

# Apache Derby Database

## Using Apache Derby Database

**NOTE: The current code in the trunk does not support Derby (21 Aug 2009)**

### Prerequisites

You should have installed:

- JDK (it is maybe possible to work with jre only)

### Downloading and Setting Up the Database for VCL

1. Download Apache Derby and install it.

```
cd ~
wget http://apache.g5searchmarketing.com/db/derby/db-derby-10.5.1.1/db-derby-10.5.1.1-bin.tar.gz
tar -xzf db-derby-10.5.1.1-bin.tar.gz
mkdir /opt/Apache
mv db-derby-10.5.1.1-bin /opt/Apache/derby
export DERBY_HOME="/opt/Apache/derby"
export CLASSPATH="${DERBY_HOME}/lib/derby.jar:${DERBY_HOME}/lib/derbytools.jar:${CLASSPATH}"
PATH="${DERBY_HOME}/bin:${PATH}"
```

2. Create a database in Apache Derby. The database has to be placed in the path `/opt/`.  
Replace `'vcluser'` and `'vcluserpassword'` with the user and password you want.

```
cd /opt/
ij
connect 'jdbc:derby:vcl1;create=true;user='vcluser';password='vcluserpassword';';
exit;
```

3. Download `'vcl.sql'` file and the `'derby-parser.pl'`.  
The `'derby-parser.pl'` can be found as an attachment to this page and `'vcl.sql'` from repositories.  
Edit the file `'derby-parser.pl'`. the variables corresponding to the `'user'` and `'password'` should match your database.

```
svn export https://svn.apache.org/repos/asf/vcl/trunk/mysql/vcl.sql
chmod a+x derby-parser.pl
./derby-parser.pl
```

4. Import `vcl-derby.sql` file into database. It is a good idea to direct the output to file and check if there were any errors.

```
ij vcl-derby.sql > import.log
```

### Setting up the dbd\_jdbc Server

1. Install log4j

```
cd ~
wget http://www.apache.org/dyn/closer.cgi/logging/log4j/1.2.15/apache-log4j-1.2.15.tar.gz
tar -xzf apache-log4j-1.2.15.tar.gz
mv apache-log4j-1.2.15 /opt/Apache/derby/lib/
```

2. When installing the perl modules using the `'install_perl_libs.pl'` (`/usr/local/vcl/bin/install_perl_libs.pl`) two extra modules need to be installed for Derby. Open the file `'install_perl_libs.pl'` and in the list of modules to download add the following two modules.

```
http://search.cpan.org/CPAN/authors/id/G/GB/GBARR/Convert-BER-1.3101.tar.gz
http://search.cpan.org/CPAN/authors/id/V/VI/VIZDOM/DBD-JDBC-0.71.tar.gz
```

3. Run the scripts as normal

```
perl /usr/local/vcl/bin/install_perl_libs.pl
```

4. Copy some file from the modules to Derby directory

```
cp /tmp/perl-modules/DBD-JDBC-0.71/dbd_jdbc.jar /opt/Apache/derby/lib/
cp /tmp/perl-modules/DBD-JDBC-0.71/log4j.properties /opt/Apache/derby/lib/apache-log4j-1.2.15
```

5. Create a script file which will launch the dbd\_jdbc Server. Save it under any name and directory (e.g. /opt/server.sh), only remember that this scrips needs to be executed every time you start up the server. The file should contain

```
#!/usr/bin/bash
java -Djdbc.drivers=org.apache.derby.EmbeddedDriver -Ddbd.port=12345 -classpath /opt/Apache/derby/lib
/derby.jar:/opt/Apache/derby/lib/dbd_jdbc.jar:/opt/Apache/derby/lib/apache-log4j-1.2.15/log4j-1.2.15.jar:
/opt/Apache/derby/lib/apache-log4j-1.2.15/ com.vizdom.dbd.jdbc.Server &
```

Note1: if some of your paths are different you need make the changes in this scrips file as well

Note2: currently port 12345 is used for connecting to Derby, this is hard coded. Can be changed on a later stage.

6. Make the script executable

```
chmod a+x /opt/server
```

7. Start the Server

```
/opt/server
```