TRABALHO 06 – TRATAMENTO DE ERROS DE CONEXOES
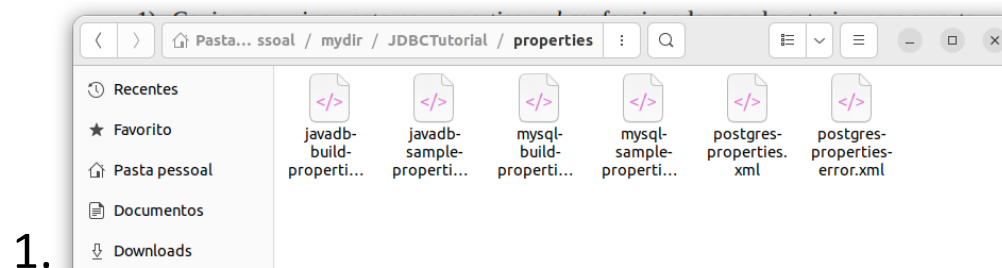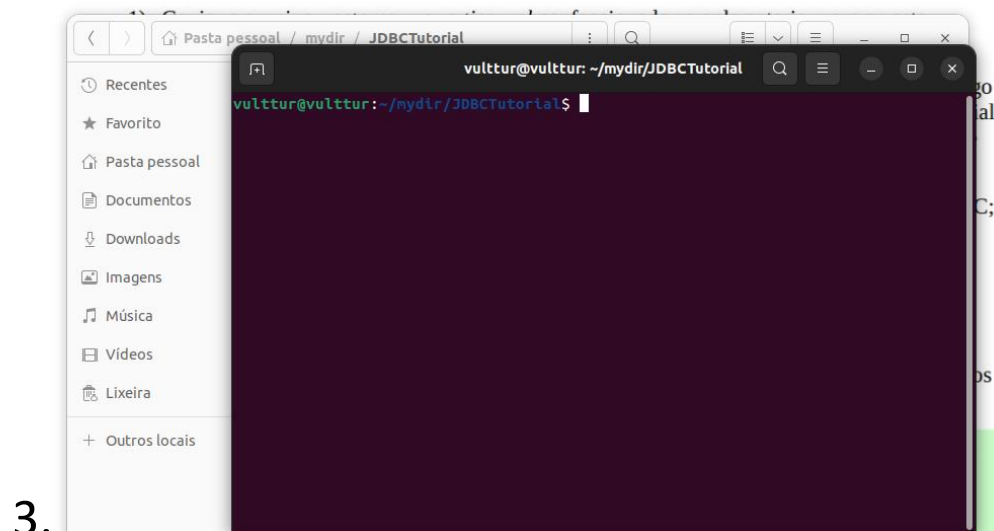
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1.

2.#

3.

4.

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```java
154    connectionProps.put("user", this.userName);
155    connectionProps.put("password", this.password);
156
157    String currentUrlString = null;
158
159    if (this.dbms.equals("mysql")) {
160        currentUrlString = "jdbc:" + this.dbms + "://" + this.serverName + ":" + this.portNumber + "/";
161        conn = DriverManager.getConnection(currentUrlString, connectionProps);
162        this.urlString = currentUrlString + this.dbName;
163        conn.setCatalog(this.dbName);
164    } else if (this.dbms.equals("derby")) {
165        this.urlString = "jdbc:" + this.dbms + ":" + this.dbName;
166        conn = DriverManager.getConnection(this.urlString + ";create=true", connectionProps);
167    } else if (this.dbms.equals("postgresql")) {
168        currentUrlString = "jdbc:" + this.dbms + "://" + this.serverName + ":" + this.portNumber + "/" + this.dbName;
169        conn = DriverManager.getConnection(currentUrlString, connectionProps);
170        this.urlString = currentUrlString + this.dbName;
171        conn.setCatalog(this.dbName);
172    }
173    System.out.println("Connected to database" + conn.getSchema());
174    return conn;
175 }
```

Largura da tabulação: 8 ∨ | Lin 174, Col 9 ∨ | INS

Terminal: vulttur@vulttur: ~/mydir/JDBCTutorial

```
vulttur@vulttur:~/mydir/JDBCTutorial$ gedit  src/com/oracle/tutorial/jdbc/JDBCUt
ilities.java &
[1] 5778
vulttur@vulttur:~/mydir/JDBCTutorial$
```

5.

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Search: 🔍 printSQLException   ⌫ 3 de 4

