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| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | [**Package**](http://docs.google.com/rain/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MusicRecording.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/MusicDAO.html)   [**NEXT CLASS**](http://docs.google.com/rain/Product.html) | [**FRAMES**](http://docs.google.com/index.html?rain/MusicRecording.html)    [**NO FRAMES**](http://docs.google.com/MusicRecording.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#lnxbz9) |

## **rain**

Class MusicRecording

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

**All Implemented Interfaces:** [Serializable](http://docs.google.com/docs/jdk_docs/api/java/io/Serializable.html), [Comparable](http://docs.google.com/docs/jdk_docs/api/java/lang/Comparable.html)

public class **MusicRecording**extends [Recording](http://docs.google.com/rain/Recording.html)

This class represents a music recording. It contains additional data members for the artist name and a list of tracks (ie songs).

Usage Example:  
  
 MusicRecording myRecording = new MusicRecording("John Lennon", myTrackList, "Double Fantasy",  
 12.99, "Rock", "my\_image.gif");

**Author:** 570 Development Team **See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#rain.MusicRecording)

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| **Constructor Summary** | |
| [**MusicRecording**](http://docs.google.com/rain/MusicRecording.html#MusicRecording())()            Default constructor |
| [**MusicRecording**](http://docs.google.com/rain/MusicRecording.html#MusicRecording(java.sql.ResultSet))([ResultSet](http://docs.google.com/docs/jdk_docs/api/java/sql/ResultSet.html) theResultSet)            Constructs an music recoding based on a result set row. |
| [**MusicRecording**](http://docs.google.com/rain/MusicRecording.html#MusicRecording(java.lang.String,%20java.lang.String,%20double,%20java.lang.String,%20java.lang.String,%20int))([String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theArtist, [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theTitle, double thePrice, [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theCategory, [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theImageName, int theRecordingId)            Creates a MusicRecording object with given parameter values |
| [**MusicRecording**](http://docs.google.com/rain/MusicRecording.html#MusicRecording(java.lang.String,%20rain.Track%5B%5D,%20java.lang.String,%20double,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theArtist, [Track](http://docs.google.com/rain/Track.html)[] theTrackList, [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theTitle, double thePrice, [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theCategory, [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theImageName)            Creates a MusicRecording object with given parameter values |
| [**MusicRecording**](http://docs.google.com/rain/MusicRecording.html#MusicRecording(java.lang.String,%20rain.Track%5B%5D,%20java.lang.String,%20double,%20java.lang.String,%20java.lang.String,%20int))([String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theArtist, [Track](http://docs.google.com/rain/Track.html)[] theTrackList, [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theTitle, double thePrice, [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theCategory, [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theImageName, int theRecordingId)            Creates a MusicRecording object with given parameter values |

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| **Method Summary** | |
| int | [**compareTo**](http://docs.google.com/rain/MusicRecording.html#compareTo(java.lang.Object))([Object](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html) object)            Allow us to sort the recordings by artist name |
| [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) | [**getArtist**](http://docs.google.com/rain/MusicRecording.html#getArtist())()            Returns the artist name |
| [Duration](http://docs.google.com/rain/Duration.html) | [**getDuration**](http://docs.google.com/rain/MusicRecording.html#getDuration())()            Returns the recording duration. |
| [Track](http://docs.google.com/rain/Track.html)[] | [**getTrackList**](http://docs.google.com/rain/MusicRecording.html#getTrackList())()            Returns the track list |
| void | [**setArtist**](http://docs.google.com/rain/MusicRecording.html#setArtist(java.lang.String))([String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theArtist)            Sets the artist name |
| void | [**setTrackList**](http://docs.google.com/rain/MusicRecording.html#setTrackList(rain.Track%5B%5D))([Track](http://docs.google.com/rain/Track.html)[] theTrackList)            Sets the track list |
| [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) | [**toString**](http://docs.google.com/rain/MusicRecording.html#toString())()            Returns the artist name and title of recording |

