Two Minute Tutorial

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1 Installation

- Download Scriptella binary distribution.
- Unpack it and add a <SCRIPTELLA_DIR>/bin to a system PATH variable.

Use set PATH=%PATH%; SCRIPTELLA_DIR\bin for Windows and export PATH= \${PATH}: SCRIPTELLA_DIR/bin for Unix.

- Check if JRE has been installed correctly by running java -version.
- Optional step: Put JDBC drivers required by your scripts to <SCRIPTELLA_DIR>/lib directory or directly specify classpath attribute in script connection elements.

2 Use Scriptella as Ant Task

In order to use Scriptella as Ant task you will need the following taskdef declaration:

```
<taskdef resource="antscriptella.properties" classpath="/path/to/
scriptella.jar[;additional_drivers.jar]"/>
```

Note:

Additional drivers classpath entries are optional. You may directly specify classpath attribute in a connection XML element declaration. Example:

```
<connection driver="sybase" classpath="jconn3.jar"/>
```

Running Scriptella files from Ant is simple:

```
<etl/> <!-- Execute etl.xml file in the current directory -->
```

or

```
<etl file="path/to/your/file/> <!-- Execute ETL file from specified location -->
```

3 Command-Line Execution

Just type scriptella to run the file named etl.xml in the current directory. Alternatively you can use java launcher:

```
java -jar scriptella.jar [arguments]
```

4 Executing ETL Files from Java

It is extremely easy to run Scriptella ETL files from java code. Just make sure scriptella.jar is on classpath and use any of the following methods to execute an ETL file:

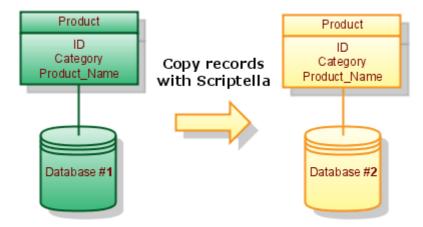
```
EtlExecutor.newExecutor(new File("etl.xml")).execute(); //Execute etl.xml file
EtlExecutor.newExecutor(getClass().getResource("etl.xml")).execute(); //Execute etl.xml file loaded
from classpath
EtlExecutor.newExecutor(
    servletContext.getResource("/WEB-INF/db/init.etl.xml")).execute(); //Execute init.etl.xml file
from web application WEB-INF directory
```

See EtlExecutor Javadoc for more details on how to execute ETL files from Java code.

5 Examples

For a quick start type scriptella -t to create a template etl.xml file.

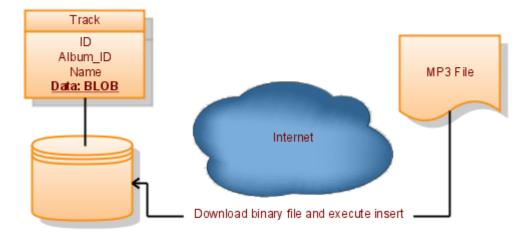
5.1 Copy table to another database



Assume Database #1 contains Table Product with id, category and name columns. The following script copies software products from this table to Database #2. Additionally Name column is changed to Product Name.

etl.xml:

5.2 Working with BLOBs



The following sample initializes table of music tracks. Each track has a DATA field containing a file loaded from an external location. File song1.mp3 is stored in the same directory as etl.xml and song2.mp3 is loaded through the web.

etl.xml:

```
<etl>
    <connection url="jdbc:hsqldb:file:tracks" user="sa" password=""/>
    <script>
        CREATE TABLE Track (
         ID INT,
          ALBUM_ID INT,
         NAME VARCHAR(100),
         DATA LONGVARBINARY
        <!-- Inserts file with path relative to executed script location -->
        insert into Track(id, album_id, name, data) values
               (1, 1, 'Song1.mp3', ?{file 'song1.mp3'});
        <!-- Inserts file from URL-->
        insert into Track(id, album_id, name, data) values
              (2, 2, 'Song2.mp3', ?{file 'http://musicstoresample.com/song2.mp3'});
    </script>
</etl>
```

5.3 Supporting several SQL dialects

<dialect> element allows including vendor specific content. The following example creates database schema for Oracle/HSQLDB or MySql depending on a selected driver:

```
<etl>
    cproperties><!-- Load external properties -->
        <include href="etl.properties"/>
    </properties>
    <connection url="$url" user="$user"</pre>
       password="$password" classpath="$classpath"/>
    <script>
        -- In this example dialects are used to
        -- include different DDLs for data types:
        -- Example: oracle-schema.sql for Oracle
        <dialect name="hsql"> <!-- Regular expressions syntax supported-->
           <include href="hsqldb-schema.sql"/>
        </dialect>
        <dialect name="oracle">
            <include href="oracle-schema.sql"/>
        </dialect>
        <dialect name="mysql">
            <include href="mysql-schema.sql"/>
        </dialect>
         -- SQL92 inserts - no need to use dialects
        INSERT INTO Product(id, category, product_name)
            VALUES (1, 'ETL', 'Scriptella ETL');
        INSERT INTO Product(id, category, product_name)
           VALUES (2, 'Development', 'Java SE 6');
     </script>
</etl>
```

Note:

See Scriptella examples on GitHub or download Scriptella examples distribution.