-consuming process. It requires a systematic study, insight vision and professional approach during the design and development. Moreover, the developer always feels the need, the help and good wishes of the people near you, who have considerable experience and idea.

I would like to extend my sincere thanks and gratitude to my teacher Mr. Sunil Sir. I am very much thankful to our Principal Mrs. Indu S. Nair for giving valuable time and moral support to develop this software.

I would like to take the opportunity to extend my sincere thanks and gratitude to my parents for being a source of inspiration and providing time and freedom to develop this software project.

I also feel indebted to my friends for the valuable suggestions during the project work.

_____ *[RollNo-_____]*

Class XII

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1. Introduction

This software project is developed to automate the functionalities of a Bank Management System. The purpose of the software project is to develop the Management Information System (MIS) to automate the record keeping of customer's entry, Debit entry, Credit entry , Search customer's record, Search Total amount Received, Update a Record and delete a Record with a view to enhance the decision making of the functionaries.

A MIS mainly consists of a computerized database, a collection of inter-related tables for a particular subject or purpose, capable to produce different reports relevant to the user. An application program is tied with the database for easy access and interface to the database. Using Application program or front-end, we can store, retrieve and manage all information in proper way.

This software, being simple in design and working, does not require much of training to users, and can be used as a powerful tool for automating a Bank Management System.

During coding and design of the software Project, Python a powerful front-end tool is used for coding simplicity. As a back-end a powerful, open source RDBMS, My SQL is used as per requirement of the CBSE curriculum of Informatics Practices Course.

2. Objective & Scope of the Project

The objective of the software project is to develop a computerized MIS to automate the functions of a Bank Management. This software project is also aimed to enhance the current record keeping system, which will help admin or office staff to retrieve the up-to-date information at right time in right shape.

The proposed software system is expected to do the following functionality-

- ✓ *To provide a user friendly and centralized environment for MIS activities.*
- ✓ *The proposed system should maintain all the records and transactions, and should generate the required reports and information when required.*
- ✓ *To identify the critical operation procedure and possibilities of simplification using modern IT tools and practices.*

In its current scope, the software enables user to retrieve and update the information from centralized database designed with MySQL. This software does not require much training time of the users due to limited functionality and simplicity.

3. Theoretical Background

3.1 What is Database?

Introduction and Concepts:

A database is a collection of information related to a particular subject or purpose, such as tracking customer orders or maintaining a music collection. Using any RDBMS application software like MS SQL Server, MySQL, Oracle, Sybase etc, you can manage all your information from a single database file. Within the file, divide your data into separate storage containers called tables. You may and retrieve the data using queries.

A table is a collection of data about a specific topic, such as products or suppliers. Using a separate table for each topic means you can store that data only once, which makes your database more efficient and reduces data-entry errors. Table organises data into columns (called fields) and rows (called records).

A Primary key is one or more fields whose value or values uniquely identify each record in a table. In a relationship, a primary key is used to refer to specific record in one table from another table. A primary key is called foreign key when it is referred to from another table.

To find and retrieve just the data that meets conditions you specify, including data from multiple tables, create a query. A query can also update or delete multiple records at the same time, and perform built-in or custom calculations on your data.

3.2 What is My SQL?



The management of data in a database system is done by means of a general-purpose software package called a Database Management System (DBMS). Some commercially available RDBMS are MS SQL Server, MS ACCESS, INGRES, ORACLE, and Sybase.

MySQL, the most popular Open Source SQL database management system, is developed, distributed, and supported by Oracle Corporation. MySQL is named after co-founder Monty Widenius's daughter, My. The name of the MySQL Dolphin (our logo) is "Sakila,".

- ***MySQL is a database management system.***
- ***MySQL is based on SQL.***
- ***MySQL software is Open Source.***

- ***The MySQL Database Server is very fast, reliable, and easy to use.***
- ***MySQL Server works in client/server or embedded systems.***

The Main Features of MySQL

- *Written in C and C++.*
- *Works on many different platforms.*
- *Uses multi-layered server design with independent modules.*
- *Provides transactional and nontransactional storage engines.*
- *Uses a very fast thread-based memory allocation system.*
- *Executes very fast joins using an optimized nested-loop join.*
- *Implements SQL functions using a highly optimized class library that should be as fast as possible. Usually there is no memory allocation at all after query initialization.*
- *Provides the server as a separate program for use in a client/server networked environment, and as a library that can be embedded (linked) into standalone applications. Such applications can be used in isolation or in environments where no network is available.*
- *Password security by encryption of all password traffic when you connect to a server.*
- *Support for large databases. We use MySQL Server with databases that contain 50 million records. We also know of users who use MySQL Server with 200,000 tables and about 5,000,000,000 rows.*

3.3 Python

Python is an easy-to-learn yet powerful object oriented programming language. It is developed by Guido Van Rossum in 1991. Python is an interpreted language.