```java
188        connArg.close();
189        connArg = null;
190      }
191    } catch (SQLException sqle) {
192        printSQLException(sqle);
193    }
194 }
195
196 public static void main(String[] args) {
197    JDBCUtilities myJDBCUtilities;
198    Connection myConnection = null;
199    if (args[0] == null) {
200        System.err.println("Properties file not specified at command line");
201        return;
202    } else {
203        try {
204            System.out.println("Reading properties file " + args[0]);
205            myJDBCUtilities = new JDBCUtilities(args[0]);
206        } catch (Exception e) {
207            System.err.println("Problem reading properties file " + args[0]);
208            e.printStackTrace();
209            return;
210        }
211    }
212
213    try {
214        myConnection = myJDBCUtilities.getConnection();
215
216    } catch (SQLException e) {
217        JDBCUtilities.printSQLException(e);
218    } catch (Exception e) {
219        e.printStackTrace(System.err);
220    } finally {
221        JDBCUtilities.closeConnection(myConnection);
222    }
```

Java ∨ | Largura da tabulação: 8 ∨ | Lin 192, Col 7 ∨ | INS

6.

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```java
91  }
92
93  public static void printSQLException(SQLException ex) {
94      for (Throwable e : ex) {
95          if (e instanceof SQLException) {
96              if (ignoreSQLException(((SQLException)e).getSQLState()) == false) {
97                  e.printStackTrace(System.err);
98                  System.err.println("SQLState: " + ((SQLException)e).getSQLState());
99                  System.err.println("Error Code: " + ((SQLException)e).getErrorCode());
100                 System.err.println("Message: " + e.getMessage());
101                 Throwable t = ex.getCause();
102                 while (t != null) {
103                     System.out.println("Cause: " + t);
104                     t = t.getCause();
105                 }
106             }
107         }
108     }
109 }
110
111 public static void alternatePrintSQLException(SQLException ex) {
112     while (ex != null) {
113         System.err.println("SQLState: " + ex.getSQLState());
114         System.err.println("Error Code: " + ex.getErrorCode());
115         System.err.println("Message: " + ex.getMessage());
116         Throwable t = ex.getCause();
117         while (t != null) {
118             System.out.println("Cause: " + t);
119             t = t.getCause();
120         }
121         ex = ex.getNextException();
122     }
123 }
124
125 private void setProperties(String fileName) throws FileNotFoundException.
```

Java ∨ | Largura da tabulação: 8 ∨ | Lin 192, Col 7 ∨ | INS

7.
```
vulttur@vulttur:~/mydir/JDBCTutorial$ ./comp2 JDBCUtilities properties/postgres-
properties-error.xml
Reading properties file /home/vulttur/mydir/JDBCTutorial/properties/postgres-pro
perties-error.xml
Set the following properties:
dbms: postgresql
driver: com.mysql.cj.jdbc.Driver
dbName: postgres
userName: postgres
serverName: localhost
portNumber: 5432
Connected to databasepublic
Releasing all open resources ...
vulttur@vulttur:~/mydir/JDBCTutorial$
```

8.#

9.
```
Releasing all open resources ...
vulttur@vulttur:~/mydir/JDBCTutorial$ ./comp2 JDBCUtilities properties/postgres-
properties-error.xml
Reading properties file /home/vulttur/mydir/JDBCTutorial/properties/postgres-pro
perties-error.xml
Set the following properties:
dbms: postgresql
driver: com.mysql.cj.jdbc.Driver
dbName: postgres
userName: postgres
serverName: localhost
portNumber: 5432
SQLState: 28P01
Error Code: 0
Message: FATAL: password authentication failed for user "postgres"
Releasing all open resources ...
vulttur@vulttur:~/mydir/JDBCTutorial$
```

```java
public static void printSQLException(SQLException ex) {
  for (Throwable e : ex) {
    if (e instanceof SQLException) {
      if (ignoreSQLException(((SQLException)e).getSQLState()) == false) {
        // e.printStackTrace(System.err);
        System.err.println("SQLState: " + ((SQLException)e).getSQLState());
        System.err.println("Error Code: " + ((SQLException)e).getErrorCode());
        System.err.println("Message: " + e.getMessage());
        Throwable t = ex.getCause();
        while (t != null) {
          System.out.println("Cause: " + t);
          t = t.getCause();
        }
      }
    }
```

10.


```
dbms: postgresql
driver: com.mysql.cj.jdbc.Driver
dbName: postgres
userName: postgres
serverName: localhost
portNumber: 5432
Connected to databasepublic
Releasing all open resources ...
vulttur@vulttur:~/mydir/JDBCTutorial$ ./comp2 JDBCUtilities properties/postgres-
properties-error.xml
Reading properties file /home/vulttur/mydir/JDBCTutorial/properties/postgres-pro
perties-error.xml
Set the following properties:
dbms: postgresql
driver: com.mysql.cj.jdbc.Driver
dbName: postgres
userName: postgres
serverName: localhost
portNumber: 5432
SQLState: 28P01
Error Code: 0
Message: FATAL: password authentication failed for user "postgres"
Releasing all open resources ...
vulttur@vulttur:~/mydir/JDBCTutorial$
```

11. #

12.


```java
    // 42Y55: Table already exists in schema
    if (sqlState.equalsIgnoreCase("42Y55"))

      return true;
      if (sqlState.equalsIgnoreCase("28P01"))
    {

      System.out.println("Usuario padrao é postgres e senha é postgres");
      return true;
    }
    if (sqlState.equalsIgnoreCase("42601"))
    {
      System.out.println("String SQL errada");
      return true;
    }
    if (sqlState.equalsIgnoreCase("42P01"))
    {
      System.out.println("Nome da Coluna Errada");
      return true;
    }
    if (sqlState.equalsIgnoreCase("3D000"))
    {
      System.out.println("Database name errada");
      return true;
    }
```

