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import java.sql.*;

public class Main {
    // Database connection parameters
    private static final String jdbcUrl = "jdbc:mysql://localhost:3306/test1";
    private static final String username = "root";
    private static final String password = "Kunal@123";

    public static void main(String[] args) {
        try (Connection connection = DriverManager.getConnection(jdbcUrl,
            username, password)) {
            if (connection != null) {
                System.out.println("Connected to the database!  ");

                // Create table
                createTable(connection);

                // Insert data
                int insertedId = insertData(connection, "John", "Doe");

                // Read data
                readData(connection);

                // Update data
                updateData(connection, insertedId, "Jane", "Smith");

                // Read updated data
                readData(connection);

                // Delete data
                deleteData(connection, insertedId);

                insertedId = insertData(connection, "John", "Wick");
                // Read data after deletion
                readData(connection);
            } else {
                System.out.println("Failed to connect to the database.  ");
            }
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }

    // Create a table
    private static void createTable(Connection connection) throws SQLException {
        String createTableSQL = "CREATE TABLE IF NOT EXISTS users (id INT
            AUTO_INCREMENT
            PRIMARY KEY, " +
            "first_name VARCHAR(50), last_name VARCHAR(50))";
        try (PreparedStatement statement =
            connection.prepareStatement(createTableSQL)) {
            statement.execute();
            System.out.println("Table 'users' created.  ");
        }
    }

    // Insert data into the table
    private static int insertData(Connection connection, String firstName, String
        lastName) throws SQLException {
        String insertSQL = "INSERT INTO users (first_name, last_name) VALUES
            (?, ?)";
    }
}

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        try (PreparedStatement statement = connection.prepareStatement(insertSQL,
            PreparedStatement.RETURN_GENERATED_KEYS)) {
            statement.setString(1, firstName);
            statement.setString(2, lastName);
            statement.executeUpdate();

            ResultSet generatedKeys = statement.getGeneratedKeys();
            if (generatedKeys.next()) {
                int id = generatedKeys.getInt(1);
                System.out.println("Data inserted with ID: " + id + " ");
                return id;
            }
            return -1;
        }
    }
}

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// Read data from the table
private static void readData(Connection connection) throws SQLException {
    String selectSQL = "SELECT id, first_name, last_name FROM users";
    try (PreparedStatement statement =
        connection.prepareStatement(selectSQL);
        ResultSet resultSet = statement.executeQuery()) {
        System.out.println("User Data:");
        while (resultSet.next()) {
            int id = resultSet.getInt("id");
            String firstName = resultSet.getString("first_name");
            String lastName = resultSet.getString("last_name");
            System.out.println("ID: " + id + ", Name: " + firstName + " " +
                lastName);
        }
    }
}

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// Update data in the table
private static void updateData(Connection connection, int id, String
    newFirstName,
    String newLastName) throws SQLException {
    String updateSQL = "UPDATE users SET first_name = ?, last_name = ? WHERE
        id = ?";
    try (PreparedStatement statement =
        connection.prepareStatement(updateSQL)) {
        statement.setString(1, newFirstName);
        statement.setString(2, newLastName);
        statement.setInt(3, id);
        statement.executeUpdate();
        System.out.println("Data updated for ID: " + id + " ");
    }
}

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// Delete data from the table
private static void deleteData(Connection connection, int id) throws
    SQLException {
    String deleteSQL = "DELETE FROM users WHERE id = ?";
    try (PreparedStatement statement =
        connection.prepareStatement(deleteSQL)) {
        statement.setInt(1, id);
        statement.executeUpdate();
        System.out.println("Data deleted for ID: " + id + " ");
    }
}
}

```

Output

Connected to the database!

Table 'users' created.

Data inserted with ID: 2

User Data:

ID: 2, Name: John Doe

Data updated for ID: 2

User Data:

ID: 2, Name: Jane Smith

Data deleted for ID: 2

Data inserted with ID: 3

User Data:

ID: 3, Name: John Wick

Process finished with exit code 0