Features of Python

1. *Easy to Use:-Very simple and simple syntax. It can be your first programming language too.*
2. *Python is case sensitive: Case sensitivity is the phrase used to describe a programming languages ability to distinguish between upper and lower case versions of a letter in the language's character set.* ***means*** *that x=20 is different from X=30 . The variable of John is different from the variable of john.*
3. *It is an object oriented language:* ***Python is an object-oriented programming language****. What this means is we can solve a problem in Python by creating objects in our programs.*

4. *Dynamically typed:* ***Python*** *variable assignment is different from some of the popular languages like c, c++ and java. There is no declaration of a variable, just an assignment statement. ... But* ***Python*** *is a* ***dynamically typed*** *language. It doesn't know about the* ***type*** *of the variable until the code is run Python will automatically recognize the type of variable with the help of the value in the runtime.*
5. *Indentation is used in place of curly braces:* ***Indentation*** *refers to the spaces at the beginning of a code line.* ***Python*** *uses* ***indentation*** *to indicate a block of code.*
6. *Use variable without declaration: V****ariables*** *are containers for storing data values. Unlike other programming languages,* ***Python*** *has no command for* ***declaring*** *a* ***variable****. A* ***variable*** *is created the moment* ***you*** *first assign a value to it.*
7. *Interpreted Language: Python is an interpreted language, not a compiled language. This means that the python interprets and executes the code line by line at a time. It makes python an easy-to-debug language and thus suitable for beginners to advance users.*
8. *Large library: A* ***Python*** *library is a reusable chunk of code that you may want to include in your programs/ projects. To make use of the functions in a* ***module****, you'll need to* ***import*** *the* ***module*** *with an* ***import*** *statement. An* ***import*** *statement is made up of the* ***import*** *keyword along with the name of the* ***module****.*
9. *With the Python interactive interpreter: it is easy to check python commands With the Python interactive interpreter it is easy to check Python commands.*
10. *Platform Independent: Python can run equally well on variety of platforms- windows, Linus/UNIX, super computers, smart phones*

4. Problem Definition & Analysis

The hardest part of building a software system is deciding precisely what to build. No other part of the conceptual work is as difficult as establishing the detailed technical requirement. Defining and applying good, complete requirements are hard to work, and success in this endeavor has eluded many of us. Yet, we continue to make progress.

Problem definition describes the of a system, not How. The quality of a software product is only as good as the process that creates it. Problem definition is one of the most crucial steps in this creation process. Without defining a problem, developers do not know what to build, customers do not know what to expect, and there is no way to validate that the built system satisfies the requirement.

Problem definition and Analysis is the activity that encompasses learning about the problem to be solved, understanding the needs of customer and users, trying to find out who the user really is, and understanding all the constraints on the solution. It includes all activities related to the following:

- ✓ *Identification and documentation of customer's or user's needs.*
- ✓ *Creation of a document that describes the external behavior and the association constraints that will satisfies those needs.*
- ✓ *Analysis and validation of the requirements documents to ensure consistency, completeness, and feasibility*
- ✓ *Evolution of needs.*

After the analysis of the functioning of a Bank management system, the proposed System is expected to do the following: -

- ✓ *To provide a user friendly, integrated and centralized environment for computerized Bank Management System.*
- ✓ *The proposed system should maintain all the records and transactions, and should generate the required reports and information when required.*

- ✓ *To provide efficient and secured Information storage, flow and retrieval system, ensuring the integrity and validity of records.*
- ✓ *To provide graphical and user-friendly interface to interact with a centralized database based on client-server architecture.*
- ✓ *To identify the critical operation procedure and possibilities of simplification using modern IT tools and practices.*

5. System Implementation

5.1 The Hardware used:

While developing the system, the used hardware are:

PC with Dual Core processor or sometimes, Laptop with Core i3 processor having 2 GB RAM, SVGA and other required devices.

