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01 package DBLayer;
02 import java.sql.*;
03 import java.util.ArrayList;
04 import ModelLayer.*;
05
06 public class DBColumn implements IFDBColumn
07 {
08     private Connection con;
09
10     public DBColumn()
11     {
12         con = DbConnection.getInstance().getDBcon();
13     }
14
15     public ArrayList<Column> getAllColumn(boolean
16     retrieveAssociation)
17     {
18         return miscWhere("", retrieveAssociation);
19     }
20
21     public Column findColumn(int colNo, boolean
22     retrieveAssociation)
23     {
24         String wClause = " colNo = ' " + colNo + "'";
25         return singleWhere(wClause, retrieveAssociation);
26     }
27
28     public int createColumn(Column column) throws Exception
29     {
30         int rc = -1;
31         String query = "INSERT INTO mfColumn(colNo, hallNr) VALUES
32         ('"+
33             column.getColNo() + "', '" +
34             column.getHallNr() + "')";
35         System.out.println("insert : " + query);
36
37         try
38         {
39             Statement stmt = con.createStatement();
40             stmt.setQueryTimeout(5);
41             rc = stmt.executeUpdate(query);
42             stmt.close();
43         }
44         catch(SQLException ex)
45         {
46             System.out.println("Column er ikke oprettet");
47             throw new Exception("Column er ikke tilføjet");
48         }
49         return (rc);
50     }
51
52     public int deleteColumn(int colNo)
53     {
54         int rc = -1;
55
56         String qry = "DELETE FROM mfColumn WHERE colNo = ' " +
57         colNo + "'";
58         System.out.println(qry);
59         try
60         {
61             Statement stmt = con.createStatement();
62             stmt.setQueryTimeout(5);
63             rc = stmt.executeUpdate(qry);
64             stmt.close();

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65     }
66     catch(Exception ex)
67     {
68         System.out.println("Delete exception in Column db: "+
69             ex);
70     }
71     return(rc);
72 }
73
74 public int updateColumn(Column column)
75 {
76     Column colkobj = column;
77     int rc= -1;
78
79     String qry = "UPDATE mfColumn SET" +
80         "colNo = '" + colkobj.getColNo() + "', " +
81         "hallNr = '" + colkobj.getHallNr() + "', ";
82
83
84     System.out.println("Update query: " + qry);
85     try
86     {
87         Statement stmt = con.createStatement();
88         stmt.setQueryTimeout(5);
89         rc = stmt.executeUpdate(qry);
90
91         stmt.close();
92     }
93     catch(Exception ex)
94     {
95         System.out.println("Update exception in Column db:
96 " +
97         ex);
98     }
99     return(rc);
100 }
101 private String buildquery(String wClause)
102 {
103     String query = "SELECT colNo, hallNr FROM mfColumn";
104     if(wClause.length()>0)
105         query=query + " WHERE " + wClause;
106     return query;
107 }
108
109 private ArrayList<Column> miscWhere(String wClause, boolean
110 retrieveAssociation)
111 {
112     ResultSet results;
113     ArrayList<Column> columns = new ArrayList<Column>();
114
115     String query = buildquery(wClause);
116
117     try
118     {
119         Statement stmt = con.createStatement();
120         stmt.setQueryTimeout(5);
121         results = stmt.executeQuery(query);
122
123         while(results.next())
124         {
125             Column colobj = new Column();
126             colobj = buildColumns(results);
127             columns.add(colobj);

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128     }
129     stmt.close();
130     return columns;
131 }
132 catch(Exception e)
133 {
134     System.out.println(e.getMessage());
135     return null;
136 }
137
138
139 }
140
141 private Column singleWhere(String wClause, boolean
142 retrieveAssociation)
143 {
144     ResultSet results;
145     Column colobj = new Column();
146     String query = buildquery(wClause);
147     System.out.println(query);
148
149     try
150     {
151         Statement stmt = con.createStatement();
152         stmt.setQueryTimeout(5);
153         results = stmt.executeQuery(query);
154
155         if(results.next())
156         {
157             colobj = buildColumns(results);
158         }
159         stmt.close();
160     }
161     catch(Exception e)
162     {
163         System.out.println("Query exception: " + e);
164     }
165     return colobj;
166 }
167
168 private Column buildColumns(ResultSet results)
169 {
170     Column colObj = new Column();
171     try
172     {
173         colObj.setColNo(results.getInt("colNo"));
174         colObj.setHallNr(results.getInt("hallNr"));
175     }
176     catch(Exception e)
177     {
178         System.out.println("Error in building column");
179     }
180     return colObj;
181 }
182
183
184
185
186 }

```