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| **Methods inherited from class rain.**[**Recording**](http://docs.google.com/rain/Recording.html) |
| [getCategory](http://docs.google.com/rain/Recording.html#getCategory()), [getId](http://docs.google.com/rain/Recording.html#getId()), [getImageName](http://docs.google.com/rain/Recording.html#getImageName()), [getName](http://docs.google.com/rain/Recording.html#getName()), [getPrice](http://docs.google.com/rain/Recording.html#getPrice()), [getStockCount](http://docs.google.com/rain/Recording.html#getStockCount()), [getTitle](http://docs.google.com/rain/Recording.html#getTitle()), [isInStock](http://docs.google.com/rain/Recording.html#isInStock()), [setCategory](http://docs.google.com/rain/Recording.html#setCategory(java.lang.String)), [setId](http://docs.google.com/rain/Recording.html#setId(int)), [setImageName](http://docs.google.com/rain/Recording.html#setImageName(java.lang.String)), [setName](http://docs.google.com/rain/Recording.html#setName(java.lang.String)), [setPrice](http://docs.google.com/rain/Recording.html#setPrice(double)), [setStockCount](http://docs.google.com/rain/Recording.html#setStockCount(int)), [setTitle](http://docs.google.com/rain/Recording.html#setTitle(java.lang.String)) |

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| **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()), [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)) |

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| **Constructor Detail** |

### MusicRecording

public **MusicRecording**()

Default constructor

### MusicRecording

public **MusicRecording**([String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theArtist,  
 [Track](http://docs.google.com/rain/Track.html)[] theTrackList,  
 [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theTitle,  
 double thePrice,  
 [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theCategory,  
 [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theImageName)

Creates a MusicRecording object with given parameter values

### MusicRecording

public **MusicRecording**([String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theArtist,  
 [Track](http://docs.google.com/rain/Track.html)[] theTrackList,  
 [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theTitle,  
 double thePrice,  
 [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theCategory,  
 [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theImageName,  
 int theRecordingId)

Creates a MusicRecording object with given parameter values

### MusicRecording

public **MusicRecording**([String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theArtist,  
 [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theTitle,  
 double thePrice,  
 [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theCategory,  
 [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theImageName,  
 int theRecordingId)

Creates a MusicRecording object with given parameter values

### MusicRecording

public **MusicRecording**([ResultSet](http://docs.google.com/docs/jdk_docs/api/java/sql/ResultSet.html) theResultSet)  
 throws [SQLException](http://docs.google.com/docs/jdk_docs/api/java/sql/SQLException.html)

Constructs an music recoding based on a result set row.

The result set should contain the following columns:

* recording\_id
* artist\_name
* title
* category
* image\_name
* price
* stock\_count

When using this constructor, you'll have to set the track list by calling the setTrackList(Track[] theTrackList) method.

**Throws:** [SQLException](http://docs.google.com/docs/jdk_docs/api/java/sql/SQLException.html) - thrown if column doesn't exist

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| **Method Detail** |

### getArtist

public [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) **getArtist**()

Returns the artist name

### setArtist

public void **setArtist**([String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) theArtist)

Sets the artist name

### getTrackList

public [Track](http://docs.google.com/rain/Track.html)[] **getTrackList**()

Returns the track list

### setTrackList

public void **setTrackList**([Track](http://docs.google.com/rain/Track.html)[] theTrackList)

Sets the track list

### getDuration

public [Duration](http://docs.google.com/rain/Duration.html) **getDuration**()

Returns the recording duration. Overrides the method from Recording. Iterates over the list of tracks and keeps a running total of each track's duration.

**Specified by:**[getDuration](http://docs.google.com/rain/Recording.html#getDuration()) in class [Recording](http://docs.google.com/rain/Recording.html)

### toString

public [String](http://docs.google.com/docs/jdk_docs/api/java/lang/String.html) **toString**()

Returns the artist name and title of recording

**Overrides:**[toString](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html#toString()) in class [Object](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html)

### compareTo

public int **compareTo**([Object](http://docs.google.com/docs/jdk_docs/api/java/lang/Object.html) object)

Allow us to sort the recordings by artist name

**Specified by:**[compareTo](http://docs.google.com/docs/jdk_docs/api/java/lang/Comparable.html#compareTo(T)) in interface [Comparable](http://docs.google.com/docs/jdk_docs/api/java/lang/Comparable.html)**Overrides:**[compareTo](http://docs.google.com/rain/Recording.html#compareTo(java.lang.Object)) in class [Recording](http://docs.google.com/rain/Recording.html)

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| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | [**Package**](http://docs.google.com/rain/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MusicRecording.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/MusicDAO.html)   [**NEXT CLASS**](http://docs.google.com/rain/Product.html) | [**FRAMES**](http://docs.google.com/index.html?rain/MusicRecording.html)    [**NO FRAMES**](http://docs.google.com/MusicRecording.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
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