5.2 The Softwares used:

- *Microsoft Windows® 7 & 8 as Operating System.*
- *Python 3.x.x as Front-end Development environment.*
- *MySQL as Back-end Sever with Database for Testing.*

6. How to install Software:

Hardware Requirement-

- Intel Pentium/Celeron or similar processor based PC at Client/Server end.
- 128 MB RAM and 4GB HDD space (for Database) is desirable.
- Standard I/O devices like Keyboard and Mouse etc.
- Printer is needed for hard-copy reports.
- Local Area Network(LAN) is required for Client-Server Installation

Software Requirement-

- Windows 7, 8 OS is desirable.
- Python Ver 3.x.x or higher should be installed.
- MySQL must be present at machine.

7. System Design & Development

Database Design

The software project for Bank Management System contains three tables. Tables are given below.

Table: Bank

```
mysql> desc bank;
+--------------+-------------+------+-----+-----------------+-------+
| Field        | Type        | Null | Key | Default         | Extra |
+--------------+-------------+------+-----+-----------------+-------+
| acc_no       | int(11)     | NO   | PRI | NULL            |       |
| cust_name    | varchar(30) | YES  |     | NULL            |       |
| account_type | varchar(15) | YES  |     | Saving          |       |
| op_bal       | double      | YES  |     | NULL            |       |
| op_date      | date        | YES  |     | NULL            |       |
| particulars  | varchar(100)| YES  |     | Opening Balance |       |
+--------------+-------------+------+-----+-----------------+-------+
6 rows in set (0.09 sec)
```

Table: tbl_credit

```
mysql> desc tbl_credit;
+-------------+--------------+------+-----+---------+-------+
| Field       | Type         | Null | Key | Default | Extra |
+-------------+--------------+------+-----+---------+-------+
| acc_no      | int(11)      | YES  | MUL | NULL    |       |
| trans_Date  | date         | YES  |     | NULL    |       |
| trans       | char(2)      | YES  |     | Cr      |       |
| Credit      | double       | YES  |     | NULL    |       |
| particulars | varchar(100) | YES  |     | NULL    |       |
+-------------+--------------+------+-----+---------+-------+
5 rows in set (0.05 sec)
```

Table: tbl_debit

```
mysql> desc tbl_debit;
+-------------+--------------+------+-----+---------+-------+
| Field       | Type         | Null | Key | Default | Extra |
+-------------+--------------+------+-----+---------+-------+
| acc_no      | int(11)      | YES  | MUL | NULL    |       |
| trans_Date  | date         | YES  |     | NULL    |       |
| trans       | char(2)      | YES  |     | Dr      |       |
| Debit       | double       | YES  |     | NULL    |       |
| particulars | varchar(100) | YES  |     | NULL    |       |
+-------------+--------------+------+-----+---------+-------+
5 rows in set (0.00 sec)
```

Table:- balance

```
mysql> desc balance;
+------------+--------------+------+-----+---------+-------+
| Field      | Type         | Null | Key | Default | Extra |
+------------+--------------+------+-----+---------+-------+
| acc_no     | int(11)      | YES  |     | NULL    |       |
| trans_Date | date         | YES  |     | NULL    |       |
| particular | varchar(100) | YES  |     | NULL    |       |
| Debit      | double       | YES  |     | NULL    |       |
| Credit     | double       | YES  |     | NULL    |       |
| balance    | double       | YES  |     | NULL    |       |
+------------+--------------+------+-----+---------+-------+
6 rows in set (0.00 sec)
```

I/O Forms Menu & Coding:

The software project for Bank Management contains various Menu Items along with programming codes.

Menu

```
_____________________________________________________________
                    Bank Management System
Developed By

_____________________________________________________________

                         MENU
_____________________________________________________________
Press 1 For New Account
Press 2 For Credit Transcation
Press 3 For Debit Transcation
Press 4 For Search Customer
Press 5 For Update Customer Details
Press 0 For Quit from An Application

_____________________________________________________________
Press Enter.................
```

```
import pandas as pd
from datetime import datetime
from datetime import date
import mysql.connector
myconn=mysql.connector.connect(host="localhost",user="root",passwd="sunilsir
",database="bank1")
print(myconn)
cur=myconn.cursor()

trans_cur=myconn.cursor()
trans_bal=myconn.cursor()
cur1=myconn.cursor()
cur_update=myconn.cursor()
credit_amt=0;
dt=date.today()
print("\n\n")
print("_____________________________________________________________")
print("                Bank Management System          ")
print("Developed By                                    ")
print("_____________________________________________________________")
print("")
choice=int(6)
while choice>0:

print("_____________________MENU_____________________________")
    print("Press 1 For New Account")
    print("Press 2 For Credit Transcation")
    print("Press 3 For Debit Transcation")
    print("Press 4 For Search Customer")
    print("Press 5 For Update Customer Details")
    print("Press 0 For Quit from An Application")

print("_____________________________________________________________")
    print("Press Enter.....................")
    input()
    choice=int(input("Enter Your Choice!....."))
```

