

# GroovyWithSQLDatabaseAccess

## Groovy with SQL Database access

### how to use Groovy with SQL database access ?

To illustrate how its working let's have a look at the following example :

**With XSP, to display a football list players from my database i do this**

```
<esql:connection>
<esql:pool>foot</esql:pool>
<esql:execute-query>
  <esql:query>SELECT * FROM m_player </esql:query>
  <esql:results>
    <esql:row-results>
      <player>
        <id_player><esql:get-int column="id_player"/></id_player>
        <player_name><esql:get-string column="player_name"/></player_name>
        <player_birth><xsp:expr><esql:get-string column="player_birth"/></xsp:expr></player_birth>
        <player_town><esql:get-string column="player_town"/></player_town>
        <player_size><esql:get-string column="player_size"/></player_size>
        <player_weight><esql:get-string column="player_weight"/></player_weight>
        <player_start><esql:get-string column="player_start"/></player_start>
        <player_photo><esql:get-string column="player_photo"/></player_photo>
        <player_position><esql:get-string column="player_position"/></player_position>
        <id_club><esql:get-string column="id_club"/></id_club>
      </player>
    </esql:row-results>
  </esql:results>
</esql:execute-query>
</esql:connection>
```

**Now with Groovy i just have to do this**

```

import groovy.sql.Sql
// Generate XML using the (way cool) GroovyMarkup syntax
import groovy.xml.SAXBuilder

sql = Sql.newInstance('jdbc:postgresql://localhost:5432/foot, "footlogin","footpass","org.postgresql.Driver")

// Create a Groovy Builder which writes directly to the Cocoon pipeline
contentHandler = bsf.lookupBean("contentHandler")
xml = new SAXBuilder(contentHandler)

contentHandler.startDocument()
xml.root() {

    sql.eachRow('select * from m_player') { plr |
        xml.player() {
            id_player(plr.id_player);
            player_name(plr.player_name);
            player_url_name(plr.player_url_name);
            player_birth(plr.player_birth);
            player_town(plr.player_town);
            player_size(plr.player_size);
            player_weight(plr.player_weight);
            player_start(plr.player_start);
            player_photo(plr.player_photo);
            player_position(plr.player_position);
            id_club(plr.id_club);
        }
    }
}

sql.close()
contentHandler.endDocument()
// thats it.

```

**To use your groovy script, as describe in the sample BSF block do the following in your sitemap :**

The generator :

```

<map:generator logger="sitemap.generation.scriptgenerator" name="script" src="org.apache.cocoon.generation.
ScriptGenerator">
    <!-- Groovy support -->
    <add-languages>
        <language name="groovy" src="org.codehaus.groovy.bsf.GroovyEngine">
            <extension>groovy</extension>
            <extension>gy</extension>
        </language>
    </add-languages>
</map:generator>

```

The matcher

```

<map:match pattern="generator/*.gy">
    <map:generate type="script" src="generator/{1}.gy"/>
    <map:transform src="context://samples/hello-world/style/xsl/page2html.xsl"/>
    <map:serialize type="html"/>
</map:match>

```

I hope this helps.

– olivier demah –

[how to use Groovy to get values of parameters from Forms ?](#)