

Installing jasperserver 4.0 with mysql 5.5

Posted on **August 19, 2011** | By: 

Installing jasperserver on tomcat with mysql5.5 it isn't as straight forward as one might think (or as their manual implies). I was trying to install the latest version of jasperserver using the war method and found the script fails. Reason: there are two files with the wrong syntax that need to be edited (this might also affect other versions of mysql and jasperserver). The files mentioned are located in this folder: `jasperreports-server-cp-4.0.0-bin/buildomatic/install_resources/sql/mysql/` and they are called:

`js-create.ddl`
`quartz.ddl`



Both of these files have the wrong syntax for creating the tables and setting its default type. This is how you fix it and successfully install jasperserver:

Download dependencies and jasperserver:

```
1. | sudo apt-get install openjdk-6-jdk
```

You can grab the latest [jasperserver from here](#). This will download a file called `jasperreports-server-cp-4.0.0-bin.zip`, if not, just rename it, then unzip it. Now lets start configuring things:

1. Change all occurrences of `type=InnoDB` to `ENGINE=InnoDB` (the files affected are listed below) and also
2. Change the following create table statement (notice the single back ticks around 'maxValue') `maxValue` is a reserved word in mysql5.5 and the compile fails if you try to create a table with a field name `maxValue`.

So open a text editor and edit the following 2 files:

`js-create.ddl`
`quartz.ddl`

```
1. | jasperreports-server-cp-4.0.0-bin/buildomatic/install_resources/sql/mysql/js-cr
2. | jasperreports-server-cp-4.0.0-bin/buildomatic/install_resources/sql/mysql/quart:
```

These are the changes, they apply to both files above (obviously, don't add the comment — **CORRECT!!!** — when editing the file:

```
01. | WRONG:
02. |
03. | create table JIDataType (
04. |     id bigint not null,
05. |     type tinyint,
06. |     maxLength integer,
07. |     decimals integer,
08. |     regularExpr varchar(255),
09. |     minValue tinyblob,
10. |     maxValue tinyblob,      --- WRONG !!! ---
11. |     strictMin bit,
12. |     strictMax bit,
13. |     primary key (id)
14. | ) ENGINE=InnoDB;
15. |
16. | CORRECT:
17. |
18. |     create table JIDataType (
19. |         id bigint not null,
20. |         type tinyint,
21. |         maxLength integer,
22. |         decimals integer,
23. |         regularExpr varchar(255),
24. |         minValue tinyblob,
25. |         `maxValue` tinyblob,  --- CORRECT !!! ----
26. |         strictMin bit,
27. |         strictMax bit,
28. |         primary key (id)
```

```
29. | ) ENGINE=InnoDB;
```

3. You should now be able to compile and install jasperserver, first start by copying and editing the config file. Assuming you have downloaded and unzipped the jasperserver file into your home directory, do the following:

```
1. | cd ~/jasperreports-server-cp-4.0.0-bin/buildomatic/
2. | cp sample_conf/mysql_master.properties default_master.properties
```

4. Now edit the config file default_master.properties with your correct mysql settings, it should look similar to this:

```
1. | appServerType = tomcat6
2. | appServerDir = /var/lib/tomcat6
3. | dbType=mysql
4. | dbHost=localhost
5. | dbUsername=yourmysqlusername
6. | dbPassword=yourmysqlpassword
7. | js.dbName=jasperserver
```

5. After the config file above has been copied and edited, run these:

```
1. | ./js-ant gen-config
2. | ./js-ant create-js-db
3. | ./js-ant init-js-db-ce
4. | ./js-ant import-minimal-ce
5. | sudo ./js-ant deploy-webapp-ce
```

6. Restart tomcat

```
1. | sudo service tomcat6 restart
```

7. After jasperserver has been installed and it is up and running, we need to edit the file below in jasperserver and reload the jar because jasperserver still fails with mysql 5.5 when handling numeric fields:

```
1. | cp /var/lib/tomcat6/webapps/jasperserver/WEB-INF/lib/jasperserver-repository-hil
   | 4.0.0.jar ~/tmp/
2. | cd ~/tmp/
3. | unzip jasperserver-repository-hibernate-4.0.0.jar
```

8. Use your preferred text editor to edit the line for maxValu (line #19) notice the addition of column="[maxValue]" in the file com/jaspersoft/jasperserver/api/metadata/common/service/impl/hibernate/persistent/RepoDataType.hbm.xml:

```
1. | vim
   | com/jaspersoft/jasperserver/api/metadata/common/service/impl/hibernate/persi:
   | ataType.hbm.xml
```

The entries look like the following, replace the one that says WRONG with the CORRECT one:

```
1. | <property name="maxValue" type="serializable"/> ---> WRONG
2. |
3. | <property name="maxValue" column="[maxValue]" type="serializable"/> ---> CORRECT
```

9. rename the original jar to something else or just delete it and rebuild the jar with your changes:

```
1. | jar cvf jasperserver-repository-hibernate-4.0.0.jar com META-INF
```

10. Login to Tomcat Web Application Manager and stop jasperserver

11. Replace the old jar with the new one:

```
1. | cd ~/tmp/
2. | sudo cp -r jasperserver-repository-hibernate-4.0.0.jar
   | /var/lib/tomcat6/webapps/jasperserver/WEB-INF/lib/
```

12. Restart jasperserver via Tomcat Web Application Manager

13. You're done, you should now be able to have your own jasperserver running on mysql5.5 without any errors.

Hopefully this tutorial helped you. Thank you for stopping by and please share with others, after all, code should be free.

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Edo Shor



on **January 13, 2012 at 06:06** said:

Thanks a lot for such a wonderful tutorial.
Keep the good spirit up!



Dan

on **January 25, 2012 at 09:40** said:

@Edo Thanks for stopping by and the kind words, glad this helped you 😊



Dan

on **January 30, 2012 at 15:31** said:

@Edo Thanks for the kind words



Armand Groenewald

on **May 7, 2012 at 13:23** said:

Hi there,

Can jasper server be used as a "proxy" to get to mysql, mysql is not allowing external connections....

We need iReports (from other places(external)) to connect to mysql to create an iReport.

Please be so kind as to help me....



Dan

on **June 27, 2012 at 18:11** said:

@Armand Groenewald You'd need to configure the mysql server to allow connections from the jasperserver, then you'd be able to access the data.



Rémi

on **January 18, 2013 at 07:28** said:

A big THANK for this providential tutorial who saved me many hours... !
Such an help is without price!



Dan

on **February 14, 2013 at 19:21** said:

@Remi Thanks for the kind words, glad I was able to help 😊