When Press 1

```
Enter Your Choice!.....1
                                                        Date= 2020-12-29
_____________________________________________________________________
Enter the following Entries
Enter Account Number94567
Enter Customer NameDevraj Singh
                                                    Account Type Saving
_____________________________________________________________________
Enter Amount50000
                          Opening Date 2020-12-29
_________________________
```

```
if choice==1:
        acc_type="Saving"
        print("_____________________________________________Date=",dt)
        trans_bal=myconn.cursor()

        print("Enter the following Entries ")
        acc_no=int(input("Enter Account Number"))
        na=input("Enter Customer Name")
        print("_____________________________________Account Type",acc_type)
        amount=float(input("Enter Amount"))
        opening_dat=dt
        print("_____________________________Opening Date",opening_dat)
        parti="opening Balance"
        qry1="insert into bank (acc_no, cust_name, account_type, op_bal, op_date,
         particulars)  values (%s,%s,%s,%s,%s,%s)"
         data=(acc_no,na,acc_type,amount,opening_dat,parti)
         cur1.execute(qry1,data)
         qry2="insert into tbl_credit(acc_no,trans_Date,credit,particulars)values
         (%s,%s,%s,%s)"
         data2=(acc_no,opening_dat,amount,parti)
         trans_cur.execute(qry2,data2)

         qry_balance="insert into balance(acc_no, trans_Date, particular, Debit,
        credit, balance)values (%s,%s,%s,%s,%s,%s)"
          debit_amt=0
```

```
data_balance=(acc_no,opening_dat,parti,debit_amt,amount,amount)
 trans_bal.execute(qry_balance,data_balance)
 print("_____")
 print("_____")
 myconn.commit()
```

Changes in Data base

```
mysql> select * from bank where acc_no=94567;
+--------+-------------+-------------+--------+-----------+----------------+
| acc_no | cust_name   | account_type | op_bal | op_date   | particulars    |
+--------+-------------+-------------+--------+-----------+----------------+
|  94567 | Devraj Singh | Saving      |  50000 | 2020-12-29 | opening Balance |
+--------+-------------+-------------+--------+-----------+----------------+
1 row in set (0.00 sec)
```

```
mysql> select * from tbl_credit where acc_no=94567;
+--------+------------+-------+--------+-----------------+
| acc_no | trans_Date | trans | Credit | particulars     |
+--------+------------+-------+--------+-----------------+
|  94567 | 2020-12-29 | Cr    |  50000 | opening Balance |
+--------+------------+-------+--------+-----------------+
1 row in set (0.05 sec)
```

```
mysql> select * from balance where acc_no=94567;
+--------+------------+----------------+-------+--------+---------+
| acc_no | trans_Date | particular     | Debit | Credit | balance |
+--------+------------+----------------+-------+--------+---------+
|  94567 | 2020-12-29 | opening Balance |     0 |  50000 |   50000 |
+--------+------------+----------------+-------+--------+---------+
1 row in set (0.00 sec)
```

When press 2:

```
Enter Your Choice!.....2
Enter Account Number1003
```

Data from table

```
Account Number Date    Balance
1003 | 2019-09-24 | 25000.0
To Day's Date is_____________________ 2020-12-29
Balance
Rs. 25000.0
```

Enter Credit Amount

```
Enter Amount to Deposite35000
Enter Statement like Cash Deposite, DD no Or Cheque NoCash
```

```
if choice==2:
        ac_no=int(input("Enter Account Number"))
        v=(ac_no,)
        query_select="select * from balance where acc_no=%s"
        print(query_select)
        cur.execute(query_select,v)
        data=cur.fetchall()
        print("Account Number","Date  ","Balance")
        for row in data:
            print(row[0],"|",row[1],"|",row[5])

        bal=row[5]
        getdate=dt
        print("To Day's Date is_____________________",getdate)
        print("Balance     Rs.",bal)
        t="Cr"
        ac_no1=row[0]
        credit_amount=float(input("Enter Amount to Deposite"))
        parti=input("Enter Statement like Cash Deposite, DD no Or
        Cheque No")
        new_bal=bal+credit_amount
        dt=date.today()
        debit=0
```

```
qry4="insert into tbl_credit (acc_no, trans_date, trans, credit,
 particulars) values(%s,%s,%s,%s,%s)"
data4=(ac_no1,dt,t,credit_amount,parti)
trans_cur.execute(qry4,data4)

qry5="insert into balance (acc_no, trans_Date, particular, Debit,
Credit,balance)values(%s,%s,%s,%s,%s,%s)"
data5=(ac_no1,dt,parti,debit,credit_amount,new_bal)
trans_cur.execute(qry5,data5)
```

