SISTEMAS DE BANCOS DE DADOS

AULA 06 - MONTAGEM DO AMBIENTE DE TRABALHO

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1. Instalação do programa ant

2. Instalação do software JDK

2.1 Descompactar o arquivo baixado e editar o arquivo bash.bashrc para incluir o caminho dos arquivos da nova versão do java instalada.

2.2 Remover os links dos programas java e javac que existem para a pasta etc/alternatives.

```
mury@ubuntu:~$ sudo rm /usr/bin/java /usr/bin/javac
[sudo] password for mury:
rm: cannot remove '/usr/bin/javac': No such file or directory
mury@ubuntu:~$ sudo ln -s /usr/local/jdk/bin/java /usr/bin/java
mury@ubuntu:~$ sudo ln -s /usr/local/jdk/bin/javac /usr/bin/javac
mury@ubuntu:~$
```

2.3 Instalação da biblioteca de acesso do java ao banco de dados DERBY.

```
mury@ubuntu:~$ sudo ln -s /usr/local/jdk/bin/javac /usr/bin/javac
mury@ubuntu:~$ sudo apt install libderby-java
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Suggested packages:
  derby-doc
The following NEW packages will be installed:
  libderby-java
0 upgraded, 1 newly installed, 0 to remove and 130 not upgraded.
Need to get 4,309 kB of archives.
After this operation, 5,065 kB of additional disk space will be used.
Get:1 http://us.archive.ubuntu.com/ubuntu hirsute/universe amd64 libderby-java a
ll 10.14.2.0-2 [4,309 kB]
Fetched 4,309 kB in 13s (337 kB/s)
Selecting previously unselected package libderby-java.
(Reading database ... 181628 files and directories currently installed.)
Preparing to unpack .../libderby-java_10.14.2.0-2_all.deb ...
Unpacking libderby-java (10.14.2.0-2) ...
Setting up libderby-java (10.14.2.0-2) ...
mury@ubuntu:~$
```

3. Instalação do tutorial JDBC

```
compactado.tar.gz  jdk-18_linux-x64_bin.tar.gz  sample.tar.gz
mury@ubuntu:~/Downloads$ cd ..
mury@ubuntu:~$ mkdir mydir
mury@ubuntu:~$ cd mydir
mury@ubuntu:~/mydir$ cd.
Command 'cd.' not found, did you mean:
  command 'cdo' from deb cdo (1.9.10-1)
  command 'cd5' from deb cd5 (0.1-4)
  command 'cde' from deb cde (0.1+git9-g551e54d-1.2)
  command 'cdw' from deb cdw (0.8.1-1build5)
  command 'cdb' from deb tinycdb (0.78build1)
  command 'cdi' from deb cdo (1.9.10-1)
  command 'cdp' from deb irpas (0.10-8ubuntu1)
Try: sudo apt install <deb name>
mury@ubuntu:~/mydir$ cd ..
mury@ubuntu:~$ cd Downloads/
mury@ubuntu:~/Downloads$ ls
IB.dump  JDBCTutorial.zip  sample
mury@ubuntu:~/Downloads$ cd ..
mury@ubuntu:~$ cd mkdir
bash: cd: mkdir: No such file or directory
mury@ubuntu:~$ cd mydir
mury@ubuntu:~/mydir$ unzip ../Downloads/JDBCTutorial.zip
```

