

CategoryDAO.java

```
1 package model.dao;
2
3 import java.sql.Blob;
4
11
12 public class CategoryDAO extends DAO<Category> {
13     private static Map<String, String[]> COLUMNS;
14     private static List<String[]> searchColumns;
15
16     public CategoryDAO() throws Exception {
17         super("CATEGORY");
18         COLUMNS = new HashMap<String, String[]>();
19         searchColumns = new ArrayList<String[]>();
20
21         COLUMNS.put("name", new String[]{"NAME", "str"});
22         COLUMNS.put("desc", new String[]{"DESCRIPTION", "str"});
23         COLUMNS.put("pic", new String[]{"PICTURE", "str"});
24         COLUMNS.put("id", new String[]{"ID", "num"});
25
26         searchColumns.add(COLUMNS.get("name"));
27         searchColumns.add(COLUMNS.get("desc"));
28     }
29
30     @Override
31     public String convertToColumnName(String by) {
32         String result = COLUMNS.get("id")[0];
33
34         if (COLUMNS.containsKey(by) ||
35             COLUMNS.containsKey(by.toLowerCase()))
36         {
37             result = COLUMNS.get(by)[0];
38         }
39         else if (by.equals(COLUMNS.get("name")[0]))
40         {
41             result = COLUMNS.get("name")[0];
42         }
43         else if (by.toLowerCase().equals("description") ||
44             by.equals(COLUMNS.get("desc")[0]))
45         {
46             result = COLUMNS.get("desc")[0];
47         }
48         else if (by.toLowerCase().equals("picture") ||
49             by.equals(COLUMNS.get("pic")[0]))
50         {
51             result = COLUMNS.get("pic")[0];
52         }
53     }
54 }
```

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49     }
50     else if (by.equals(COLUMNS.get("id")[0]))
51     {
52         result = COLUMNS.get("id")[0];
53     }
54     return result;
55 }
56
57 @Override
58 public List<String[]> getSearchColumns() {
59     return searchColumns;
60 }
61
62 @Override
63 public Map<String, String[]> getColumns() {
64     return COLUMNS;
65 }
66
67 @Override
68 public Category createBean(ResultSet r) throws Exception {
69     Category result = new Category();
70     result.setId(getId(r));
71     result.setName(getName(r));
72     result.setDescription(getDescription(r));
73     result.setPicture(getPicture(r));
74     return result;
75 }
76
77 public String getName(ResultSet r) throws Exception {
78     return r.getString(COLUMNS.get("name")[0]);
79 }
80
81 public String getDescription(ResultSet r) throws Exception {
82     return r.getString(COLUMNS.get("desc")[0]);
83 }
84
85 public int getId(ResultSet r) throws Exception {
86     return r.getInt(COLUMNS.get("id")[0]);
87 }
88
89 public Blob getPicture(ResultSet r) throws Exception {
90     return r.getBlob(COLUMNS.get("pic")[0]);
91 }
92
```

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```
93     public static void main(String[] args) throws Exception {
94         CategoryDAO catDao = new CategoryDAO();
95         System.out.println(catDao.getAll().toString());
96     }
97 }
98
```