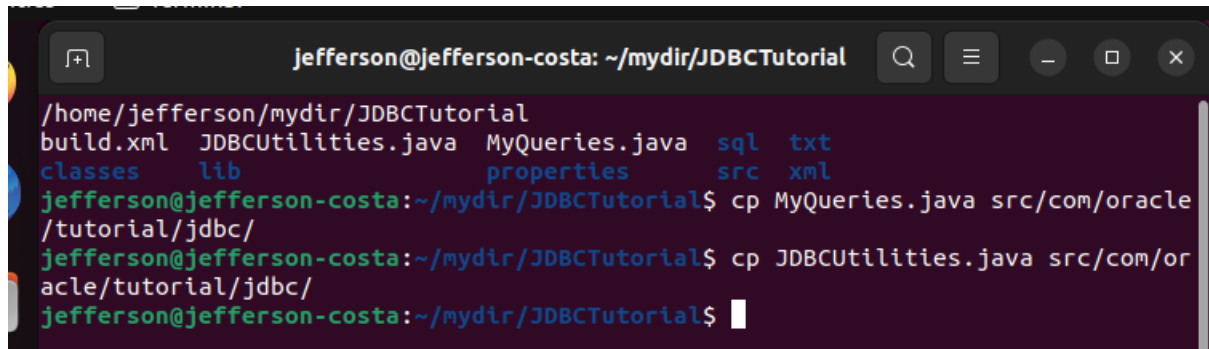


T04-Modificando o tutorial JDBC

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1 Baixar o código fonte da classe MyQueries.java e JDBCUtilities.java para o diretório raiz do tutorial. Em seguida posicione o cursor na pasta raiz do tutorial com o comando cd e digite:

1. `cp MyQueries.java src/com/oracle/tutorial/jdbc/`
2. `cp JDBCUtilities.java src/com/oracle/tutorial/jdbc/`



```
jefferson@jefferson-costa: ~/mydir/JDBCTutorial
/home/jefferson/mydir/JDBCTutorial
build.xml  JDBCUtilities.java  MyQueries.java  sql  txt
classes    lib                    properties  src    xml
jefferson@jefferson-costa:~/mydir/JDBCTutorial$ cp MyQueries.java src/com/oracle/tutorial/jdbc/
jefferson@jefferson-costa:~/mydir/JDBCTutorial$ cp JDBCUtilities.java src/com/oracle/tutorial/jdbc/
jefferson@jefferson-costa:~/mydir/JDBCTutorial$
```

2 Incluir uma sessão de configuração para executar a classe MyQueries no arquivo build.xml:

```
242 </target>
243
244 <target name="runframe">
245     <java classname="com.oracle.tutorial.jdbc.CoffeesFrame"
246           classpathref="CLASSPATH" fork="true" dir=".">
247         <arg value="${PROPERTIESFILE}" />
248     </java>
249 </target>
250
251 <target name="mycode">
252     <java classname="com.oracle.tutorial.jdbc.MyQueries"
253           classpathref="CLASSPATH" fork="true" dir=".">
254         <arg value="${PROPERTIESFILE}" />
255     </java>
256 </target>
257
258 </project>
```

XML ▾ Tab Width: 8 ▾ Ln 256, Col 13 ▾ INS

3 Modificar a consulta presente em MyQueries.java para atender ao seguinte enunciado: Liste os nomes de todos os fornecedores de café acompanhados da quantidade de tipos de cafés vendidos para a loja

```
17 public static void getMyData(String supplierName, Connection con) throws SQLException {
18     Statement stmt = null;
19     String query =
20         "SELECT SUPPLIERS.SUP_NAME, COUNT(COFFEES.COF_NAME) FROM COFFEES INNER JOIN SUPPLIERS ON
21         SUPPLIERS.SUP_ID = COFFEES.SUP_ID, GROUP BY SUPPLIERS.SUP_NAME";
22
23     try {
24         stmt = con.createStatement();
25         ResultSet rs = stmt.executeQuery(query);
26         System.out.println("Suppliers and coffes quantity distributed by them ");
27         while (rs.next()) {
28             String supplierName = rs.getString(1);
29             System.out.println("    " + supplierName);
30             String qtd = rs.getString(2);
31             System.out.println("    " + qtd);
32         }
33     } catch (SQLException e) {
34         JDBCUtilities.printSQLException(e);
35     } finally {
36         if (stmt != null) { stmt.close(); }
37     }
38 }
```

