# Lista de Exercícios 13
## SQL Embutida

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```java
package arbitros;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.sql.PreparedStatement;
import java.util.Scanner;
import java.util.logging.Level;
import java.util.logging.Logger;


public class Principal {
    static Scanner teclado = new Scanner (System.in);

    public static void main(String[] args){
        String url = "jdbc:postgresql://200.131.206.13:5432/vitorlemes";

        System.out.print("User: ");
        String user = teclado.nextLine();

        System.out.print("Senha: ");
        String password = teclado.nextLine();

        Connection conn = null;
        Statement stmt = null;
        ResultSet rs = null;
        String query = "";

        try {
            Class.forName("org.postgresql.Driver");
        } catch (ClassNotFoundException ex) {
            Logger.getLogger(Principal.class.getName()).log(Level.SEVERE, null, ex);
        }

        try{
            conn = DriverManager.getConnection(url, user, password);
```

```java
        stmt = conn.createStatement();
        stmt.execute("SET search_path TO see");

      int idpes;
      while(true){
         System.out.print("\nDigite o idpes do arbitro zero: ");
         idpes = teclado.nextInt();

         query = "WITH RECURSIVE arbitros (level, idpes, idcoo, nomepes) AS\n" +
         "(SELECT 0, root.idpes, root.idcoo, nomepes\n" +
         "FROM arbitro as root NATURAL JOIN pessoa  \n" +
         "WHERE root.idpes = " + idpes + " \n" +
         "      UNION ALL      \n" +
         "SELECT level+1, child.idpes, child.idcoo, pessoa.nomepes\n" +
         "FROM arbitros as parent, arbitro as child NATURAL JOIN pessoa\n" +
         "WHERE parent.idpes = child.idcoo AND child.idcoo <> child.idpes)\n" +
         "\n" +
         "SELECT DISTINCT level, idpes, idcoo, nomepes\n" +
         "FROM arbitros\n" +
         "ORDER BY 1,2,3;";

         ResultSet resultado = stmt.executeQuery(query);

         System.out.println("'level', 'idpes', 'idcoo', 'nomepes'");

         while(resultado.next()){
            int level = resultado.getInt("level");
            int idpesrs = resultado.getInt("idpes");
            int idcoo = resultado.getInt("idcoo");
            String nomepes = resultado.getString("nomepes");
            System.out.println("'" + level + "', '" + idpes + "', '" + idcoo + "', '" + nomepes + "'");
         }
      }
   }catch(SQLException e){
      System.out.println(e.getMessage());
   }
  }
}
```