**Lab 9**

2. Create a Java program using JDBC to insert a new product into the Products table and then implement a trigger in the database that updates the LastModified timestamp in the Product\_Metadata table whenever a product is added or modified.

import java.sql.\*;

public class ProductInsertion {

public static void main(String[] args) {
Stringurl="jdbc:mysql://localhost:3306/your\_database\_name";

String user = "Brindha”;

String password = "B073";

String insertQuery = "INSERT INTO Products (productName, price) VALUES (?, ?)";

try (Connection conn = DriverManager.getConnection(url, user, password);

PreparedStatement preparedStatement = conn.prepareStatement(insertQuery)) {

Set parameters for the new product preparedStatement.setString(1, "New Product Name");

preparedStatement.setDouble(2, 10.99);

int rowsAffected

=preparedStatement.executeUpdate();

if (rowsAffected > 0) { System.out.println("New product inserted successfully!");

} else {

System.out.println("Failed to insert new product.");

}

} catch (SQLException e) { e.printStackTrace();

}

}

}

CREATE TRIGGER update\_metadata\_timestamp

AFTER INSERT ON Products

FOR EACH ROW

BEGIN

UPDATE Product\_Metadata

SET LastModified = NOW()

WHERE ProductID = NEW.ProductID;

END;