| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Date.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/sql/DataTruncation.html)   [**NEXT CLASS**](http://docs.google.com/java/sql/Driver.html) | [**FRAMES**](http://docs.google.com/index.html?java/sql/Date.html)    [**NO FRAMES**](http://docs.google.com/Date.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#17dp8vu) |

## **java.sql**

Class Date

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.util.Date](http://docs.google.com/java/util/Date.html)  
 **java.sql.Date**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [Cloneable](http://docs.google.com/java/lang/Cloneable.html), [Comparable](http://docs.google.com/java/lang/Comparable.html)<[Date](http://docs.google.com/java/util/Date.html)>

public class **Date**extends [Date](http://docs.google.com/java/util/Date.html)

A thin wrapper around a millisecond value that allows JDBC to identify this as an SQL DATE value. A milliseconds value represents the number of milliseconds that have passed since January 1, 1970 00:00:00.000 GMT.

To conform with the definition of SQL DATE, the millisecond values wrapped by a java.sql.Date instance must be 'normalized' by setting the hours, minutes, seconds, and milliseconds to zero in the particular time zone with which the instance is associated.

**See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#java.sql.Date)

| **Constructor Summary** | |
| --- | --- |
| [**Date**](http://docs.google.com/java/sql/Date.html#Date(int,%20int,%20int))(int year, int month, int day)  **Deprecated.** *instead use the constructor Date(long date)* |
| [**Date**](http://docs.google.com/java/sql/Date.html#Date(long))(long date)            Constructs a Date object using the given milliseconds time value. |

| **Method Summary** | |
| --- | --- |
| int | [**getHours**](http://docs.google.com/java/sql/Date.html#getHours())()  **Deprecated.** |
| int | [**getMinutes**](http://docs.google.com/java/sql/Date.html#getMinutes())()  **Deprecated.** |
| int | [**getSeconds**](http://docs.google.com/java/sql/Date.html#getSeconds())()  **Deprecated.** |
| void | [**setHours**](http://docs.google.com/java/sql/Date.html#setHours(int))(int i)  **Deprecated.** |
| void | [**setMinutes**](http://docs.google.com/java/sql/Date.html#setMinutes(int))(int i)  **Deprecated.** |
| void | [**setSeconds**](http://docs.google.com/java/sql/Date.html#setSeconds(int))(int i)  **Deprecated.** |
| void | [**setTime**](http://docs.google.com/java/sql/Date.html#setTime(long))(long date)            Sets an existing Date object using the given milliseconds time value. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/java/sql/Date.html#toString())()            Formats a date in the date escape format yyyy-mm-dd. |
| static [Date](http://docs.google.com/java/sql/Date.html) | [**valueOf**](http://docs.google.com/java/sql/Date.html#valueOf(java.lang.String))([String](http://docs.google.com/java/lang/String.html) s)            Converts a string in JDBC date escape format to a Date value. |

| **Methods inherited from class java.util.**[**Date**](http://docs.google.com/java/util/Date.html) |
| --- |
| [after](http://docs.google.com/java/util/Date.html#after(java.util.Date)), [before](http://docs.google.com/java/util/Date.html#before(java.util.Date)), [clone](http://docs.google.com/java/util/Date.html#clone()), [compareTo](http://docs.google.com/java/util/Date.html#compareTo(java.util.Date)), [equals](http://docs.google.com/java/util/Date.html#equals(java.lang.Object)), [getDate](http://docs.google.com/java/util/Date.html#getDate()), [getDay](http://docs.google.com/java/util/Date.html#getDay()), [getMonth](http://docs.google.com/java/util/Date.html#getMonth()), [getTime](http://docs.google.com/java/util/Date.html#getTime()), [getTimezoneOffset](http://docs.google.com/java/util/Date.html#getTimezoneOffset()), [getYear](http://docs.google.com/java/util/Date.html#getYear()), [hashCode](http://docs.google.com/java/util/Date.html#hashCode()), [parse](http://docs.google.com/java/util/Date.html#parse(java.lang.String)), [setDate](http://docs.google.com/java/util/Date.html#setDate(int)), [setMonth](http://docs.google.com/java/util/Date.html#setMonth(int)), [setYear](http://docs.google.com/java/util/Date.html#setYear(int)), [toGMTString](http://docs.google.com/java/util/Date.html#toGMTString()), [toLocaleString](http://docs.google.com/java/util/Date.html#toLocaleString()), [UTC](http://docs.google.com/java/util/Date.html#UTC(int,%20int,%20int,%20int,%20int,%20int)) |

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

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

### Date

public **Date**(int year,  
 int month,  
 int day)

**Deprecated.** *instead use the constructor Date(long date)*

Constructs a Date object initialized with the given year, month, and day.

The result is undefined if a given argument is out of bounds.

**Parameters:**year - the year minus 1900; must be 0 to 8099. (Note that 8099 is 9999 minus 1900.)month - 0 to 11day - 1 to 31

### Date

public **Date**(long date)

Constructs a Date object using the given milliseconds time value. If the given milliseconds value contains time information, the driver will set the time components to the time in the default time zone (the time zone of the Java virtual machine running the application) that corresponds to zero GMT.

