

Java Stream – Get Object with Max Date From a List

📅 Last Updated: March 14, 2022 👤 By: Lokesh Gupta 📁 Java 8 🔗 Java Stream Basics

Learn to **get an object with the latest date (max date)** from a [Stream](#) of custom objects. We will use a custom [Comparator](#) for comparing the *Date* values stored in the custom objects.

This example uses `Employee` class. We will create a program to get the youngest employee in a list of employees.

1. Custom Comparator for Comparing Objects by Date

The `LocalDate()` implements the [Comparable](#) interface so it automatically supports the correct comparison logic for comparing the two `LocalDate` objects. We do not need to write our own comparison logic for this date comparison.

We need to write a custom `Comparator` that can compare the custom objects and compare their `LocalDate` value.

The given `Comparator` compares two given `Employee` objects by their age i.e. Date of birth.

Custom Object Comparator

```
Comparator<Employee> employeeAgeComparator = Comparator  
    .comparing(Employee::getDateOfBirth);
```

Use `Comparator.reversed()` method, we need to find the Min Date from the Stream.

2. Getting Object with Max date using `Stream.max()`

Now we know what to compare, let us create a program to create a stream of `Employee` Objects and then pass the custom `Comparator` to the `Stream.max()` method.

Find Youngest Employee from a List

```
import java.time.LocalDate;
import java.util.ArrayList;
import java.util.Comparator;
import java.util.List;

public class MaxDateExample
{
    public static void main(final String[] args)
    {
        Comparator<Employee> employeeAgeComparator = Comparator
            .comparing(Employee::getDateOfBirth);

        Employee youngestEmployee = getEmployeeList().stream()
            .max(employeeAgeComparator)
            .get();

        System.out.println(youngestEmployee); //Prints Employee 'D'
    }

    private static List<Employee> getEmployeeList()
    {
        List<Employee> empList = new ArrayList<>();
        empList.add(new Employee(1, "A", LocalDate.of(1991, 1, 1), 30));
        empList.add(new Employee(2, "B", LocalDate.of(1976, 7, 9), 30));
        empList.add(new Employee(3, "C", LocalDate.of(1992, 8, 1), 50));
        empList.add(new Employee(4, "D", LocalDate.of(2001, 3, 11), 50));
    }
}
```

```
        return empList;  
    }  
}
```

Program Output:

```
Employee [id=4, name=D, dateOfBirth=2001-03-11, salary=50000.0]
```

In this way, we can get a custom object from a **List** of objects while comparing the date values from one of its fields.

Happy Learning !!

[Sourcecode on Github](#)

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Recommended Reading:

1. [Python max\(\) and min\(\) – finding max and min in list or array](#)
2. [Finding Max and Min from List using Streams](#)
3. [Java Stream max\(\)](#)

4. [Collecting Stream Items into List in Java](#)
5. [Java Stream reuse – traverse stream multiple times?](#)
6. [Java Regex to check Min/Max Length of Input Text](#)
7. [Finding Max and Min in Arrays](#)
8. [Hibernate count, min, max, sum, avg Functions](#)
9. [Object level lock vs Class level lock in Java](#)
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