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01 package DBLayer;
02
03 import java.sql.*;
04 import java.util.ArrayList;
05 import ModelLayer.*;
06
07 import ModelLayer.Cage;
08
09 public class DBHall implements IFDBHall
10 {
11     private Connection con;
12     public DBHall()
13     {
14         con = DbConnection.getInstance().getDBcon();
15     }
16     public ArrayList<Hall> getAllHalls (boolean
17     retrieveAssociation)
18     {
19         return miscWhere("", retrieveAssociation);
20     }
21
22     public Hall findHall(int hallNo, boolean retrieveAssociation)
23     {
24         String wClause = " hallNo = ' " + hallNo + "'";
25         return singleWhere(wClause, retrieveAssociation);
26     }
27
28     public int createHall(Hall hall) throws Exception
29     {
30         int rc = -1;
31         String query = "INSERT INTO mfHall(hallNo, farmCvr) VALUES
32         ('"+
33             hall.getHallNo() + "', '" +
34             hall.getFarmCvr() + "')";
35         System.out.println("insert : " + query);
36         try
37         {
38             Statement stmt = con.createStatement();
39             stmt.setQueryTimeout(5);
40             rc = stmt.executeUpdate(query);
41             stmt.close();
42         }
43         catch(SQLException ex)
44         {
45             System.out.println("Hall er ikke oprettet");
46             throw new Exception("Hall er ikke tilføjet");
47         }
48         return (rc);
49     }
50 }
51
52     public int deleteHall(int hallNo)
53     {
54         int rc = -1;
55
56         String qry = "DELETE FROM mfCage WHERE hallNo = ' " +
57         hallNo + "'";
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 Hall db: "+ex)
69         ;
70     }
71     return(rc);
72 }
73
74 public int updateHall(Hall hall)
75 {
76     Hall hallkobj = hall;
77     int rc= -1;
78
79     String qry = "UPDATE mfHall SET" +
80         "hallNo = '" + hallkobj.getHallNo()+"', " +
81         "FarmCvr = '" + hallkobj.getFarmCvr() + "', ";
82
83     System.out.println("Update query: " + qry);
84     try
85     {
86         Statement stmt = con.createStatement();
87         stmt.setQueryTimeout(5);
88         rc = stmt.executeUpdate(qry);
89
90         stmt.close();
91     }
92     catch(Exception ex)
93     {
94         System.out.println("Update exception in Hall db:
95 " + ex)
96         ;
97     }
98     return(rc);
99 }
100 private ArrayList<Hall> miscWhere(String wClause, boolean
101 retrieveAssociation)
102 {
103     ResultSet results;
104     ArrayList<Hall> hall = new ArrayList<Hall>();
105
106     String query = buildquery(wClause);
107     System.out.println(query);
108     try
109     {
110         Statement stmt = con.createStatement();
111         stmt.setQueryTimeout(5);
112         results = stmt.executeQuery(query);
113
114         while(results.next())
115         {
116             Hall hallobj = new Hall();
117             hallobj = buildHall(results);
118             hall.add(hallobj);
119         }
120         stmt.close();
121         return hall;
122     }
123     catch(Exception e)
124     {
125         System.out.println(e.getMessage());
126         return null;
127     }

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128     }
129     private Hall buildHall(ResultSet results)
130     {
131         Hall hallObj = new Hall();
132         try
133         {
134             hallObj.setHallNo(results.getInt("hallNo"));
135             hallObj.setFarmCvr(results.getInt("farmCvr"));
136         }
137         catch(Exception e)
138         {
139             System.out.println("Error in building hall");
140         }
141         return hallObj;
142     }
143 }
144 }
145 private String buildquery(String wClause)
146 {
147     String query = "SELECT hallNo, farmCvr FROM mfHall";
148     if(wClause.length()>0)
149         query=query + " WHERE " + wClause;
150     return query;
151 }
152 private Hall singleWhere(String wClause, boolean
153 retrieveAssociation)
154 {
155     ResultSet results;
156     Hall hallobj = new Hall();
157     String query = buildquery(wClause);
158     System.out.println(query);
159
160     try
161     {
162         Statement stmt = con.createStatement();
163         stmt.setQueryTimeout(5);
164         results = stmt.executeQuery(query);
165
166         if(results.next())
167         {
168             hallobj = buildHall(results);
169         }
170         stmt.close();
171     }
172     catch(Exception e)
173     {
174         System.out.println(" Query exception: " + e);
175     }
176     return hallobj;
177 }
178
179
180 }

```