import java.sql.\*;

import java.util.\*;

class Inventory

{

String db\_path="jdbc:mysql://localhost:3306/admin";

void invent()

{

try

{

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

Connection con=DriverManager.getConnection(db\_path,"root","root");

Statement stmt=con.createStatement();

ResultSet rs=stmt.executeQuery("Select \* from inventory");

System.out.println("Item Name\tQuantity\tPrice");

while(rs.next())

{

String Item\_Name=rs.getString("Item\_Name");

int Quantity=rs.getInt("Quantity");

float Price=rs.getFloat("Price");

System.out.println(Item\_Name+"\t"+Quantity+"\t"+Price);

}

con.close();

}

catch(Exception e)

{

System.out.println("Ln27 Exception");

System.out.println(e);

}

}

}

class Add extends Inventory

{

public void insertrecord(String a,int b,float c) throws SQLException

{

Connection con=DriverManager.getConnection(db\_path,"root","root");

String sql = "INSERT INTO inventory values(?,?,?)";

PreparedStatement pstmt = con.prepareStatement(sql);

pstmt.setString(1, a);

pstmt.setInt(2, b);

pstmt.setFloat(3,c);

System.out.println("Item "+a+" of qty "+b+" and price "+c+" has been successfully added");

pstmt.executeUpdate();

con.close();

}

}

class Update extends Inventory

{

public void addquantity(String a,int b) throws SQLException

{

Connection con=DriverManager.getConnection(db\_path,"root","root");

String sql = "update inventory set Quantity=Quantity+? where Item\_Name=?";

PreparedStatement pstmt = con.prepareStatement(sql);

pstmt.setInt(1, b);

pstmt.setString(2, a);

System.out.println("Item quantity has been changed");

pstmt.executeUpdate();

con.close();

}

public void subquantity(String a,int b) throws SQLException

{

Connection con=DriverManager.getConnection(db\_path,"root","root");

String sql = "update inventory set Quantity=Quantity-? where Item\_Name=?";

PreparedStatement pstmt = con.prepareStatement(sql);

pstmt.setInt(1, b);

pstmt.setString(2, a);

System.out.println("Item quantity has been changed");

pstmt.executeUpdate();

con.close();

}

}

class Delete extends Inventory

{

public void deleterecord(String a) throws SQLException

{

Connection con=DriverManager.getConnection(db\_path,"root","root");

String sql = "delete from inventory where Item\_Name=?";

PreparedStatement pstmt = con.prepareStatement(sql);

pstmt.setString(1, a);

System.out.println("Item has been deleted from the record");

pstmt.executeUpdate();

con.close();

}

}

public class Admin

{

public static void main(String args[])

{

int i=0;

do

{

Scanner sc=new Scanner(System.in);

System.out.println("1.Inventory\n2.Update inventory");

System.out.println("Enter your choice:");

int x=sc.nextInt();

switch(x)

{

case 1:

{

System.out.println("-----------------------Inventory-----------------------");

Inventory obj=new Inventory();

obj.invent();

break;

}

case 2:

{

System.out.println("------------------------Update Inventory -------------------------");

System.out.println("Choose your Option:");

System.out.println("1.Add new Item\n2.Update quantity\n3.Delete item");

int y=sc.nextInt();

switch(y)

{

case 1:

{

System.out.println("Enter the Item name:");

String a=sc.next();

System.out.println("Enter the Quantity of the Item:");

int b=sc.nextInt();

System.out.println("Enter the price:");

float c=sc.nextFloat();

try{

Add obj=new Add();

obj.insertrecord(a, b, c);

}

catch(SQLException e)

{

System.out.println(e);

}

break;

}

case 2:

{

Update obj=new Update();

System.out.println("Enter the Item name:");

String a=sc.next();

System.out.println("Which action do you want to perform:");

System.out.println("1.Add quantity\n2.Subtract quantity");

int b=sc.nextInt();

System.out.println("Enter the quantity");

int c=sc.nextInt();

try

{

if(b==1)

{

obj.addquantity(a,c);

}

else

{

obj.subquantity(a,c);

}

}

catch(SQLException e)

{

System.out.println(e);

}

break;

}

case 3:

{

System.out.println("Enter the Item name which you want to delete from the inventory:");

String a=sc.next();

Delete obj=new Delete();

try

{

obj.deleterecord(a);

}

catch(SQLException e)

{

System.out.println(e);

}

break;

}

}

}

}

System.out.println("Do you want to-\n1.Continue\n2.Quit");

int terminate=sc.nextInt();

if(terminate==1)

{

continue;

}

else

{

i++;

}

sc.close();

}while(i==0);