Changes in table

```
mysql> select * from tbl_credit where acc_no=1003;
+--------+------------+-------+--------+-------------+
| acc_no | trans_Date | trans | Credit | particulars |
+--------+------------+-------+--------+-------------+
|   1003 | 2020-12-29 | Cr    |  35000 | Cash        |
+--------+------------+-------+--------+-------------+
1 row in set (0.00 sec)
```

When press 3:

```
Enter Your Choice!.....3
Enter Account Number100
| A\C | Transcation Date |     Particulars | | Debit Amount | Balance Amount |
| 100 | 2019-09-24       | opening Balance  | 0.0      | 2000.0          | 2000.0 |
| 100 | 2019-09-24       | cash            | 0.0      | 1000.0          | 3000.0 |
| 100 | 2019-09-24       | Cash            | 0.0      | 500.0           | 2500.0 |
| 100 | 2019-09-24       | caxh            | 200.0        | 0.0         | 2300.0 |
| 100 | 2020-12-29       | Cash            | 0.0     | 45000.0          | 47300.0 |
To Day's Date is_____ 2020-12-29
Balance .....
.....Rs. 47300.0
Enter Amount to Withdraw5000
Enter Statement like Cash Widthdrawl, DD no Or Cheque NoCash
```

if choice==3:

```
        ac_no=int(input("Enter Account Number"))
```

```
v=(ac_no,)
query_select="select * from balance where acc_no=%s"
cur.execute(query_select,v)
data=cur.fetchall()
print("|","A\C","|","Transcation Date","|","    Particulars","|","|","Debit
Amount","|","Balance Amount","|")

for row in data:
        n=str(row[1])
        r4=str(row[4])
        r3=str(row[3])
        print("|",row[0],"|",row[1]," "*(15-len(n)),"|",row[2]," "*(14-
        len(row[2])),"|",row[3]," "*(10-len(r4)),"|",row[4]," "*(12-
        len(r3)),"|",row[5],"|")
bal=row[5]
getdate=dt
print("To Day's Date_____",getdate)
print("Balance  .....Rs.",bal)
t="Dr"
ac_no1=row[0]
debit_amount=float(input("Enter Amount to Withdraw"))
parti=input("Enter Statement like Cash Widthdrawl, DD no Or Cheque
No")
new_bal=bal-debit_amount
dt=date.today()
credit=0
qry6="insert into tbl_debit (acc_no,trans_date,trans,debit,particulars)
 values(%s,%s,%s,%s,%s)"
data6=(ac_no1,dt,t,debit_amount,parti)
trans_cur.execute(qry6,data6)
qry7="insert into balance (acc_no, trans_Date, particular, Debit,
Credit,balance)values(%s,%s,%s,%s,%s,%s)"
data7=(ac_no1,dt,parti,debit_amount,credit,new_bal)
trans_cur.execute(qry7,data7)
myconn.commit()
```

Changes in table

```
mysql> select * from tbl_debit where acc_no=100;
+--------+------------+-------+-------+-------------+
| acc_no | trans_Date | trans | Debit | particulars |
+--------+------------+-------+-------+-------------+
|    100 | 2019-09-24 | Dr    |   500 | Cash        |
|    100 | 2019-09-24 | Dr    |   200 | caxh        |
|    100 | 2020-12-29 | Dr    |  5000 | Cash        |
+--------+------------+-------+-------+-------------+
3 rows in set (0.00 sec)
```

```
mysql> select * from balance where acc_no=100;
+--------+------------+-----------------+-------+--------+---------+
| acc_no | trans_Date | particular      | Debit | Credit | balance |
+--------+------------+-----------------+-------+--------+---------+
|    100 | 2019-09-24 | opening Balance |     0 |   2000 |    2000 |
|    100 | 2019-09-24 | cash            |     0 |   1000 |    3000 |
|    100 | 2019-09-24 | Cash            |     0 |    500 |    2500 |
|    100 | 2019-09-24 | caxh            |   200 |      0 |    2300 |
|    100 | 2020-12-29 | Cash            |     0 |  45000 |   47300 |
|    100 | 2020-12-29 | Cash            |  5000 |      0 |   42300 |
+--------+------------+-----------------+-------+--------+---------+
6 rows in set (0.00 sec)
```

