

# JDBC - BATCHING WITH STATEMENT OBJECT

<http://www.tutorialspoint.com/jdbc/statement-batching-example.htm>

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Here is a typical sequence of steps to use Batch Processing with Statement Object –

1. Create a Statement object using either *createStatement* methods.
2. Set auto-commit to false using *setAutoCommit*.
3. Add as many as SQL statements you like into batch using *addBatch* method on created statement object.
4. Execute all the SQL statements using *executeBatch* method on created statement object.
5. Finally, commit all the changes using *commit* method.

This sample code has been written based on the environment and database setup done in the previous chapters.

Copy and past the following example in JDBCExample.java, compile and run as follows –

```
// Import required packages
import java.sql.*;

public class JDBCExample {
    // JDBC driver name and database URL
    static final String JDBC_DRIVER = "com.mysql.jdbc.Driver";
    static final String DB_URL = "jdbc:mysql://localhost/EMP";

    // Database credentials
    static final String USER = "username";
    static final String PASS = "password";

    public static void main(String[] args) {
        Connection conn = null;
        Statement stmt = null;
        try{
            // Register JDBC driver
            Class.forName("com.mysql.jdbc.Driver");

            // Open a connection
            System.out.println("Connecting to database...");
            conn = DriverManager.getConnection(DB_URL,USER,PASS);

            // Create statement
            System.out.println("Creating statement...");
            stmt = conn.createStatement();

            // Set auto-commit to false
            conn.setAutoCommit(false);

            // First, let us select all the records and display them.
            printRows( stmt );

            // Create SQL statement
            String SQL = "INSERT INTO Employees (id, first, last, age) " +
                "VALUES(200,'Zia', 'Ali', 30)";
            // Add above SQL statement in the batch.
            stmt.addBatch(SQL);

            // Create one more SQL statement
            SQL = "INSERT INTO Employees (id, first, last, age) " +
                "VALUES(201,'Raj', 'Kumar', 35)";
            // Add above SQL statement in the batch.
            stmt.addBatch(SQL);
```



When you run **JDBCExample**, it produces the following result –

```
C:\>java JDBCExample
Connecting to database...
Creating statement...
Displaying available rows...
ID: 95, Age: 20, First: Sima, Last: Chug
ID: 100, Age: 18, First: Zara, Last: Ali
ID: 101, Age: 25, First: Mahnaz, Last: Fatma
ID: 102, Age: 30, First: Zaid, Last: Khan
ID: 103, Age: 30, First: Sumit, Last: Mittal
ID: 110, Age: 20, First: Sima, Last: Chug

Displaying available rows...
ID: 95, Age: 20, First: Sima, Last: Chug
ID: 100, Age: 35, First: Zara, Last: Ali
ID: 101, Age: 25, First: Mahnaz, Last: Fatma
ID: 102, Age: 30, First: Zaid, Last: Khan
ID: 103, Age: 30, First: Sumit, Last: Mittal
ID: 110, Age: 20, First: Sima, Last: Chug
ID: 200, Age: 30, First: Zia, Last: Ali
ID: 201, Age: 35, First: Raj, Last: Kumar
Goodbye!
C:\>
```

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