T03-Instalação, configuração, execução do JDBC Jefferson Cristino da Costa - 11821BSI227

1 Instalar o programa ANT sudo apt-get install aptitude

```
/home/jefferson
Desktop Documents Downloads Music Pictures Public snap Templates Videos
jefferson@jefferson-costa:~$ sudo apt-get install aptitude
[sudo] password for jefferson:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
aptitude is already the newest version (0.8.13-3ubuntu1).
The following packages were automatically installed and are no longer required:
apache2 apache2-bin apache2-data apache2-utils libapache2-mod-wsgi-py3
libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap pgadmin4-web
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 18 not upgraded.
jefferson@jefferson-costa:-$
```

2.1 aptitude search postgres

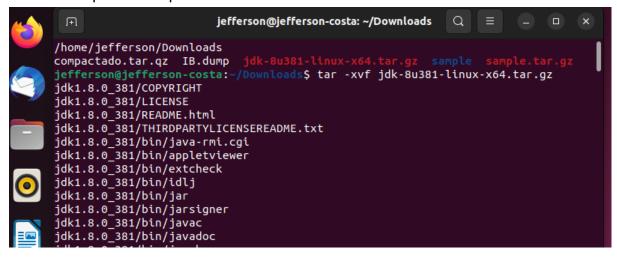


2.2 sudo apt-get install ant



2 Instalação JDK

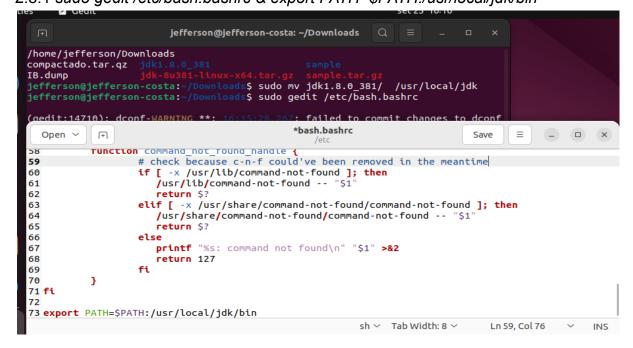
2.1 Descompacta o arquivo



2.2 Mover a pasta descompactada para a pasta /usr/local/ com o comando: *sudo mv jdk1.8.0_381/ /usr/local/jdk*



- 2.3 Editar o arquivo /etc/bash.bashrc para incluir o caminho dos arquivos da nova versão do java
- 2.3.1 sudo gedit /etc/bash.bashrc & export PATH=\$PATH:/usr/local/jdk/bin



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

sudo rm /usr/bin/java /usr/bin/javac sudo ln -s /usr/local/jdk/bin/java /usr/bin/java sudo ln -s /usr/local/jdk/bin/javac /usr/bin/javac

```
jefferson@jefferson-costa:~
/home/jefferson
Desktop Documents Downloads Music Pictures Public snap Templates Videos
jefferson@jefferson-costa:~$ sudo rm /usr/bin/java /usr/bin/javac
[sudo] password for jefferson:
rm: cannot remove '/usr/bin/java': No such file or directory
rm: cannot remove '/usr/bin/javac': No such file or directory
jefferson@jefferson-costa:~$ sudo ln -s /usr/local/jdk/bin/java /usr/bin/java
jefferson@jefferson-costa:~$ sudo ln -s /usr/local/jdk/bin/javac /usr/bin/javac
jefferson@jefferson-costa:~$
```

4 Instalação da biblioteca de acesso do java ao banco de dados DERBY sudo apt install libderby-java

```
Q
                              jefferson@jefferson-costa: ~
/home/jefferson
jefferson@jefferson-costa:~$ sudo apt install libderby-java
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
 apache2 apache2-bin apache2-data apache2-utils libapache2-mod-wsgi-py3
 libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap pgadmin4-web
Use 'sudo apt autoremove' to remove them.
Suggested packages:
 derby-doc
The following NEW packages will be installed:
 libderby-java
0 upgraded, 1 newly installed, 0 to remove and 8 not upgraded.
Need to get 4.309 kB of archives.
After this operation, 5.065 kB of additional disk space will be used.
```

5 Instalação do tutorial JDBC

- 1. mkdir mydir; cd mydir
- 2. unzip2 ../Downloads/JDBCTutorial.zip

```
jefferson@jefferson-costa: ~/mydir
                                                                 Q
                                                                                       ×
/home/jefferson/Downloads
compactado.tar.qz
IB.dump
jefferson@jefferson-costa:~/Downloads$ cd ...
jefferson@jefferson-costa:~$ mkdir mydir
jefferson@jefferson-costa:~$ cd mydir/
jefferson@jefferson-costa:~/mydir$ unzip ../Downloads/JDBCTutorial.zip
Archive: ../Downloads/JDBCTutorial.zip
   creating: JDBCTutorial/
creating: JDBCTutorial/classes/
creating: JDBCTutorial/classes/com/
   creating: JDBCTutorial/classes/com/oracle/
   creating: JDBCTutorial/classes/com/oracle/tutorial/
   creating: JDBCTutorial/classes/com/oracle/tutorial/jdbc/
   creating: JDBCTutorial/lib/
   creating: JDBCTutorial/properties/
   creating: JDBCTutorial/sql/
   creating: JDBCTutorial/sql/javadb/
   creating: JDBCTutorial/sql/mysql/
```

