BankAccount.java

```
package org.bank;
import javax.persistence.DiscriminatorColumn;
import javax.persistence.DiscriminatorType;
import javax.persistence.DiscriminatorValue;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.ld;
import javax.persistence.Inheritance;
import javax.persistence.InheritanceType;
@Entity
@Inheritance(strategy = InheritanceType.SINGLE_TABLE)
@DiscriminatorColumn(name = "account", discriminatorType = DiscriminatorType.STRING)
@DiscriminatorValue("bank")
public class BankAccount {
@ld
@GeneratedValue
private long accountNumber;
private String account Holder;
private String address;
private long phone Number;
private String emailId;
protected double balance;
public BankAccount() {
super();
```

```
// TODO Auto-generated constructor stub
}
public BankAccount(long accountNumber, String accountHolder, String address,
long phone Number, String emailed,
double balance) {
super();
this.accountNumber = accountNumber;
this.accountHolder=accountHolder;
this.address = address;
this.phoneNumber=phoneNumber;
this.emailId = emailId;
this.balance = balance;
}
publiclong getAccountNumber() {
return accountNumber;
}
public void setAccountNumber(long accountNumber) {
this.accountNumber = accountNumber;
}
public String getAccountHolder() {
return accountHolder;
}
public void setAccountHolder(String accountHolder) {
this.accountHolder = accountHolder;
```

```
}
public String getAddress() {
return address;
}
public void setAddress(String address) {
this.address = address;
}
publiclong getPhoneNumber() {
return phone Number;
}
public void setPhoneNumber(long phoneNumber) {
this.phoneNumber=phoneNumber;
}
publicString getEmailId() {
return emailId;
publicvoid setEmailId(String emailId) {
this.emailId = emailId;
}
public double getBalance() {
return balance;
}
public void setBalance(double balance) {
this.balance = balance;
}
```

```
public Double withdraw(double amount) {
return this.balance - amount;
}
public Double deposit(double amount) {
return this.balance + amount;
Savings.java
package org.bank;
import javax.persistence.DiscriminatorValue;
import javax.persistence.Entity;
@Entity
@DiscriminatorValue("savings")
public class Savings extends BankAccount {
private static double maximumAmountTransfer = 100000;
private static int maximumNumberOfTransaction = 5;
private double amountTransferred;
private int numberOfTransaction;
public Savings() {
super();
// TODO Auto-generated constructor stub
}
public Savings (long account Number, String account Holder, String address, long
phoneNumber, String emailed,
```

```
double balance, double amountTransferred, int
numberOfTransaction) {
super(accountNumber, accountHolder, address, phoneNumber, emailId,
balance);
this.amountTransferred = amountTransferred;
this.numberOfTransaction = numberOfTransaction;
// TODO Auto-generated constructor stub
}
public static double getMaximumAmountTransfer(){
return maximumAmountTransfer;
}
public static void setMaximumAmountTransfer(double maximumAmountTransfer) {
Savings.maximumAmountTransfer = maximumAmountTransfer;
}
public static int getMaximumNumberOfTransaction() {
return maximumNumberOfTransaction;
}
public \, static \, void \, set Maximum Number Of Transaction (interpretation of the context of t
maximumNumberOfTransaction){
```

```
Savings.maximumNumberOfTransaction = maximumNumberOfTransaction;
}
public double getAmountTransferred() {
return amountTransferred;
}
public void setAmountTransferred(double amountTransferred) {
this.amountTransferred = amountTransferred;
}
public int getNumberOfTransaction() {
return numberOfTransaction;
public void setNumberOfTransaction(int numberOfTransaction) {
this.numberOfTransaction = numberOfTransaction;
}
@Override
public Double withdraw(double amount) {
if (maximumAmountTransfer <= 100000 && maximumNumberOfTransaction <= 5)</pre>
{
return super.withdraw(amount);
} else {
System.out.println("process cannot been done");
}
```

```
return amount;
}
@Override
public Double deposit(double amount) {
if (maximumAmountTransfer <= 100000 && maximumNumberOfTransaction <= 5)</pre>
{
return super.deposit(amount);
} else {
System.out.println("process cannot been done");
}
return amount;
}
}
Current.java
package org.bank;
import javax.persistence.DiscriminatorValue;
import javax.persistence.Entity;
@Entity
@DiscriminatorValue("current")
public class Current extends BankAccount {
private static double minimumAmountTransfer = 500000;
private static int minimumNoOfTransaction = 7;
private double amountTransferred;
```

```
private int NoOfTransactionHeld;
public Current() {
super();
// TODO Auto-generated constructor stub
}
public Current(long accountNumber, String accountHolder, String address, long
phoneNumber, String emailld,
double balance, double minimumAmountTransfer, int
minimumNoOfTransaction, double amountTransferred,
int NoOfTransactionHeld) {
super(accountNumber, accountHolder, address, phoneNumber, emailId,
balance);
// TODO Auto-generated constructor stub
}
public static double getMinimumAmountTransfer() {
return minimumAmountTransfer;
}
public static void setMinimumAmountTransfer(double minimumAmountTransfer) {
Current.minimumAmountTransfer = minimumAmountTransfer;
}
```

```
public static int getMinimumNoOfTransaction() {
return minimumNoOfTransaction;
}
