Assignment 8

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TE1 31158

Database Connectivity:

Write a program to implement MySQL/Oracle database connectivity with any front end language to

implement Database navigation operations (add, delete, edit etc.)

import java.sql.\*;

import java.util.Scanner;

public class jdbc {

public static void main(String args[]) {

try {

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

Connection con =

DriverManager.getConnection("jdbc:mysql://10.10.13.97:3306/te31158\_db","te31158

","te31158");

Statement stmt = con.createStatement();

Scanner sc = new Scanner(System.in);

System.out.println("1.Insert\n2.Update\n3.Delete\n4.Display");

int choice = sc.nextInt();

switch (choice) {

case 1:

System.out.println("Enter number of Items: ");

int n = sc.nextInt();

sc.nextLine();

for (int i = 0; i < n; i++) {

System.out.print("Enter Product name: ");

String pname = sc.next();

System.out.print("Enter Price per unit: ");

int pu = sc.nextInt();

System.out.print("Enter Quantity: ");

int q = sc.nextInt();

int a=q\*pu;

System.out.print("Enter Date: ");

String d=sc.next();

String insertSql = "INSERT INTO Invoice

(Product\_name,UnitPrice,Quantity,Amount,InvoiceDate) VALUES (?, ?, ?, ?, ?)";

PreparedStatement pstmtInsert = con.prepareStatement(insertSql);

pstmtInsert.setString(1, pname);

pstmtInsert.setInt(2, pu);

pstmtInsert.setInt(3, q);

pstmtInsert.setInt(4, a);

pstmtInsert.setString(5, d);

pstmtInsert.executeUpdate();

}

System.out.println("Items added successfully.");

break;

case 2:

System.out.print("Enter Product name to update: ");

String name = sc.next();

sc.nextLine();

System.out.print("Enter new item name: ");

String uname = sc.next();

System.out.print("Enter Price per unit: ");

int punit = sc.nextInt();

System.out.print("Enter quantity: ");

int qty = sc.nextInt();

int amt=qty\*punit;

System.out.print("Enter date: ");

String dt = sc.next();

String updateQuery = "UPDATE Invoice SET Product\_name = ?,UnitPrice = ?,

Quantity = ?, Amount=?,InvoiceDate=? WHERE Product\_name=?";

PreparedStatement pstmtUpdate =

con.prepareStatement(updateQuery);

pstmtUpdate.setString(1, name);

pstmtUpdate.setInt(2, punit);

pstmtUpdate.setInt(3, qty);

pstmtUpdate.setInt(4, amt);

pstmtUpdate.setString(5, dt);

pstmtUpdate.setString(6, name);

pstmtUpdate.executeUpdate();

System.out.println("Item updated successfully.");

break;

case 3:

System.out.print("Enter item name to delete: ");

String pn = sc.next();

String deleteQuery = "DELETE FROM Invoice WHERE Product\_name = ?";

PreparedStatement pstmtDelete =

con.prepareStatement(deleteQuery);

pstmtDelete.setString(1,pn);

pstmtDelete.executeUpdate();

System.out.println("Item deleted successfully.");

break;

case 4:

ResultSet rs = stmt.executeQuery("SELECT \* FROM Invoice");

while(rs.next()) {

System.out.println(rs.getInt(1) +'\t' + rs.getString(2) + '\t' + rs.getInt(3) +

'\t' + rs.getInt(4) + '\t' + rs.getInt(5) + '\t' + rs.getString(6));

} break;

default:

System.out.println("Invalid choice");

}

con.close();

}

catch(ClassNotFoundException | SQLException e )

{

System.out.println(e);

}

}

}