4. Configuração do tutorial para execução

```xml
3  <project name="Java DB Properties" default="all" basedir=".">
4
5
6      <property name="JAVAC" value="/usr/local/jdk/bin/javac"/>
7      <property name="JAVA" value="/usr/local/jdk/bin/java"/>
8
9      <property name="PROPERTIESFILE" value="properties/javadb-sample-properties.xml"/>
10     <property name="JAVADBDRIVER" value="/usr/share/java/derby.jar"/>
11     <property name="XALANDIRECTORY" value="/usr/bin"/>
12
13
14     <path id="XALAN">
15         <pathelement location="${XALANDIRECTORY}/xalan.jar"/>
16     </path>
17
18     <path id="CLASSPATH">
19         <pathelement location="classes"/>
20         <pathelement location="${JAVADBDRIVER}"/>
21         <pathelement location="lib/JDBCTutorial.jar"/>
22         <path refid="XALAN"/>
23     </path>
24
25
26     <property name="DB.VENDOR" value="javadb"/>
27     <property name="DB.DRIVER" value="org.apache.derby.jdbc.EmbeddedDriver"/>
28     <property name="DB.HOST" value="localhost"/>
29     <property name="DB.PORT" value="3306"/>
30     <property name="DB.SID" value="testdb"/>
31     <property name="DB.URL" value="jdbc:derby:${DB.SID};create=true;"/>
32     <property name="DB.USER" value=""/>
33     <property name="DB.PASSWORD" value=""/>
34     <property name="DB.DELIMITER" value=";"/>
35
36 </project>
37
```
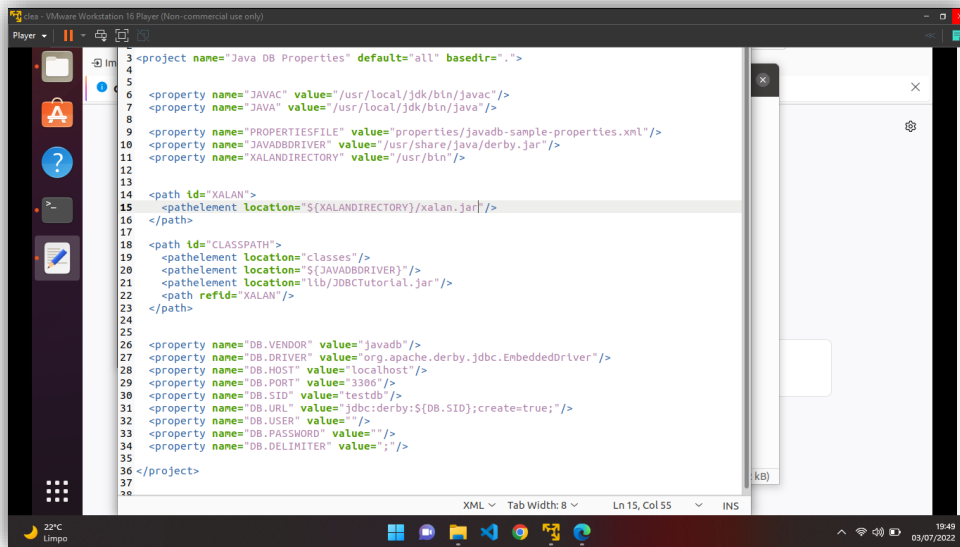
5. Executar o tutorial do JDBC


```
compile:
    [echo] JDBC Tutorial is using C:\\Java\\jdk1.8.0\\bin\\javac as Java compiler

jar:
    [jar] Building jar: /home/mury/mydir/JDBCTutorial/lib/JDBCTutorial.jar

BUILD SUCCESSFUL
Total time: 2 seconds
mury@ubuntu:~/mydir/JDBCTutorial$ ant setup
Buildfile: /home/mury/mydir/JDBCTutorial/build.xml

setup:

drop-tables:

BUILD FAILED
/home/mury/mydir/JDBCTutorial/build.xml:140: The following error occurred while executing this line:
/home/mury/mydir/JDBCTutorial/build.xml:83: Class Not Found: JDBC driver com.mysql.cj.jdbc.Driver could not be loaded
d

Total time: 1 second
mury@ubuntu:~/mydir/JDBCTutorial$ ant ruct
Buildfile: /home/mury/mydir/JDBCTutorial/build.xml

BUILD FAILED
Target "ruct" does not exist in the project "JDBC Tutorial".
```

Terminal window (left):

```
        [java] portNumber: 3306
        [java] Releasing all open resources ...
        [java] java.sql.SQLException: No suitable driver found for jdbc:m
ysql://localhost:3306/
        [java]     at java.sql/java.sql.DriverManager.getConnection(Drive
rManager.java:708)
        [java]     at java.sql/java.sql.DriverManager.getConnection(Drive
rManager.java:191)
        [java]     at com.oracle.tutorial.jdbc.JDBCTutorialUtilities.getC
onnection(JDBCTutorialUtilities.java:290)
        [java]     at com.oracle.tutorial.jdbc.CoffeesTable.main(CoffeesT
able.java:318)
        [java] SQLState: 08001
        [java] Error Code: 0
        [java] Message: No suitable driver found for jdbc:mysql://localho
st:3306/

BUILD SUCCESSFUL
Total time: 1 second
mury@ubuntu:~/mydir/JDBCTutorial$ ls
build.xml  classes  lib  properties  sql  src  txt  xml
mury@ubuntu:~/mydir/JDBCTutorial$ gedit src/com/oracle/tutorial/jdbc/C
offeesTable.java
cd ..
mury@ubuntu:~/mydir/JDBCTutorial$ cd ..
mury@ubuntu:~/mydir$ ls
JDBCTutorial
mury@ubuntu:~/mydir$ cd JDBCTutorial/
mury@ubuntu:~/mydir/JDBCTutorial$ ls
build.xml  classes  lib  properties  sql  src  txt  xml
mury@ubuntu:~/mydir/JDBCTutorial$ gedit build.xml
```

build.xml (right editor):

```xml
189        <java
    classname="com.oracle.tutorial.jdbc.FilteredRowSetSample"
191              classpathref="CLASSPATH" fork="true" dir=".">
192        <arg value="${PROPERTIESFILE}"/>
193      </java>
194    </target>
195
196
197  <target name="runwrs">
198      <java classname="com.oracle.tutorial.jdbc.WebRowSetSample"
199            classpathref="CLASSPATH" fork="true" dir=".">
200        <arg value="${PROPERTIESFILE}"/>
201      </java>
202  </target>
203
204  <!-- Other JDBC Data Types -->
205
206  <target name="runclob">
207      <java classname="com.oracle.tutorial.jdbc.ClobSample"
208            classpathref="CLASSPATH" fork="true" dir=".">
209        <arg value="${PROPERTIESFILE}"/>
210      </java>
211  </target>
212
213  <target name="runrss">
214      <java classname="com.oracle.tutorial.jdbc.RSSFeedsTable"
215            classpathref="CLASSPATH" fork="true" dir=".">
216        <arg value="${PROPERTIESFILE}"/>
217      </java>
218  </target>
```