

# MySQL

## Connection to MySQL

This document explains the specific aspects of connecting Cocoon to a MySQL Database.

For a general explanation on database connections please refer to the [official Cocoon documentation](#) .

### Installing the JDBC drivers

- The JDBC drivers can be downloaded from the [MySQL.com](#) website. (They are an update of the popular 'Mark Matthews' driver. (See later)
- Expand the zip or tar file and locate the jar file `mysql-connector-java-2.0.14-bin.jar` (if you're using the 'Mark Matthews' driver, the jar file is called something like `mm.mysql-2.0.14-bin.jar`)
- Copy this file into either `$COCOON_LIB/WEB-INF/lib` (default `./build/webapp/WEB-INF/lib`) or `$TOMCAT_HOME/common/lib/`

### Setting the web.xml configuration

In the `$COCOON_LIB/WEB-INF/` directory you will find the `web.xml` file. Open it and look for this rows

```
<init-param>
  <param-name>load-class</param-name>
  <param-value>
<!--
  For IBM WebSphere:
    com.ibm.servlet.classloader.Handler .-->
```

here you have to add the following line:

```
<!-- For MySQL Driver: -->
  com.mysql.jdbc.Driver
  <!-- or use org.gjt.mm.mysql.Driver if you have the older 'Mark Matthews' driver-->
```

### Setting the cocoon.xconf configuration

Search for:

```
<datasources>
```

add into this element these lines:

```
<jdbc name="YourPoolName">
  <pool-controller min="5" max="10"/>
  <dburl>jdbc:mysql://localhost:3306/YourDatabaseName?autoReconnect=true</dburl>
  <user>YourUsername</user>
  <password>YourPassword</password>
</jdbc>
```

The `?autoReconnect=true` tip is cribbed from the [Tomcat JNDI datasource HOWTO](#) to get around the fact that MySQL by default drops connections that have been idle for 8 hours

### Setting the sitemap.xmap configuration

When you want to use the connection with the `SQLTransformer` you just call the JDBC name inside the pipeline in this way:

```
<map:match pattern="sqlquery">
  <map:generate src="sql/sqlquery.xml"/>
  <map:transform type="sql">
    <map:parameter name="use-connection" value="YourPoolName"/>
  </map:transform>
  <map:transform type="xslt" src="../../stylesheets/transformation.xslt"/>
  <map:serialize type="svg2jpeg"/>
</map:match>
```

Obviously you have to adapt this sample to fill your need.

[SpecificDatabaseConnection](#)

## Comments from the readers

Attention: you need to have (mysql jdbc driver, saxon , jdk) working together; I'm working with JDK1.5, Saxon8, Mysql JDBC 3.06-ga