6 Configuração do tutorial para execução



```
~/mvdir/JDBCTutorial/properties
 1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE properties SYSTEM "http://java.sun.com/dtd/properties.dtd">
3 cproperties>
    <entry key="dbms">derby</entry>
    <entry key="jar file">/home/jefferson/mydir/JDBCTutorial/lib/JDBCTutorial.jar/entry>
    <entry key="driver">org.apache.derby.jdbc.EmbeddedDriver</entry>
    <entry key="database_name">testdb</entry>
8
    <entry key="user_name"></entry>
    <entry key="password"></entry>
10
   <entry key="server_name">localhost</entry>
11
    <entry key="port_number">3306</entry>
12
13
14 </properties>
                                        XML × Tab Width: 8 × Ln 13, Col 1 × INS
```

6 Executar o tutorial do JDBC

- cd JDBCTutorial
- ant jar

```
jefferson@jefferson-costa: ~/mydir/JDBCTutorial
/home/jefferson/mydir/JDBCTutorial
build.xml classes lib properties sql src txt xml
jefferson@jefferson-costa:~/mydir/JDBCTutorial$ ant jar
Buildfile: /home/jefferson/mydir/JDBCTutorial/build.xml

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

jar:
        [jar] Building jar: /home/jefferson/mydir/JDBCTutorial/lib/JDBCTutorial.ja
r

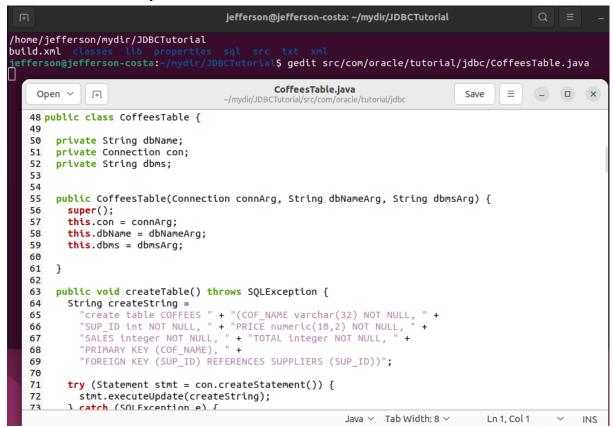
BUILD SUCCESSFUL
Total time: 0 seconds
jefferson@jefferson-costa:~/mydir/JDBCTutorial$
```

ant setup

```
jefferson@jefferson-costa: ~/mydir/JDBCTutorial
                                                            Q
                                                                 \equiv
                                                                                ×
/home/jefferson/mydir/JDBCTutorial
build.xml classes lib properties sql src txt xml
jefferson@jefferson-costa:~/mydir/JDBCTutorial$ ant setup
Buildfile: /home/jefferson/mydir/JDBCTutorial/build.xml
setup:
drop-tables:
BUILD FAILED
/home/jefferson/mydir/JDBCTutorial/build.xml:140: The following error occurred w
hile executing this line:
/home/jefferson/mydir/JDBCTutorial/build.xml:83: Class Not Found: JDBC driver co
m.mysql.cj.jdbc.Driver could not be loaded
Total time: 0 seconds
jefferson@jefferson-costa:~/mydir/JDBCTutorial$
```

ant runct

 Verifique os tipos de consultas que estão presentes na classe CoffeesTable.java



 Para voltar o banco para o seu estado inicial será necessário executar o ant setup novamente.



 Caso você queira expandir o arsenal de comandos do ant para este projeto então terá que editar o arquivo build.xml presente na raiz da pasta JDBCTutorial. Abra-o o veja que comandos existem

```
jefferson@jefferson-costa: ~/mydir/JDBCTutorial
       Open ~ | F
                                                                                    _ D X
build
jeffe
Build 188
         <target name="runfrs">
     189
setup 190
           <java classname="com.oracle.tutorial.jdbc.FilteredRowSetSample"</pre>
                 classpathref="CLASSPATH" fork="true" dir=".">
     191
             <arg value="${PROPERTIESFILE}"/>
drop-
    192
     193
            </java>
BUILD 194
         </target>
/home/195
/home 196
                                                                                                  d not
be 1 197
          <target name="runwrs">
     198
             <java classname="com.oracle.tutorial.jdbc.WebRowSetSample"</pre>
Total 199
                  classpathref="CLASSPATH" fork="true" dir=".">
jeffer 200
build 201
               <arg value="${PROPERTIESFILE}"/>
             </java>
     202
          </target>
     203
     204
          <!-- Other JDBC Data Types -->
     205
     206
          <target name="runclob">
             207
     208
                <arg value="${PROPERTIESFILE}"/>
     209
     210
              </java>
     211
         </target>
     212
                  XML ✓ Tab Width: 8 ✓ Ln 1, Col 1 ✓ INS
```