public static void setMinimumNoOfTransaction(int minimumNoOfTransaction) {
Current.minimumNoOfTransaction = minimumNoOfTransaction;
public double getAmountTransferred() {
return amountTransferred;
}
public void setAmountTransferred(double amountTransferred) {
this.amountTransferred = amountTransferred;
}
public int getNoOfTransactionHeld() {
return NoOfTransactionHeld;
}
public void setNoOfTransactionHeld(int noOfTransactionHeld) {
NoOfTransactionHeld = noOfTransactionHeld;
}
@Override
public Double withdraw(double amount) {
if (minimumAmountTransfer <= 500000 && minimumNoOfTransaction <= 7) {
return super.withdraw(amount);
} else {
System.out.println("process cannot been done");
}
```

```
return amount;
}
@Override
public Double deposit(double amount) {
if (minimumAmountTransfer <= 500000 && minimumNoOfTransaction <= 7) {</pre>
return super.deposit(amount);
} else {
System.out.println("process cannot been done");
}
return amount;
package org.bank;
import java.io.BufferedReader;
Solution.java
import java.io.IOException;
import java.io.InputStreamReader;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
public class Solution {
public static void main (String[] args) throws NumberFormatException,
IOException {
SessionFactory sf = new
```

```
Configuration().configure().buildSessionFactory();
Session session = sf.openSession();
session.beginTransaction();
BufferedReader bf = new BufferedReader(new
InputStreamReader(System.in));
System.out.println("enter account number");
long accountNumber = Long.valueOf(bf.readLine());
System.out.println("enter account holder");
String accountHolder = bf.readLine();
System.out.println("enter address");
String address = bf.readLine();
System.out.println("enter phone number");
long phoneNumber = Long.valueOf(bf.readLine());
System.out.println("enter emailid");
String emailId = bf.readLine();
System.out.println("enter balance");
double balance = Double.valueOf(bf.readLine());
System.out.println("enter amount");
double amount = Double.valueOf(bf.readLine());
BankAccount bankaccount = new BankAccount(accountNumber, accountHolder,
address, phone Number, emailed, balance);
```

```
System.out.println("the deposited value is:" +
bankaccount.deposit(amount));
System.out.println("the withdrawed value is:" +
bankaccount.withdraw(amount));
System.out.println("enter amount transferd");
double amountTransferred = Double.valueOf(bf.readLine());
System.out.println("enter number of transaction");
int numberOfTransaction = Integer.valueOf(bf.readLine());
Savings savings = new Savings (accountNumber, accountHolder, address,
phone Number, emailed, balance,
amountTransferred, numberOfTransaction);
System.out.println("the deposited value is:" + savings.deposit(amount));
System.out.println("the withdrawed value is:" +
savings.withdraw(amount));
System.out.println("enter number of transaction held");
```

```
int noOfTransactionHeld = Integer.valueOf(bf.readLine());
Current current = new Current(accountNumber, accountHolder, address,
phoneNumber, emailed, balance,
amount Transferred, no Of Transaction Held, amount Transferred,\\
noOfTransactionHeld);
System.out.println("the deposited value is:" + current.deposit(amount));
System.out.println("the withdrawed value is:"+
current.withdraw(amount));
System.out.println(bankaccount.getAccountNumber());
System.out.println(bankaccount.getAddress());
System.out.println(bankaccount.getPhoneNumber());
System.out.println(bankaccount.getEmailId());
System.out.println(bankaccount.getBalance());
System.out.println(savings.getAmountTransferred());
System.out.println(savings.getNumberOfTransaction());
System.out.println(current.getAmountTransferred());
System.out.println(current.getNoOfTransactionHeld());
session.save(bankaccount);
```

```
session.save(savings);
session.save(current);
session.getTransaction().commit();
session.close();
}
Hibernate.cfg.xml
<?xml version='1.0' encoding='utf-8'?>
<!-- ~ Hibernate, Relational Persistence for Idiomatic Java ~ ~ License:
GNU Lesser General Public License (LGPL), version 2.1 or later. ~ See the
Igpl.txt file in the root directory or <a href="http://www.gnu.org/licenses/lgpl-">http://www.gnu.org/licenses/lgpl-</a>
2.1.html>. -->
<!DOCTYPE hibernate-configuration PUBLIC</p>
"-//Hibernate/Hibernate Configuration DTD 3.0//EN"
"http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">
<hibernate-configuration>
<session-factory>
<!-- Database connection settings -->
property
name="connection.driver_class">com.mysql.jdbc.Driver</property>
property
name="connection.url">jdbc:mysql://localhost:3306/sample</property>
```

```
connection.username">root
connection.password">
<!-- JDBC connection pool (use the built-in) -->
connection.pool_size">10/property>
<!-- SQL dialect -->
cproperty name="dialect">org.hibernate.dialect.MySQL5Dialect/property>
<!-- Disable the second-level cache -->
property
name="cache.provider_class">org.hibernate.cache.internal.NoCacheProvider</property>
<!-- Echo all executed SQL to stdout -->
cproperty name="show_sql">true
<!-- Drop and re-create the database schema on startup -->
cproperty name="hbm2ddl.auto">create/property>
<!-- Names the annotated entity class -->
<mapping class="org.bank.BankAccount"/>
<mapping class="org.bank.Savings"/>
<mapping class="org.bank.Current"/>
</session-factory>
</hibernate-configuration>
```