

Name: Nandeesh N

Project: Retrieving the Product Details Using the Product ID

Screenshots:

The screenshot displays the Eclipse IDE interface. The top editor shows a SQL script with the following content:

```
1 • create database project;
2 • use project;
3 • create table product (
4     products_ID INT NOT NULL,
5     product_name VARCHAR(50) NOT NULL,
6     qty INT NOT NULL);
7
8 • INSERT INTO product value(1,"book",10);
9 • INSERT INTO product value(2,"Bat",50);
10 • INSERT INTO product value(3,"pen",20);
11
12
```

Below the editor is the 'Output' window, which contains a table of execution results:

#	Time	Action	Message	Duration / Fetch
2	17:31:41	use project	0 row(s) affected	0.000 sec
3	17:31:41	create table products (products_ID INT NOT NULL, product_name VARCHAR(50) NOT NULL, qty INT NOT NULL);	0 row(s) affected	0.031 sec
4	17:35:07	create database project	Error Code: 1007. Can't create database 'project'; database exists	0.000 sec
5	17:35:23	INSERT INTO products value(3,"pen",20)	1 row(s) affected	0.000 sec

The bottom editor shows the Java code for 'LessonEndProject.java':

```
1 package jdbcPrograms;
2
3 import java.sql.Connection;
4 import java.sql.DriverManager;
5 import java.sql.ResultSet;
6 import java.sql.SQLException;
7 import java.sql.Statement;
8
9 public class LessonEndProject {
10
11     // TODO Auto-generated method stub
12     String dbURL = "jdbc:mysql://localhost:3306/project";
13     String username = "root";
14     String password = "root";
15     String query1 = "insert into product value(5,'laptop',10)";
16     String query2 = "update product set product_id='001' where product_name='Books'";
17     String query3 = "select * from product where product_id = 5";
18
19     Class.forName("com.mysql.cj.jdbc.Driver");
20
21     Connection con = DriverManager.getConnection(dbURL, username, password);
22
23     Statement stmt = con.createStatement();
24     stmt.executeUpdate(query1);
25
26     stmt.executeUpdate(query2);
27
28 }
```

The console window at the bottom shows the following output:

```
<terminated> C:\Users\thishp2\pools\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.9.v20231028-0858\jre\bin\javaw.exe (04-Jan-2024, 5:26:22 pm) [pid: 16604]
[INFO] BUILD SUCCESS
[INFO] Total time: 5.468 s
[INFO] Finished at: 2024-01-04T17:26:30+05:30
[INFO]
```