}

}

import java.sql.\*;

import java.util.\*;

public class User extends Inventory

{

int disc=0;

// id is the mob no

public void recordChecker(String recordId)

{

try

{

Connection con = DriverManager.getConnection(db\_path, "root", "root");

String sql = "SELECT COUNT(\*) FROM users WHERE id = ?";

PreparedStatement pstmt = con.prepareStatement(sql);

pstmt.setString(1, recordId);

ResultSet rs = pstmt.executeQuery();

// Check if a record exists

if (rs.next() && rs.getInt(1) > 0)

{

System.out.println("Record with ID " + recordId + " exists.");

System.out.println("CONGRATS! previous users get a discount of 10%");

disc=10;

}

else

{

System.out.println("Record with ID " + recordId + " does not exist.");

disc=0;

}

// Close the resources

rs.close();

pstmt.close();

con.close();

}

catch (SQLException e)

{

e.printStackTrace();

}

}

public void displayMenu()

{

System.out.println("--------------MENU--------------");

int i=1;

try

{

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

Connection con=DriverManager.getConnection(db\_path,"root","root");

Statement stmt=con.createStatement();

ResultSet rs=stmt.executeQuery("Select \* from inventory");

System.out.println("SN\tItem Name\tPrice");

while(rs.next())

{

String Item\_Name=rs.getString("Item\_Name");

float Price=rs.getFloat("Price");

System.out.println(i+"\t"+Item\_Name+"\t"+Price);

i++;

}

con.close();

}

catch(Exception e)

{

System.out.println(e);

}

}

public boolean ordCheck(String item,int qty)

{

try

{

Connection con = DriverManager.getConnection(db\_path, "root", "root");

String sql = "SELECT COUNT(\*) FROM inventory WHERE Item\_Name = ?";

PreparedStatement pstmt = con.prepareStatement(sql);

pstmt.setString(1, item);

ResultSet rs = pstmt.executeQuery();

// Check if a record exists

if (rs.next() && rs.getInt(1) > 0)

{

System.out.println("Record with item " + item + " exists.");

String query = "select Quantity from inventory where Item\_Name=?";

PreparedStatement p = con.prepareStatement(query);

p.setString(1, item);

ResultSet r = p.executeQuery();

if(r.next() && r.getInt(1)>qty)

{

System.out.println("Order Initiated of "+item+" of Quantity "+qty);

return true;

}

}

else

{

System.out.println("Record with ID " + item + " does not exist.");

}

// Close the resources

rs.close();

pstmt.close();

con.close();

return true;

}

catch (SQLException e)

{

e.printStackTrace();

}

return false;

}

public float getPrice(String item, int qty) throws SQLException {

Connection con = DriverManager.getConnection(db\_path, "root", "root");

String query = "SELECT Price FROM inventory WHERE Item\_Name = ?";

PreparedStatement p = con.prepareStatement(query);

p.setString(1, item);

ResultSet r = p.executeQuery();

if (r.next()) { // Move the cursor to the first row

float price = r.getFloat("Price");

System.out.println("The Price of " + item + " is " + price);

return price;

}

// Handle the case when no records are found

System.out.println("No record found for item " + item);

return 0; // Return a default value or handle it accordingly in your code

}

public void insertBill(String item,int qty,float price) throws SQLException

{

Connection con=DriverManager.getConnection(db\_path,"root","root");

String sql = "INSERT INTO bill" + "VALUES(?,?,?)";

PreparedStatement pstmt = con.prepareStatement(sql);

pstmt.setString(1, item);

pstmt.setInt(2, qty);

pstmt.setFloat(3,price);

System.out.println("Item "+item+" of qty "+qty+" and price "+price+" has been successfully added to your bill");

pstmt.executeQuery();

con.close();

}

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("Hi!! Welcome to Cafe-0 of NCU");

System.out.println("Enter your 10 digit mobile number below");

String mob=sc.next();

User ob=new User();

ob.recordChecker(mob);

ob.displayMenu();

System.out.println("Enter the Item Name of your order");

System.out.println("Enter QUIT if your order is done");

String ordString=sc.next();

System.out.println("How many of it would you like");

int qty=sc.nextInt();

while(ordString.compareTo("QUIT")!=0) // will run as long as User will not enter QUIT

{

try

{

if(ob.ordCheck(ordString,qty)==true)

{

float price=ob.getPrice(ordString, qty);

ob.insertBill(ordString, qty,price);

}

}

catch (SQLException e)

{

e.printStackTrace();

}

break;

// System.out.println("Enter the Item Name of your order");

// System.out.println("Enter QUIT if your order is done");

// ordString=sc.next();

// System.out.println("How many of it would you like");

// qty=sc.nextInt();

}

sc.close();

}

}