

Practical :2

Name	Null?	Type
PRODUCT_ID		VARCHAR2(8)
PRODUCT_NAME		VARCHAR2(30)
CATEGORY		VARCHAR2(4)
COST_PRICE		NUMBER(6,2)
SELL_PRICE		NUMBER(6,2)
WEIGHT		NUMBER(4,2)
SHIPPING_CHARGE		NUMBER(5,2)
MANUFACTURER		VARCHAR2(20)
SUPPLIER		VARCHAR2(10)

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;

public class Practical_2 {

    private static final String URL = "jdbc:mysql://localhost:3306/rtmnu";
    private static final String USER = "root";
    private static final String PASSWORD = "pass123";

    public static void main(String[] args) {
        Connection connection = null;
        Statement statement = null;

        try {

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

            connection = DriverManager.getConnection(URL, USER, PASSWORD);

            statement = connection.createStatement();

            String createTableSQL = "CREATE TABLE IF NOT EXISTS
Product_Details_2 ("
                + "PRODUCT_ID VARCHAR(8) PRIMARY KEY,"
                + "PRODUCT_NAME VARCHAR(30),"
                + "CATEGORY VARCHAR(30),"
                + "COST_PRICE DECIMAL(6,2),"
                + "SELL_PRICE DECIMAL(6,2),"
                + "WEIGHT DECIMAL(6,2),"
                + "SHIPPING_CHARGE DECIMAL(4,2),"
            );
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

```

        + "MANUFACTURER VARCHAR(20),"
        + "SUPPLIER VARCHAR(10)"
        + ");";

        statement.executeUpdate(createTableSQL);
        System.out.println("Table Product_Details created
successfully.");

        String insertDataSQL = "INSERT INTO Product_Details_2
(PRODUCT_ID, PRODUCT_NAME, CATEGORY, COST_PRICE, SELL_PRICE, WEIGHT,
SHIPPING_CHARGE, MANUFACTURER, SUPPLIER)"
        + " VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?)";

        PreparedStatement preparedStatement =
connection.prepareStatement(insertDataSQL);

        preparedStatement.setString(1, "P1234567");
        preparedStatement.setString(2, "Laptop");
        preparedStatement.setString(3, "Electronics");
        preparedStatement.setDouble(4, 5000.00);
        preparedStatement.setDouble(5, 5500.00);
        preparedStatement.setDouble(6, 1.50);
        preparedStatement.setDouble(7, 30.00);
        preparedStatement.setString(8, "Dell");
        preparedStatement.setString(9, "ABC Corp");

        preparedStatement.executeUpdate();
        System.out.println("Data inserted successfully.");

        String selectQuery = "SELECT * FROM Product_Details_2";
        ResultSet resultSet = statement.executeQuery(selectQuery);

        System.out.println("\nProduct Details Table:");
        System.out.printf("%-10s %-15s %-15s %-10s %-10s %-10s %-15s %-
15s %-10s\n",
            "PRODUCT_ID", "PRODUCT_NAME", "CATEGORY", "COST_PRICE",
"SELL_PRICE",
            "WEIGHT", "SHIPPING_CHARGE", "MANUFACTURER", "SUPPLIER");
        System.out.println("-----");

        while (resultSet.next()) {
            System.out.printf("%-10s %-15s %-15s %-10.2f %-10.2f %-10.2f
%-15.2f %-15s %-10s\n",
                resultSet.getString("PRODUCT_ID"),
                resultSet.getString("PRODUCT_NAME"),
                resultSet.getString("CATEGORY"),
                resultSet.getDouble("COST_PRICE"),
                resultSet.getDouble("SELL_PRICE"),
                resultSet.getDouble("WEIGHT"),
                resultSet.getDouble("SHIPPING_CHARGE"),
                resultSet.getString("MANUFACTURER"),
                resultSet.getString("SUPPLIER"));
        }

```

```

    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        try {
            if (statement != null) {
                statement.close();
            }
            if (connection != null) {
                connection.close();
            }
        } catch (Exception ex) {
            ex.printStackTrace();
        }
    }
}
}

```

Output:

The screenshot shows the IntelliJ IDEA IDE with a project named 'Kunal_Ekare'. The file 'Practical2.java' is open, showing a Java class with a 'main' method. The code creates a table named 'Product_Details_2' and inserts a single record. The Run console shows the output of the program, including the SQL queries and the resulting table data.

```

public class Practical2 {
    public static void main(String[] args) {
        // SQL query to create the Product_Details table
        String createTableSQL = "CREATE TABLE IF NOT EXISTS Product_Details_2 ("
            + "PRODUCT_ID VARCHAR(8) PRIMARY KEY,"
            + "PRODUCT_NAME VARCHAR(30),"
            + "CATEGORY VARCHAR(30),"
            + "COST_PRICE DECIMAL(6,2),"
            + "SELL_PRICE DECIMAL(6,2),"
            + "WEIGHT DECIMAL(6,2),"
            + "SHIPPING_CHARGE DECIMAL(4,2),"
            + "MANUFACTURER VARCHAR(20),"
            + "SUPPLIER VARCHAR(10)"
            + ")";
    }
}

```

Run Practical2

```

"C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.3.1.1\lib\idea_rt.jar=50935:C:\Program Files\JetBrains\
Table Product_Details created successfully.
Data inserted successfully.

```

PRODUCT_ID	PRODUCT_NAME	CATEGORY	COST_PRICE	SELL_PRICE	WEIGHT	SHIPPING_CHARGE	MANUFACTURER	SUPPLIER
P1234567	Laptop	Electronics	5000.00	5500.00	1.50	30.00	Dell	ABC Corp

Process finished with exit code 0

In MySql: Changes

```
mysql> show databases;
```

Database
college
college_1
college_2
college_3
college_4
college_5
college_demo
college_demo1
company
information_schema
kunaldb
mysql
payment
performance_schema
rtmnu
rtmnu_1
sys
testdb
think_ans
xyz_company

```
20 rows in set (0.02 sec)
```

```
mysql> use rtmnu;
```

```
Database changed
```

```
mysql> select * from Product_Details_2;
```

PRODUCT_ID	PRODUCT_NAME	CATEGORY	COST_PRICE	SELL_PRICE	WEIGHT	SHIPPING_CHARGE	MANUFACTURER	SUPPLIER
P1234567	Laptop	Electronics	5000.00	5500.00	1.50	30.00	Dell	ABC Corp

```
1 row in set (0.01 sec)
```

```
mysql> |
```

*Main.java is Attached on Google classroom.