

# Welcome to Scriptella ETL Project

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## 1 About Scriptella

Scriptella is an open source ETL (Extract-Transform-Load) and script execution tool written in Java. Our primary focus is simplicity. You don't have to study yet another complex XML-based language - use SQL (or other scripting language suitable for the data source) to perform required transformations.

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## 2 Typical use

- Executing scripts written in SQL, JavaScript, JEXL, Velocity and [many more](#).
- Database migration. Interoperability with LDAP, JDBC, XML and other datasources.
- Cross-database ETL operations, import/export from/to CSV, text and XML and other formats.
- Alternative for Ant <sql> task.
- Automated database schema upgrade.

## 3 Features

- **Simple XML syntax** for scripts. Add dynamics to your existing SQL scripts by creating a thin wrapper XML file:

```
<!DOCTYPE etl SYSTEM "http://scriptella.org/dtd/etl.dtd">
<etl>
  <connection driver="$driver" url="$url" user="$user" password="$password"/>
  <script>
    <include href="PATH_TO_YOUR_SCRIPT.sql"/>
    -- And/or directly insert SQL statements here
  </script>
</etl>
```

- Work with **multiple datasources** in a single ETL file. See example of [copying a table to another database](#).
- Support for many useful **JDBC features** like [batching](#), prepared statements and parameters in SQL including [references to files\(BLOBs\)](#) and JDBC escaping.
- **Performance**. Performance and low memory usage are one of our primary goals.
- Support for **evaluated expressions and properties** (based on [JEXL syntax](#)). Example of using a JEXL expression to concatenate NAME and SURNAME columns from another datasource:

```
INSERT INTO TARGET_TABLE(ID, FULL_NAME) VALUES (?ID, ?{NAME+' '+SURNAME});
```

- Support for **cross-database ETL scripts** by using [<dialect>](#) elements
- **Transactional execution**. Changes are rolled back if a failure occurs while running the ETL.
- **Flexible error handling** by using [<onerror>](#) elements
- **Conditional scripts/queries execution** (similar to Ant if/unless attributes but more powerful)
- **Easy-to-Use** as a standalone tool or Ant task. No deployment/installation required.
- **Easy-To-Run** ETL files directly from [Java code](#).
- **Built-in adapters** for popular [databases](#) for a tight integration. Support for any database with JDBC/ODBC compliant driver.
- **Service Provider Interface (SPI)** for interoperability with non-JDBC DataSources and scripting languages. Out of the box [support for JSR 223 \(Scripting for the Java™ Platform\)](#) compatible languages.

- Built-In [CSV](#), [Excel](#), [Text](#), [XML](#), [LDAP](#), [Lucene](#), [Velocity](#), [JEXL](#) and [Janino](#) providers. Integration with Java EE, [Spring Framework](#), [JMX](#) , [JNDI](#) and [JavaMail](#) for **enterprise ready** scripts.

## 4 News

### 4.1 Scriptella 1.1 Released (December 28, 2012)

Scriptella 1.1 has been released and available for [download](#). The following features and bug-fixes were added:

- JEXL 2.0 Support
- [Flexible parsing/formatting rules for text/csv drivers](#)
- StringIndexOutOfBoundsException when parsing SQL statements with ternary expressions
- Add support for batch execution
- Detection of missing query.next calls in JavaScript/JEXL query elements

[Maven artifacts have been published.](#)

See [change log](#) for additional details.

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