HCL Bank Assignment

HclBank.java:

Package com.hcl.day27;

/\*\*

\*Day #27

\*

\*Topic: Core Java

\*

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\*

\*/

public class HclBank{

/\*\*

\*param args

\*/

private int accountNo;

private String name;

private float balanceAccount;

/\*\*

\*@param accountNo

\*@param name

\*@param balance

\*/

public HclBank(int accountNo, String name, float balanceAccount)

{

this.accountNo=accountNo;

this.name=name;

this.balanceAccount=balanceAccount;

}

public String getName()

{

return name;

}

public void setName(String name)

{

this.name= name;

}

public void getAccountNo

{

return accountNo;

}

public void setAccountNo(int accountNo)

{

this.accountNo=accountNo;

}

public float getBalance()

{

return balance;

}

public void setBalance(float balance)

{

this.balance=balance;

}

HclBankMain.java:

public class HclBankMain {

ArrayList<String> hclBanklist = new ArrayList<>();

static Connection connection = null;

{

try {

Class.forName("com.mysql.cj.jdbc.Driver");

connection = DriverManager.getConnection("jdbc:" +

"mysql://localhost:3306/mysql", "root", "gowthamanearth24");

}

catch (Exception e) {

System.out.println("Connection is not proper");

}

}

/\*\*

\* This takes the input from the user and prints results. Input: Enter

\* command:add Output: Account number:123456789 Name:Sathya Balance($):9450

\*

\* @param args

\* @throws ClassNotFoundException

\* @throws SQLException

\*/

public static void main(String[] args) throws Exception {

HclBankMain hclBankMain = new HclBankMain();

Scanner sc = new Scanner(System.in);

String command = null;

System.out.println("Welcome to HCL Bank Portal!\n");

do {

System.out.println("Enter the command:add/balance/quit");

command = sc.nextLine();

switch (command.toLowerCase()) {

case "add":

hclBankMain.add(sc);

sc.nextLine();

break;

case "balance":

hclBankMain.balance(sc);

sc.nextLine();

break;

case "quit":

System.out.println("Good bye!");

break;

default:

System.out.println("Sorry, but " + command + " is not a valid command. Please try again.\n");

}

} while (!command.contentEquals("quit"));

sc.close();

}

// This balance method is used to display the values.

private void balance(Scanner sc) {

try {

System.out.println("Enter Account Number:");

int accountNo = sc.nextInt();

DecimalFormat formatter = new DecimalFormat("#,###.00");

PreparedStatement st = connection.prepareStatement("select \* from HCLBank where accountnumber=?");

st.setInt(1, accountNo);

ResultSet rs = st.executeQuery();

if (rs.isBeforeFirst()) {

while (rs.next()) {

hclBanklist.add(rs.getLong(1) + "\t" + rs.getString(2) + "\t$" + formatter.format(rs.getFloat(3)));

}

for (String array : hclBanklist) {

System.out.println(array);

}

}

else {

System.out.println("No account exists for this account number");

}

rs.close();

st.close();

} catch (Exception e) {

System.out.println("Exception in balance" + e.getMessage());

}

}

// This add method calls inserHclBank method.

private boolean add(Scanner sc) {

Scanner sc1 = new Scanner(System.in);

try {

System.out.println("Account Number:");

int accountNo = sc.nextLong();

try {

PreparedStatement st = connection.prepareStatement("select \* from HCLBank where accountnumber=?");

st.setLong(1, accountNo);

ResultSet rs = st.executeQuery();

if (rs.isBeforeFirst()) {

System.out.println("The account Number already exists.");

}

else {

System.out.println(" Name:");

String name = sc1.nextLine();

System.out.println("Balance ($):");

try {

Float balance = sc.nextFloat();

insertHclBank(new HclBank(accountNo, name, balance));

rs.close();

}

catch (Exception e) {

System.out.println("Enter the correct balance($):");

}

}

}

catch (Exception e) {

System.out.println("Account Number is incorrect.");

}

}

catch (Exception e) {

System.out.println("Exception in add" + e.getMessage());

}

return true;

}

// This method insertHclBank insert the values into the table.

private void insertHclBank(HclBank hclBank) {

try {

PreparedStatement st = connection.prepareStatement("insert into HCLBank values(?,?,?)");

st.setLong(1, hclBank.getAccountno());

st.setString(2, hclBank.getName());

st.setFloat(3, hclBank.getBalance());

st.executeUpdate();

st.close();

}

catch (Exception e) {

System.out.println(e);

}

}