Package org.springframework.data.domain

Class Sort

java.lang.Object

org.springframework.data.domain.Sort

All Implemented Interfaces:

Serializable , Iterable <Sort.Order>, Supplier <Stream <Sort.Order>>,
Streamable<Sort.Order>

Direct Known Subclasses:

QSort, RevisionSort, Sort. TypedSort

public class Sort
extends Object
implements Streamable<Sort.Order>, Serializable

Sort option for queries. You have to provide at least a list of properties to sort for that must not include null or empty strings. The direction defaults to DEFAULT DIRECTION.

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See Also:

Serialized Form

Nested Class Summary

Nested Classes

Modifier and Type	Class	Description
static enum	Sort.Direction	Enumeration for sort directions.
static enum	Sort.NullHandling	Enumeration for null handling hints that can be used in Sort.Order expressions.
static class	Sort.Order	PropertyPath implements the pairing of an Sort.Direction and a property.
static class	Sort.TypedSort <t></t>	Extension of Sort to use method handles to define properties to sort by.

Field Summary

Fields

Modifier and Type Field Description

static final **Sort.Direction DEFAULT_DIRECTION**

Constructor Summary

Constructors

Modifier Constructor Description

protected Sort(List <Sort.Order> orders)

Method Summary

All Methods Static Methods Instance Methods Concrete Methods

Modifier and Type	Method	Description
Sort	<pre>and(Sort sort)</pre>	Returns a new Sort consisting of the Sort.Orders of the current Sort combined with the given ones.
Sort	ascending()	Returns a new Sort with the current setup but ascending order direction.
static Sort	<pre>by(String properties)</pre>	Creates a new Sort for the given properties.
static Sort	<pre>by(List <sort.order> orders)</sort.order></pre>	Creates a new Sort for the given Sort.Orders.
static Sort	<pre>by (Sort.Direction direction, String properties)</pre>	Creates a new Sort for the given Sort.Direction and properties.
static Sort	<pre>by(Sort.Order orders)</pre>	Creates a new Sort for the given Sort.Orders.
Sort	<pre>descending()</pre>	Returns a new Sort with the current setup but descending order direction.
<pre>protected List <sort.order></sort.order></pre>	doReverse()	
boolean	<pre>equals(Object obj)</pre>	
Sort.Order	<pre>getOrderFor(String property)</pre>	Returns the order registered for the given property.
int	hashCode()	
boolean	<pre>isEmpty()</pre>	Returns whether the current Streamable is empty.
boolean	isSorted()	
boolean	<pre>isUnsorted()</pre>	
Iterator <sort.order></sort.order>	iterator()	
Sort	reverse()	Returns a new Sort with reversed sort Sort.Orders turning effectively asccending into descending sort order and vice versa.

static sort(Class <T> type) Creates a new

<T> Sort.TypedSort<T> Sort.TypedSort for the given

type.

String toString()

static **Sort unsorted**() Returns a Sort instances

representing no sorting setup

at all.

Methods inherited from class java.lang.Object

clone , finalize , getClass , notify , notifyAll , wait , wait , wait

Methods inherited from interface java.lang.lterable

forEach , spliterator

Methods inherited from interface org.springframework.data.util.Streamable

and, and, and, filter, flatMap, get, map, stream, toList, toSet

Field Details

DEFAULT_DIRECTION

public static final Sort.Direction DEFAULT_DIRECTION

Constructor Details

Sort

protected Sort(List <Sort.Order> orders)

Method Details

by

public static Sort by(String ... properties)

Creates a new Sort for the given properties. **Parameters:** properties - must not be null. Returns: by public static Sort by(List <Sort.Order> orders) Creates a new Sort for the given Sort.Orders. **Parameters:** orders - must not be null. **Returns:** by public static Sort by(Sort.Order... orders) Creates a new Sort for the given Sort.Orders. **Parameters:** orders - must not be null. **Returns:** by public static Sort by(Sort.Direction direction, String ... properties) Creates a new Sort for the given Sort.Direction and properties. **Parameters:** direction - must not be null. properties - must not be null. **Returns:** sort

public static <T> Sort.TypedSort<T> sort(Class <T> type)

Creates a new Sort. TypedSort for the given type.

Parameters: type - must not be null. **Returns:** Since: 2.2 unsorted public static Sort unsorted() Returns a Sort instances representing no sorting setup at all. Returns: descending public Sort descending() Returns a new Sort with the current setup but descending order direction. Returns: ascending public Sort ascending() Returns a new Sort with the current setup but ascending order direction. Returns: isSorted public boolean isSorted() **isEmpty** public boolean isEmpty() Description copied from interface: Streamable Returns whether the current Streamable is empty. Specified by: isEmpty in interface Streamable<Sort.Order>

Returns:

isUnsorted

public boolean isUnsorted()

and

```
public Sort and(Sort sort)
```

Returns a new Sort consisting of the Sort.Orders of the current Sort combined with the given ones.

Parameters:

sort - must not be null.

Returns:

reverse

```
public Sort reverse()
```

Returns a new Sort with reversed sort Sort.Orders turning effectively asccending into descending sort order and vice versa.

Returns:

a new Sort object with reversed sort orders applied.

Since:

3.1

doReverse

```
protected List <Sort.Order> doReverse()
```

getOrderFor

```
@Nullable
```

```
public Sort.Order getOrderFor(String property)
```

Returns the order registered for the given property.

Parameters:

property -

Returns: iterator public Iterator <Sort.Order> iterator() Specified by: iterator in interface Iterable <Sort.Order> equals public boolean equals(@Nullable Object obj) **Overrides:** equals in class Object hashCode public int hashCode() Overrides: hashCode in class Object toString public String toString()

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Overrides:

toString in class Object