**Parameters:**date - milliseconds since January 1, 1970, 00:00:00 GMT not to exceed the milliseconds representation for the year 8099. A negative number indicates the number of milliseconds before January 1, 1970, 00:00:00 GMT.

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

### setTime

public void **setTime**(long date)

Sets an existing Date object using the given milliseconds time value. If the given milliseconds value contains time information, the driver will set the time components to the time in the default time zone (the time zone of the Java virtual machine running the application) that corresponds to zero GMT.

**Overrides:**[setTime](http://docs.google.com/java/util/Date.html#setTime(long)) in class [Date](http://docs.google.com/java/util/Date.html) **Parameters:**date - milliseconds since January 1, 1970, 00:00:00 GMT not to exceed the milliseconds representation for the year 8099. A negative number indicates the number of milliseconds before January 1, 1970, 00:00:00 GMT.

### valueOf

public static [Date](http://docs.google.com/java/sql/Date.html) **valueOf**([String](http://docs.google.com/java/lang/String.html) s)

Converts a string in JDBC date escape format to a Date value.

**Parameters:**s - a String object representing a date in in the format "yyyy-mm-dd" **Returns:**a java.sql.Date object representing the given date **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the date given is not in the JDBC date escape format (yyyy-mm-dd)

### toString

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

Formats a date in the date escape format yyyy-mm-dd.

**Overrides:**[toString](http://docs.google.com/java/util/Date.html#toString()) in class [Date](http://docs.google.com/java/util/Date.html) **Returns:**a String in yyyy-mm-dd format**See Also:**[Date.toLocaleString()](http://docs.google.com/java/util/Date.html#toLocaleString()), [Date.toGMTString()](http://docs.google.com/java/util/Date.html#toGMTString())

### getHours

public int **getHours**()

**Deprecated.**

This method is deprecated and should not be used because SQL Date values do not have a time component.

**Overrides:**[getHours](http://docs.google.com/java/util/Date.html#getHours()) in class [Date](http://docs.google.com/java/util/Date.html) **Returns:**the hour represented by this date. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if this method is invoked**See Also:**[setHours(int)](http://docs.google.com/java/sql/Date.html#setHours(int))

### getMinutes

public int **getMinutes**()

**Deprecated.**

This method is deprecated and should not be used because SQL Date values do not have a time component.

**Overrides:**[getMinutes](http://docs.google.com/java/util/Date.html#getMinutes()) in class [Date](http://docs.google.com/java/util/Date.html) **Returns:**the number of minutes past the hour represented by this date. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if this method is invoked**See Also:**[setMinutes(int)](http://docs.google.com/java/sql/Date.html#setMinutes(int))

### getSeconds

public int **getSeconds**()

**Deprecated.**

This method is deprecated and should not be used because SQL Date values do not have a time component.

**Overrides:**[getSeconds](http://docs.google.com/java/util/Date.html#getSeconds()) in class [Date](http://docs.google.com/java/util/Date.html) **Returns:**the number of seconds past the minute represented by this date. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if this method is invoked**See Also:**[setSeconds(int)](http://docs.google.com/java/sql/Date.html#setSeconds(int))

### setHours

public void **setHours**(int i)

**Deprecated.**

This method is deprecated and should not be used because SQL Date values do not have a time component.

**Overrides:**[setHours](http://docs.google.com/java/util/Date.html#setHours(int)) in class [Date](http://docs.google.com/java/util/Date.html) **Parameters:**i - the hour value. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if this method is invoked**See Also:**[getHours()](http://docs.google.com/java/sql/Date.html#getHours())

### setMinutes

public void **setMinutes**(int i)

**Deprecated.**

This method is deprecated and should not be used because SQL Date values do not have a time component.

**Overrides:**[setMinutes](http://docs.google.com/java/util/Date.html#setMinutes(int)) in class [Date](http://docs.google.com/java/util/Date.html) **Parameters:**i - the value of the minutes. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if this method is invoked**See Also:**[getMinutes()](http://docs.google.com/java/sql/Date.html#getMinutes())

### setSeconds

public void **setSeconds**(int i)

**Deprecated.**

This method is deprecated and should not be used because SQL Date values do not have a time component.

**Overrides:**[setSeconds](http://docs.google.com/java/util/Date.html#setSeconds(int)) in class [Date](http://docs.google.com/java/util/Date.html) **Parameters:**i - the seconds value. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if this method is invoked**See Also:**[getSeconds()](http://docs.google.com/java/sql/Date.html#getSeconds())

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Date.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/sql/DataTruncation.html)   [**NEXT CLASS**](http://docs.google.com/java/sql/Driver.html) | [**FRAMES**](http://docs.google.com/index.html?java/sql/Date.html)    [**NO FRAMES**](http://docs.google.com/Date.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#17dp8vu) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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