13.

```
Releasing all open resources ...
vulttur@vulttur:~/mydir/JDBCTutorial$ ./comp2 JDBCUtilities properties/postgres-properties-error.xml
Reading properties file /home/vulttur/mydir/JDBCTutorial/properties/postgres-properties-error.xml
Set the following properties:
dbms: postgresql
driver: com.mysql.cj.jdbc.Driver
dbName: postgres
userName: postgres
serverName: localhost
portNumber: 5432
SQLState: 28P01
Error Code: 0
Message: FATAL: password authentication failed for user "postgres"
Releasing all open resources ...
vulttur@vulttur:~/mydir/JDBCTutorial$ ./comp2 JDBCUtilities properties/postgres-properties-error.xml
Reading properties file /home/vulttur/mydir/JDBCTutorial/properties/postgres-properties-error.xml
Set the following properties:
dbms: postgresql
driver: com.mysql.cj.jdbc.Driver
dbName: postgres
userName: postgres
serverName: localhost
portNumber: 5432
Senha ou usuario incorreto
Releasing all open resources ...
vulttur@vulttur:~/mydir/JDBCTutorial$
```

```
vulttur@vulttur:~/mydir/JDBCTutorial$ ./comp2 JDBCUtilities properties/postgres-properties-error.xml
Reading properties file /home/vulttur/mydir/JDBCTutorial/properties/postgres-properties-error.xml
Set the following properties:
dbms: postgresql
driver: com.mysql.cj.jdbc.Driver
dbName: null
userName: postgres
serverName: localhost
portNumber: 5432
SQLState: 3D000
Error Code: 0
Message: FATAL: database "null" does not exist
Releasing all open resources ...
vulttur@vulttur:~/mydir/JDBCTutorial$ ./comp2 JDBCUtilities properties/postgres-properties-error.xml
Reading properties file /home/vulttur/mydir/JDBCTutorial/properties/postgres-properties-error.xml
Set the following properties:
dbms: postgresql
driver: com.mysql.cj.jdbc.Driver
dbName: null
userName: postgres
serverName: localhost
portNumber: 5432
Database name errada
Releasing all open resources ...
vulttur@vulttur:~/mydir/JDBCTutorial$
```

14.

```
vulttur@vulttur:~/mydir/JDBCTutorial$ ./comp2 MyQueries2 properties/postgres-properties.xml
Set the following properties:
dbms: postgresql
driver: com.mysql.cj.jdbc.Driver
dbName: postgres
userName: postgres
serverName: localhost
portNumber: 5432
Connected to databasepublic
SQLState: 42601
Error Code: 0
Message: ERROR: syntax error at or near "e"
  Posição: 212
Releasing all open resources ...
```

```
vulttur@vulttur:~/mydir/JDBCTutorial$ ./comp2 MyQueries2 properties/postgres-properties.xml
Set the following properties:
dbms: postgresql
driver: com.mysql.cj.jdbc.Driver
dbName: postgres
userName: postgres
serverName: localhost
portNumber: 5432
Connected to databasepublic
String SQL errada
Releasing all open resources ...
```

```java
if (sqlState.equalsIgnoreCase("42601"))
{
  System.out.println("String SQL errada");
  return true;
}
return false;
```

```
vulttur@vulttur:~/mydir/JDBCTutorial$ ./comp2 MyQueries2 properties/postgres-properties.xml
Set the following properties:
dbms: postgresql
driver: com.mysql.cj.jdbc.Driver
dbName: postgres
userName: postgres
serverName: localhost
portNumber: 5432
Connected to databasepublic
SQLState: 42P01
Error Code: 0
Message: ERROR: relation "emprestimos" does not exist
  Posição: 91
Releasing all open resources ...
vulttur@vulttur:~/mydir/JDBCTutorial$ ./comp2 JDBCUtilities properties/postgres-properties.xml
Reading properties file /home/vulttur/mydir/JDBCTutorial/properties/postgres-properties.xml
Set the following properties:
dbms: postgresql
driver: com.mysql.cj.jdbc.Driver
dbName: postgres
userName: postgres
serverName: localhost
portNumber: 5432
Connected to databasepublic
Releasing all open resources ...
vulttur@vulttur:~/mydir/JDBCTutorial$ ./comp2 MyQueries2 properties/postgres-properties.xml
Set the following properties:
dbms: postgresql
driver: com.mysql.cj.jdbc.Driver
dbName: postgres
userName: postgres
serverName: localhost
portNumber: 5432
Connected to databasepublic
Nome da Coluna Errada
Releasing all open resources ...
```

15. Para os erros no arquivo "Proprietis-error" fiz alteracoes na databse name causando erros porpositais e mudei o usuario e senha para causar erros tambem.

Já n arquivo da MyQueries fiz alteracoes na StringSQL, retirando a clausula WHERE e posteriormente alterando o nome de ma coluna, causando erros diferentes e mandando instrucoes de onde esta o erro para o usuario