When Press 4:

```
Enter Your Choice!.....4
Enter Account Number100
```

Data from tables

Account Number	Name of customer	Account Type
100	Mohan Kumar Singh	Saving

A\C	Transcation Date	Particulars	Credit Amount	Debit Amount	Balance Amount
100	2019-09-24	opening Balance	2000.0	0.0	2000.0
100	2019-09-24	cash	1000.0	0.0	3000.0
100	2019-09-24	Cash	500.0	0.0	2500.0
100	2019-09-24	caxh	0.0	200.0	2300.0
100	2020-12-29	Cash	45000.0	0.0	47300.0
100	2020-12-29	Cash	0.0	5000.0	42300.0

Print Data in DataFrame format

	A/C	Transcation Date	Parti	Credit	Debit	Balance
0	100	2019-09-24	opening Balance	0.0	2000.0	2000.0
1	100	2019-09-24	cash	0.0	1000.0	3000.0
2	100	2019-09-24	Cash	0.0	500.0	2500.0
3	100	2019-09-24	caxh	200.0	0.0	2300.0
4	100	2020-12-29	Cash	0.0	45000.0	47300.0
5	100	2020-12-29	Cash	5000.0	0.0	42300.0

When press 5:

```
Enter Your Choice!.....5
Update Customer Details
Enter Account Number1050
```

Data from table

```
A/C Customer Name
1050 | Ravindra Singh
```

Now update Customer Name

```
Enter Customer NameRavindra Singh Dev
Data update
```

Changes in table

```
mysql> select * from bank where acc_no=1050;
+--------+-------------------+-------------+--------+------------+----------------+
| acc_no | cust_name         | account_type | op_bal | op_date    | particulars    |
+--------+-------------------+-------------+--------+------------+----------------+
|   1050 | Ravindra Singh Dev | Saving      |  30000 | 2019-09-24 | opening Balance |
+--------+-------------------+-------------+--------+------------+----------------+
1 row in set (0.00 sec)
```

```
if choice==5:
    print("Update Customer Details")
    ac_no=int(input("Enter Account Number"))
    ac=ac_no
    v=(ac_no,)
    query_select="select * from bank where acc_no=%s"
    cur.execute(query_select,v)
    data=cur.fetchall()
```

```
        print("A/C","Customer Name ")
        for row in data:
            print(row[0],"|",row[1])
        table=pd.DataFrame(data)# print data in dataframe format
        print(table)
        na=input("Enter Customer Name")
        data1=(na,ac)
        qry_update="update bank set cust_name=%s where acc_no=%s"
        cur_update.execute(qry_update,data1)
        myconn.commit()
        print("Data update")
print("Thanks For Using Bank Management System")
```

8. How to Restore SQL File

To install a MySQL database from a dump file (***mybank.sql****), simply follow the following steps.*

Step 1: *Copy the sk.sql file in* ***C:\Program files\Mysql\MySql server 5.1\Bin*** *folder.*

Step 2: *Open MySQL and type the following command to create the dabase named Shopkeeper.*

mysql> create database bank1;

Step 3: *Open Command Window (Start ▸ Run ▸ cmd)*

Step 4: *Go to the following folder using CD command of DOS.*

C:\Program files\Mysql\MySql server 5.1\Bin>

Step 5: *type the following command on above prompt -*

C:….\bin> *mysql -u* ***root*** *–p sunilsir bank1 < mybank.sql*

This will create a shs databse with required tables.

8. Bibliography

In order to work on this project titled –Bank ***Management System*** the following Details of Bank material are refered by me during the various phases of development of the project.

(1) **http://www.mysql.org/**

(2) **http://www.python.org/**

(3) On-line Help of python

(4) Informatics Practices for class XII
-by Sumita Arora

(5) Various Websites of Discussion Forum and software development activities.

Other than the above-mentioned books, the suggestions and supervision of my teacher and my class experience also helped me to develop this software project.