package crud\_operation;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.Statement;

import java.util.\*

;public class CRUD\_Operation {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

CRUD\_Operation objTest=new CRUD\_Operation();

int n=sc.nextInt();

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

objTest.create\_data(sc.next(), sc.next(), sc.nextInt());

}

objTest.read\_data();

objTest.update\_data(101, 108, "sadhvika", 94);

objTest.read\_data();

String query = "ALTER TABLE student ADD location VARCHAR(40) default 'India'";

objTest.alter\_table(query);

objTest.read\_data();

objTest.delete\_data(105);

objTest.read\_data();

}

public void create\_data(String sl\_no,String name,int mark){

DB\_Connection obj\_DB\_Connection=new DB\_Connection();

Connection connection=obj\_DB\_Connection.get\_connection();

PreparedStatement ps=null;

try {

String query="insert into student values (?,?,?)";

ps=connection.prepareStatement(query);

ps.setString(1, sl\_no);

ps.setString(2, name);

ps.setInt(3, mark);

System.out.println(ps);

ps.executeUpdate();

} catch (Exception e) {

System.out.println(e);

}

}

public void read\_data() {

DB\_Connection obj\_DB\_Connection=new DB\_Connection();

Connection connection=obj\_DB\_Connection.get\_connection();

PreparedStatement ps=null;

ResultSet rs=null;

try {

String query="select \* from student";

ps=connection.prepareStatement(query);

System.out.println(ps);

rs=ps.executeQuery();

while(rs.next()) {

System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getInt(3)+" "+rs.getString(5));

}

} catch (Exception e) {

System.out.println(e);

}

}

public void update\_data(int sl\_no,int new\_sl\_no,String name,int mark) {

DB\_Connection obj\_DB\_Connection=new DB\_Connection();

Connection connection=obj\_DB\_Connection.get\_connection();

PreparedStatement ps=null;

try {

String query="update student set id=?,name=?,marks=? where id=?";

ps=connection.prepareStatement(query);

ps.setInt(1, new\_sl\_no);

ps.setString(2, name);

ps.setInt(3, mark);

ps.setInt(4, sl\_no);

System.out.println(ps);

ps.executeUpdate();

} catch (Exception e) {

System.out.println(e);

}

}

public void alter\_table(String alterQuery) {

DB\_Connection obj\_DB\_Connection = new DB\_Connection();

Connection connection = obj\_DB\_Connection.get\_connection();

Statement stmt = null;

try {

stmt = connection.createStatement();

stmt.executeUpdate(alterQuery);

System.out.println(alterQuery);

} catch (Exception e) {

System.out.println(e);

}

}

public void delete\_data(int sl\_no){

DB\_Connection obj\_DB\_Connection=new DB\_Connection();

Connection connection=obj\_DB\_Connection.get\_connection();

PreparedStatement ps=null;

try {

String query="delete from student where id=?";

ps=connection.prepareStatement(query);

ps.setInt(1, sl\_no);

System.out.println(ps);

ps.executeUpdate();

} catch (Exception e) {

System.out.println(e);

}

}

}