//Q. Write java program to implement CRUD application with MySQL database.

import java.io.BufferedReader;

import java.io.IOException;

import java.io.InputStreamReader;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.util.Scanner;

public class Project {

public static void main(String[] args) throws ClassNotFoundException, SQLException, NumberFormatException, IOException {

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

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3307/product","root","root");

PreparedStatement st = con.prepareStatement("insert into cars values(?,?,?,?,?,?,?,?)");

BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

Scanner sc=new Scanner(System.in);

char ans;

do

{

System.out.println("1:Display Vehicle");

System.out.println("2:Insert Vehicle");

System.out.println("3:Update Vehicle");

System.out.println("4:Delete Vehicle");

System.out.println("5:Exit");

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

int ch = Integer.parseInt(br.readLine());

String address;

int Price;

int Mileage;

String name, Fuel\_Type;

int Sr\_No;

String Brand = null;

String Model;

int Seats;

int Engine;

switch(ch)

{

case 1:

System.out.println("Display operation:");

ResultSet rs=st.executeQuery("select\*from cars");

while(rs.next())

{

System.out.println(rs.getInt("Sr\_No")+"\t"+rs.getString("Brand")+"\t "+rs.getString("Model")+"\t"+rs.getInt("Price")+"\t "+rs.getString("Mileage")+"\t"+rs.getString("Fuel\_Type")+rs.getInt("Seats")+"\t "+rs.getInt("Engine")+"\t ");

}

break;

case 2:

System.out.println("Insert operation:");

System.out.println("How many vehicles you want to insert?");

int n=Integer.parseInt(br.readLine());

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

{

System.out.println("Enter Sr\_No");

Sr\_No = Integer.parseInt(br.readLine());

System.out.println("Enter Brand");

Brand= br.readLine();

System.out.println("Enter Model");

Model = br.readLine();

System.out.println("Enter Price");

Price = Integer.parseInt(br.readLine());

System.out.println("Enter Mileage");

Mileage = Integer.parseInt(br.readLine());

System.out.println("Enter Fuel\_Type");

Fuel\_Type = br.readLine();

System.out.println("Enter Seats");

Seats = Integer.parseInt(br.readLine());

System.out.println("Enter Engine");

Engine = Integer.parseInt(br.readLine());

st.setInt(1, Sr\_No);

st.setString(2, Brand);

st.setString(3, Model);

st.setInt(4, Price);

st.setInt(5, Mileage);

st.setString(6, Fuel\_Type);

st.setInt(7, Seats);

st.setInt(8, Engine);

st.executeUpdate();

System.out.println("Data is inserted successfully!!!");

System.out.println("THANK YOU");

}

break;

case 3:

System.out.println("Update Vehicle:");

System.out.println("Enter the Sr\_No which you want to update");

Sr\_No = Integer.parseInt(br.readLine());

System.out.println("What do you want to update?");

System.out.println("\n 1.Brand \n 2.Model \n 3.Price \n 4.Mileage\n 5.Fuel\_Type \n 7.Seats\n 8.Engine \n 9.Exit ");

System.out.println("Enter option for update : ");

int ch11=Integer.parseInt(br.readLine());

switch(ch11)

{

case 1:System.out.println("Enter Brand for update");

st.executeUpdate("update Cars set Brand='"+Brand+"' where Sr\_No="+Sr\_No);

Brand=br.readLine();

System.out.println("THE DATA HAS BEEN UPDATED SUCCESSFULLY!!");

break;

case 2:System.out.println("Enter Model for update");

Model = br.readLine();

st.executeUpdate("update Cars set Model='"+Model+"' where Sr\_No="+Sr\_No);

System.out.println("THE DATA HAS BEEN UPDATED SUCCESSFULLY!!");

break;

case 3:System.out.println("Enter Price for update");

Price = Integer.parseInt(br.readLine());

st.executeUpdate("update Cars set Price='"+Price+"' where Sr\_No="+Sr\_No);

System.out.println("THE DATA HAS BEEN UPDATED SUCCESSFULLY!!");

break;

case 4:System.out.println("Enter Mileage for update");

Mileage = Integer.parseInt(br.readLine());

st.executeUpdate("update Cars set Mileage='"+Mileage+"' where Sr\_No="+Sr\_No);

System.out.println("THE DATA HAS BEEN UPDATED SUCCESSFULLY!!");

break;

case 5:System.out.println("enter Fuel\_Type for update");

Fuel\_Type = br.readLine();

st.executeUpdate("update Cars set Fuel\_Type='"+Fuel\_Type+"' where Sr\_No="+Sr\_No);

System.out.println("THE DATA HAS BEEN UPDATED SUCCESSFULLY!!");

break;

case 6:System.out.println("enter Seats for update");

Seats = Integer.parseInt(br.readLine());

st.executeUpdate("update Cars set Seats='"+Seats+"' where Sr\_No="+Sr\_No);

System.out.println("THE DATA HAS BEEN UPDATED SUCCESSFULLY!!");

break;

case 7:System.out.println("enter Engine for update");

Engine = Integer.parseInt(br.readLine());

st.executeUpdate("update Cars set Engine='"+Engine+"' where Sr\_No="+Sr\_No);

System.out.println("THE DATA HAS BEEN UPDATED SUCCESSFULLY!!");

break;

case 8:

System.out.println("Exit");

break;

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

}

break;

case 4:

System.out.println("Delete Vehicle:");

System.out.println("Enter the Sr\_No which you want to delete ");

Sr\_No = Integer.parseInt(br.readLine());

st.executeUpdate("delete from Cars where Sr\_No="+Sr\_No);

System.out.println("THE DATA HAS BEEN DELETED SUCCESSFULLY !!");

break;

case 5:

System.out.println("exit");

break;

default:

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

break;

}

System.out.println("Do you want to try again ? y/n");

ans=sc.next().charAt(0);

}

while(ans=='y'||ans=='Y');

System.out.println("Thank You!");

con.close();

}

}

/\*First output:

Output to insert vehicle data:

Output to update data:

Output to delete data:

Exit:

\*/