Table definition

create table product(

pid number(5) primary key,

pname varchar2(10),

mrp number(5,2));

1. Create a Java Project
2. Set the class path to Ojdbc5.jar
3. Create the below folders
   1. com.sssit.product.controller
   2. com.sssit.product.service
   3. com.sssit.product.repository
   4. com.sssit.product.util
   5. com.sssit.product.pojo (POJO 🡪 Plain Old Java Object)
4. create a class and write the below code inside com.sssit.product.util package

**package** com.sssit.product.util;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.SQLException;

**public** **class** JDBCConnection {

**private** **static** Connection *con* = **null**;

**public** **static** **final** String ***URL*** = "jdbc:oracle:thin:@localhost:1521:orcl";

**public** **static** **final** String ***UNAME*** = "advdec23";

**public** **static** **final** String ***PASS*** = "advdec23";

**public** **static** Connection getConnection() {

**if**(*con*==**null**) {

**try** {

Class.*forName*("oracle.jdbc.driver.OracleDriver");

*con* = DriverManager.*getConnection*(***URL***, ***UNAME***, ***PASS***);

} **catch** (ClassNotFoundException e) {

System.***out***.println("Failed to Load Driver class...");

} **catch** (SQLException e) {

System.***out***.println("Failed to Establish connection...");

}

}

**return** *con*;

}

}

1. Write the code to perform curd operations inside com.sssit.product.repository package

**package** com.sssit.product.repository;

**import** java.sql.Connection;

**import** java.sql.PreparedStatement;

**import** com.sssit.product.util.JDBCConnection;

**public** **class** ProductRepository {

Connection con = **null**;

PreparedStatement pstmt = **null**;

**public** **int** insertProduct(**int** pid,String pname,**double** mrp) {

**try**

{

con=JDBCConnection.*getConnection*();

**final** String SQLQuery = "insert into product values(?,?,?)";

pstmt = con.prepareStatement(SQLQuery);

pstmt.setInt(1, pid);

pstmt.setString(2, pname);

pstmt.setDouble(3,mrp);

**return** pstmt.executeUpdate();

}

**catch** (Exception e) {

// **TODO**: handle exception

}

**return** 0;

}

}

1. Create a class called Product Management in com.sssit.product.controller and write the below code

**package** com.sssit.product.controller;

**import** java.util.Scanner;

**import** com.sssit.product.repository.ProductRepository;

**public** **class** ProductManagement {

**static** Scanner *ip* = **new** Scanner(System.***in***);

**static** ProductRepository *productRepository* = **new** ProductRepository();

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

**char** ch =' ';

**do**

{

System.***out***.println("1. Insert New Product");

System.***out***.println("2. Update MRP by Id");

System.***out***.println("3. Remove Product By Id");

System.***out***.println("4. Retreive all Products");

System.***out***.println("5. Retrieve Product By Id");

System.***out***.println("6. Exit");

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

**int** option = *ip*.nextInt();

**switch**(option) {

**case** 1:

*addNewProduct*();

**break**;

}

System.***out***.println("Do you want to continue....");

ch = *ip*.next().charAt(0);

}**while**(ch=='y');

}

**public** **static** **void** addNewProduct() {

System.***out***.println("Enter Product Id?");

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

System.***out***.println("Enter Product Name?");

String pname = *ip*.next();

System.***out***.println("Enter Product MRP?");

**double** mrp = *ip*.nextDouble();

**int** result = *productRepository*.insertProduct(pid, pname, mrp);

**if**(result==0)

System.***out***.println("Failed to Insert the data");

**else**

System.***out***.println("Inserted Successfully....");

}

}