Create the necessary table in your respective database through DDL scripts with constraints.

Add view few data records through query window through SQL queries

Develop a java program to do meaningful transection using your DB.

**SOURCE-CODE**

**package** Pranav221047001;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.PreparedStatement;

**import** java.sql.ResultSet;

**import** java.util.Scanner;

**public** **class** Jdbcmain {

**static** Connection *connection*;

**public** **static** **void** main(String[] args)**throws** Exception {

/\* String connectionUrl = "jdbc:sqlserver://172.16.51.44;" +

"databaseName=221047001;integratedSecurity=false;user=Pranav;password=pranav#325";

connection = DriverManager.getConnection(connectionUrl);

String sql="create table Prod"+"(PID integer,Productname varchar(100),Productunitprice float,Quantities integer, PRIMARY KEY(PID))";

PreparedStatement preparedStatement=connection.prepareStatement(sql);

//Execute the query

int n=preparedStatement.executeUpdate();

if(n==1) {

System.out.println("table not created");

}

else {

System.out.println("table created");

}

preparedStatement.close();

connection.close();

\*/

Productimpl p=**new** Productimpl();

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("Enter your choice 1.insert 2.delete 3.display");

**int** n1=sc.nextInt();

**if**(n1==1) {

p.insertvalues();

}

**else** **if**(n1==2) {

p.deletevalues();

}

**else** **if**(n1==3) {

p.displayval();

}

}

}

**package** Pranav221047001;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.PreparedStatement;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**import** java.util.Scanner;

**class** Productimpl {

**static** Connection *connection*;

**void** insertvalues() **throws** SQLException, ClassNotFoundException

{

Scanner sc=**new** Scanner(System.***in***);

/\*Class.forName("jdbc:sqlserver://localhost:1433");//load the driver

Connection connection = DriverManager.getConnection("jdbc:h2:tcp://localhost/e:/MyDb/sachinproductdb","sachin","#sunil@10");\*/

String connectionUrl = "jdbc:sqlserver://172.16.51.44;" +

"databaseName=221047001;integratedSecurity=false;user=Pranav;password=pranav#325";

*connection* = DriverManager.*getConnection*(connectionUrl);

String sql="insert into Prod values (?,?,?,?)";

PreparedStatement preparedStatement=*connection*.prepareStatement(sql);

System.***out***.println("Enter PID");

**int** pid=sc.nextInt();

preparedStatement.setInt(1, pid);

System.***out***.println("Enter Product name");

String pname=sc.next();

preparedStatement.setString(2,pname);

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

**float** price=sc.nextFloat();

preparedStatement.setFloat(3,price);

System.***out***.println("Enter Quantity");

**int** quantity=sc.nextInt();

preparedStatement.setInt(4,quantity);

//Execute the query

**int** n=preparedStatement.executeUpdate();

**if**(n==1) {

System.***out***.println("record inserted");

}

**else** {

System.***out***.println("record not inserted");

}

//closing

preparedStatement.close();

*connection*.close();

}

**void** deletevalues() **throws** SQLException, ClassNotFoundException{

Scanner sc=**new** Scanner(System.***in***);

// **TODO** Auto-generated method stub

//Class.forName("org.h2.Driver");//load the driver

//make connection with DB

// Connection connection = DriverManager.getConnection("jdbc:h2:tcp://localhost/e:/MyDb/sachinproductdb","sachin","#sunil@10");

String connectionUrl = "jdbc:sqlserver://172.16.51.44;" +

"databaseName=221047001;integratedSecurity=false;user=Pranav;password=pranav#325";

*connection* = DriverManager.*getConnection*(connectionUrl);

String sql="Delete from Prod where PID=?";

PreparedStatement preparedStatement=*connection*.prepareStatement(sql);

System.***out***.println("Enter PID to delete Product");

**int** delpid=sc.nextInt();

preparedStatement.setInt(1,delpid);

**int** n=preparedStatement.executeUpdate();

**if**(n==1) {

System.***out***.println("deleted");

}

**else** {

System.***out***.println("not deleted");

}

preparedStatement.close();

*connection*.close();

}

**void** displayval() **throws** SQLException, ClassNotFoundException {

Scanner sc=**new** Scanner(System.***in***);

String connectionUrl = "jdbc:sqlserver://172.16.51.44;" +

"databaseName=221047001;integratedSecurity=false;user=Pranav;password=pranav#325";

*connection* = DriverManager.*getConnection*(connectionUrl);

String sql="Select \* from Prod";

PreparedStatement preparedStatement=*connection*.prepareStatement(sql);

ResultSet resultSet=preparedStatement.executeQuery();

**while**(resultSet.next()) {

System.***out***.println(resultSet.getInt("PID")+" "+resultSet.getString("Productname")+" "+resultSet.getFloat("Productunitprice")+" "+resultSet.getInt("Quantities"));

}

resultSet.close();

preparedStatement.close();

*connection*.close();

}

}

**OUTPUT:**

1. **Table in Database**



