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Working with Date and Time in Java

Posted on November 21, 2014 by Arulkumaran Kumaraswamipillai — No

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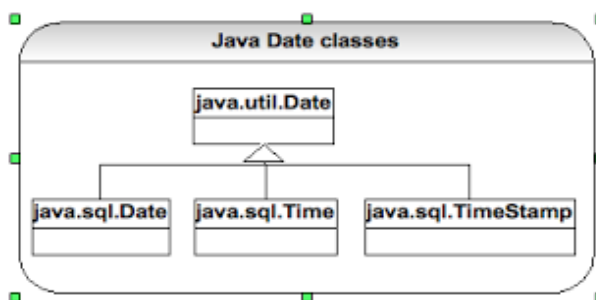
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Q. What is the difference between **java.sql.Date** and **java.util.Date**?

A. **java.util.Date** supports both date and time. **java.sql.Date** supports only date, **java.sql.Time** supports only time, and **java.sql.TimeStamp** supports both date and time.



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Q. Why should you favor using the joda-time library for date time operations?

A. The Java Date and Calendar classes are badly designed. The Joda Time library is less verbose and more intuitive. Here are a few examples to prove it.

Example 1: You may think it is midnight 1st of Jan 2009

```
1 Calendar cal = Calendar.getInstance();
2 cal.set(2009, 1, 1, 0, 0, 0);
```

But the above one represents 1st of Jan 2009 because months are zero based. There is no consistency. Some indexes start with zero and others start with 1. Better approach is to use

```
1 Calendar cal = Calendar.getInstance();
2 cal.set(2009, Calendar.JANUARY, 1, 0, 0, 0);
```

Joda is even better

```
1 DateTime dateTime = new DateTime(2009, 1, 1, 0, 0, 0);
```

Example 2: To add 60 days to the above date, in Java Date

```
1 cal.add(Calendar.DAY_OF_MONTH, 60);
```

In Joda, it is more intuitive

```
1 dateTime.plusDays(60);
```

Example 3: To format the above in Java Date

02: ♥♦ Java Con

03: ♦ 9 Core Jav

04: ♦ Top 10 mos

☐ Data types (6)

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08: ♦ Write code

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Top 5 OOPs tips

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☐ GC (2)

♦ Java Garbage

```

1 final String FORMAT = "yyyy/MMM/dd HH:mm:ss";
2 // define it locally as this class is not thread-
3 SimpleDateFormat sdf = new SimpleDateFormat(FORMA
4 System.out.println(sdf.format(cal.getTime( )));

```

In Joda

```

1 final String FORMAT = "yyyy/MMM/dd HH:mm:ss";
2 System.out.println(dateTime.plusDays(60).toString

```

No wonder why this library will be included in Jav 8. Till include the Joda jar to your project.

Q. In Joda, can you explain the concepts of **Instant**, **Duration**, **Partial**, and **Period**?

A.

Instant: is the most commonly used concept in Joda. It is a point in time in **nanoseconds** from January 1st 1970. It is an immutable class. If you want to mutate, then use **MutableDateTime** class.

```

1 DateTime dt = new DateTime(); // current time
2 int month = dt.getMonth(); // gets the current
3 int month = dt.month().get(); // alternative way

```

Duration: is the amount of time measured in nanoseconds.

instant + duration = instant

```

1 DateTime start = new DateTime(2004, 12, 25, 0, 0,
2 DateTime end = new DateTime(2005, 1, 1, 0, 0, 0,
3
4 // duration in ms between two instants
5 Duration dur = new Duration(start, end);
6
7 // calc will be the same as end
8 DateTime calc = start.plus(dur);

```

03: Java GC tun

Generics (5)

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♦ Tree traversal :

♥ ♦ Java coding

Partial: is a partial date and time representation. All implementations represent local dates and times, and do not reference a time zone. E.g. `LocalDate`, `LocalDateTime`, `LocalTime`, etc.

partial + missing fields + time zone = instant

```
1 LocalDate date = new LocalDate(2004, 12, 25);
2 LocalTime time = new LocalTime(12, 20);
3
4 // merge, resulting in 2004-25-12T12:20 (default
5 DateTime dt = date.toDateTime(time);
```

Period: is a period of time defined in terms of fields, for example, 2 years 3 months 5 days and 7 hours. This differs from a duration in that it is inexact in terms of milliseconds.

```
1 LocalTime time = LocalTime.now();
2 LocalTime newTime;
3 Period p = Period.of(5, HOURS);
4 //add 5 hours to current time
5 newTime = time.plus(p);
```

Q. How will you round the time to a minute?

A.

```
1 Instant date = new Instant(); // immutable
2 MutableDateTime dt = new MutableDateTime(date);
3 dt.minuteOfDay().roundFloor(); // rounds time to
```

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