4 Compilar, reiniciar o banco e executar o novo código.

1. ant jar; ant setup; ant mycode

```
jefferson@jefferson-costa: ~/mydir/JDBCTutorial
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 compiler
[javac] Compiling 1 source file to /home/jefferson/mydir/JDBCTutorial/classes

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

BUILD SUCCESSFUL
Total time: 2 seconds
jefferson@jefferson-costa:~/mydir/JDBCTutorial$

Total time: 2 seconds
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 while
executing this line:
/home/jefferson/mydir/JDBCTutorial/build.xml:83: Class Not Found: JDBC driver com.mys
sql.cj.jdbc.Driver could not be loaded

Total time: 0 seconds

jefferson@jefferson-costa:~/mydir/JDBCTutorial$ ant mycode
Buildfile: /home/jefferson/mydir/JDBCTutorial/build.xml

mycode:
[java] Set the following properties:
[java] java.sql.SQLException: No suitable driver found for jdbc:mysql://localho
st:3306/
[java]    at java.sql.DriverManager.getConnection(DriverManager.java:689)
[java]    at java.sql.DriverManager.getConnection(DriverManager.java:208)
[java]    at com.oracle.tutorial.jdbc.JDBCUtilities.getConnection(JDBCUtilitie
s.java:161)
[java]    at com.oracle.tutorial.jdbc.MyQueries.main(MyQueries.java:59)
[java] SQLState: 08001
[java] Error Code: 0dbms: mysql
[java] Message: No suitable driver found for jdbc:mysql://localhost:3306/
[java]
[java] driver: com.mysql.cj.jdbc.Driver
[java] dbName: testdb
[java] userName: root
[java] serverName: localhost
[java] portNumber: 3306
[java] Releasing all open resources ...

BUILD SUCCESSFUL
Total time: 1 second
```

5) Baixar o arquivo comp para a pasta raiz do tutorial (mesma pasta onde está o build.xml). De agora em diante utilizaremos o comp para compilar e executar as modificações da

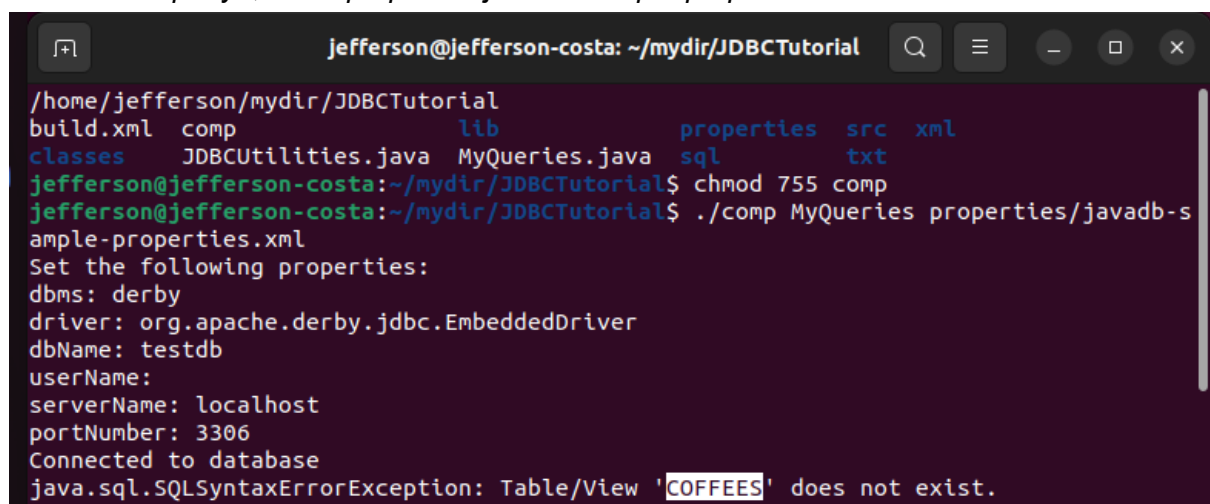
classe MyQueries e evitar reutilizar o código armazenado na biblioteca JDBCTutorial.jar. Abram o script comp para entender como ele funciona. Lembre-se de alterar os caminhos absolutos que estão digitados no arquivo comp, esse arquivo foi configurado para a minha máquina e você deve alterar as pastas para a sua máquina.



```
1#!/bin/sh -
2
3derby=/usr/share/java/derby.jar
4mypath=/home/jefferson/mydir/JDBCTutorial
5mypackage=com/oracle/tutorial/jdbc
6
7if [ -r $mypath/src/$mypackage/$1.java -a -r $mypath/$2 ]
8then
9
10    javac -cp "$derby:$mypath/classes:$mypath/lib/JDBCTutorial.jar" $mypath/src/$mypackage/
11    $1.java
12
13    if [ -r $mypath/src/$mypackage/$1.class ]
14    then
15        mv $mypath/src/$mypackage/$1.class $mypath/classes/$mypackage/
16
17        java -cp "$derby:$mypath/classes" $mypackage/$1 $mypath/$2
18    fi
19else
20    echo Missing file, check:
21    ls $mypath/src/$mypackage/$1.java
22    ls $mypath/$2
23fi
```

6) Antes de executar o script comp, mude a permissão de execução no linux:

1. `chmod 755 comp`
2. `./comp MyQueries properties/javadb-sample-properties.xml`



```
jefferson@jefferson-costa: ~/mydir/JDBCTutorial
/home/jefferson/mydir/JDBCTutorial
build.xml  comp          lib          properties  src  xml
classes   JDBCUtilities.java  MyQueries.java  sql        txt
jefferson@jefferson-costa:~/mydir/JDBCTutorial$ chmod 755 comp
jefferson@jefferson-costa:~/mydir/JDBCTutorial$ ./comp MyQueries properties/javadb-sample-properties.xml
Set the following properties:
dbms: derby
driver: org.apache.derby.jdbc.EmbeddedDriver
dbName: testdb
userName:
serverName: localhost
portNumber: 3306
Connected to database
java.sql.SQLException: Table/View 'COFFEES' does not exist.
```