|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | [**Package**](http://docs.google.com/rain/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DAO.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-all.html) | | |  |
| [**PREV CLASS**](http://docs.google.com/rain/Constants.html)   [**NEXT CLASS**](http://docs.google.com/rain/DAOException.html) | [**FRAMES**](http://docs.google.com/index.html?rain/DAO.html)    [**NO FRAMES**](http://docs.google.com/DAO.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#lnxbz9) | [METHOD](#1ksv4uv) |

## **rain**

Class DAO

[java.lang.Object](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html)  
 **rain.DAO**

**Direct Known Subclasses:** [MusicDAO](http://docs.google.com/rain/MusicDAO.html), [VideoDAO](http://docs.google.com/rain/VideoDAO.html)

public abstract class **DAO**extends [Object](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html)

DAO: Base class for the data accessors

**Author:** 570 Development Team

|  |  |
| --- | --- |
| **Field Summary** | |
| protected  [DataSource](http://docs.google.com/docs/jdk_docs/api/javax/sql/DataSource.html) | [**dataSource**](http://docs.google.com/rain/DAO.html#dataSource)            Reference to the data source |
| protected  [Logger](http://docs.google.com/docs/jdk_docs/api/java/util/logging/Logger.html) | [**logger**](http://docs.google.com/rain/DAO.html#logger)            Reference to logger |
| static int | [**SORT\_BY\_PRICE**](http://docs.google.com/rain/DAO.html#SORT_BY_PRICE)            Flag to sort by price |
| static int | [**SORT\_BY\_STOCK\_COUNT**](http://docs.google.com/rain/DAO.html#SORT_BY_STOCK_COUNT)            Flag to sort by stock count |
| static int | [**SORT\_BY\_TITLE**](http://docs.google.com/rain/DAO.html#SORT_BY_TITLE)            Flag to sort by title |

|  |  |
| --- | --- |
| **Constructor Summary** | |
| [**DAO**](http://docs.google.com/rain/DAO.html#DAO(javax.sql.DataSource))([DataSource](http://docs.google.com/docs/jdk_docs/api/javax/sql/DataSource.html) theDataSource)            Construct the DAO based on data source |

|  |  |
| --- | --- |
| **Method Summary** | |
| protected  void | [**cleanup**](http://docs.google.com/rain/DAO.html#cleanup(java.sql.ResultSet,%20java.sql.Statement,%20java.sql.Connection))([ResultSet](http://docs.google.com/docs/jdk_docs/api/java/sql/ResultSet.html) myRs, [Statement](http://docs.google.com/docs/jdk_docs/api/java/sql/Statement.html) myStmt, [Connection](http://docs.google.com/docs/jdk_docs/api/java/sql/Connection.html) tempConn)            Utility method to clean up database resources. |
| protected  void | [**log**](http://docs.google.com/rain/DAO.html#log(java.lang.Object))([Object](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html) message)            Log a message |
| protected  void | [**logError**](http://docs.google.com/rain/DAO.html#logError(java.lang.Object,%20java.lang.Throwable))([Object](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html) message, [Throwable](http://docs.google.com/docs/jdk_docs/api/java/lang/Throwable.html) thrown)            Log an error w/ the given message |
| protected  void | [**logError**](http://docs.google.com/rain/DAO.html#logError(java.lang.Throwable))([Throwable](http://docs.google.com/docs/jdk_docs/api/java/lang/Throwable.html) thrown)            Log an error |
| protected  void | [**setDataSource**](http://docs.google.com/rain/DAO.html#setDataSource(javax.sql.DataSource))([DataSource](http://docs.google.com/docs/jdk_docs/api/javax/sql/DataSource.html) theDataSource)            Set the data source |

|  |
| --- |
| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html) |
| [clone](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html#clone()), [equals](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html#toString()), [wait](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html#wait()), [wait](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html#wait(long,%20int)) |

|  |
| --- |
| **Field Detail** |

### dataSource

protected [DataSource](http://docs.google.com/docs/jdk_docs/api/javax/sql/DataSource.html) **dataSource**

Reference to the data source

### logger

protected [Logger](http://docs.google.com/docs/jdk_docs/api/java/util/logging/Logger.html) **logger**

Reference to logger

### SORT\_BY\_TITLE

public static final int **SORT\_BY\_TITLE**

Flag to sort by title

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#rain.DAO.SORT_BY_TITLE)

### SORT\_BY\_PRICE

public static final int **SORT\_BY\_PRICE**

Flag to sort by price

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#rain.DAO.SORT_BY_PRICE)

### SORT\_BY\_STOCK\_COUNT

public static final int **SORT\_BY\_STOCK\_COUNT**

Flag to sort by stock count

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#rain.DAO.SORT_BY_STOCK_COUNT)

|  |
| --- |
| **Constructor Detail** |

### DAO

public **DAO**([DataSource](http://docs.google.com/docs/jdk_docs/api/javax/sql/DataSource.html) theDataSource)

Construct the DAO based on data source

**Parameters:**theDataSource -

|  |
| --- |
| **Method Detail** |

### setDataSource

protected void **setDataSource**([DataSource](http://docs.google.com/docs/jdk_docs/api/javax/sql/DataSource.html) theDataSource)

Set the data source

**Parameters:**theDataSource -

### cleanup

protected void **cleanup**([ResultSet](http://docs.google.com/docs/jdk_docs/api/java/sql/ResultSet.html) myRs,  
 [Statement](http://docs.google.com/docs/jdk_docs/api/java/sql/Statement.html) myStmt,  
 [Connection](http://docs.google.com/docs/jdk_docs/api/java/sql/Connection.html) tempConn)

Utility method to clean up database resources.

**Parameters:**myRs - the result setmyStmt - the statmenttempConn - the connection

### log

protected void **log**([Object](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html) message)

Log a message

**Parameters:**message -

### logError

protected void **logError**([Object](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html) message,  
 [Throwable](http://docs.google.com/docs/jdk_docs/api/java/lang/Throwable.html) thrown)

Log an error w/ the given message

**Parameters:**message - thrown -

### logError

protected void **logError**([Throwable](http://docs.google.com/docs/jdk_docs/api/java/lang/Throwable.html) thrown)

Log an error

**Parameters:**thrown -

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | [**Package**](http://docs.google.com/rain/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DAO.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-all.html) | | |  |
| [**PREV CLASS**](http://docs.google.com/rain/Constants.html)   [**NEXT CLASS**](http://docs.google.com/rain/DAOException.html) | [**FRAMES**](http://docs.google.com/index.html?rain/DAO.html)    [**NO FRAMES**](http://docs.google.com/DAO.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#lnxbz9) | [METHOD](#1ksv4uv) |