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Solving Real Time Queries Using Java 8 Features -Employee Management System

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Let's try to solve some of the real time queries faced in the Employee Management System using Java 8 features.

We will be using following *Employee* class and *employeeList* as example while solving the queries.

1) Employee Class:

```
1 class Employee
      int id;
      String name;
      String gender;
      String department;
       int yearOfJoining;
       double salary;
       public Employee(int id, String name, int age, String gender, String department, int yearOfJoining, do
          this.id = id;
           this.name = name;
          this.age = age;
          this.gender = gender;
          this.department = department;
          this.yearOfJoining = yearOfJoining;
          this.salary = salary;
          return id;
        public String getName()
          return name;
        public int getAge()
          return age;
          return gender;
       public String getDepartment()
          return department;
       public int getYearOfJoining()
          return yearOfJoining;
       public double getSalary()
          return salary;
       @Override
       public String toString()
          return "Id : "+id
                  +", Name : "+name
                  +", Gender : "+gender
                  +", Department : "+department
                  +", Year Of Joining : "+yearOfJoining
                  +", Salary : "+salary;
```

2) List Of Employees: employeeList

```
1 List<Employee> employeeList = new ArrayList<Employee>();
    employeeList.add(new Employee(111, "Jiya Brein", 32, "Female", "HR", 2011, 25000.0));
    employeeList.add(new Employee(122, "Paul Niksui", 25, "Male", "Sales And Marketing", 2015, 13500.0));
    employeeList.add(new Employee(133, "Martin Theron", 29, "Male", "Infrastructure", 2012, 18000.0));
   employeeList.add(new Employee(144, "Murali Gowda", 28, "Male", "Product Development", 2014, 32500.0));
    employeeList.add(new Employee(155, "Nima Roy", 27, "Female", "HR", 2013, 22700.0));
   employeeList.add(new Employee(166, "Iqbal Hussain", 43, "Male", "Security And Transport", 2016, 10500.0))
   employeeList.add(new Employee(177, "Manu Sharma", 35, "Male", "Account And Finance", 2010, 27000.0));
   employeeList.add(new Employee(188, "Wang Liu", 31, "Male", "Product Development", 2015, 34500.0));
   employeeList.add(new Employee(199, "Amelia Zoe", 24, "Female", "Sales And Marketing", 2016, 11500.0));
   employeeList.add(new Employee(200, "Jaden Dough", 38, "Male", "Security And Transport", 2015, 11000.5));
   employeeList.add(new Employee(211, "Jasna Kaur", 27, "Female", "Infrastructure", 2014, 15700.0));
employeeList.add(new Employee(222, "Nitin Joshi", 25, "Male", "Product Development", 2016, 28200.0));
employeeList.add(new Employee(233, "Jyothi Reddy", 27, "Female", "Account And Finance", 2013, 21300.0));
employeeList.add(new Employee(244, "Nicolus Den", 24, "Male", "Sales And Marketing", 2017, 10700.5));
employeeList.add(new Employee(255, "Ali Baig", 23, "Male", "Infrastructure", 2018, 12700.0));
employeeList.add(new Employee(266, "Sanvi Pandey", 26, "Female", "Product Development", 2015, 28900.0));
employeeList.add(new Employee(277, "Anuj Chettiar", 31, "Male", "Product Development", 2012, 35700.0));
```

Also Read : Java 8 Lambda Expressions (https://javaconceptoftheday.com/java-8-lambda-expressions/)

3) Real Time Queries On *employeeList*

```
Print the name of all departments in the organization?
What is the average age of male and female employees?
Get the details of highest paid employee in the organization?
Get the names of all employees who have joined after 2015?
Count the number of employees in each department?
What is the average salary of each department?
> Get the details of youngest male employee in the product development
   department?
Who has the most working experience in the organization?
How many male and female employees are there in the sales and marketing
   team?
What is the average salary of male and female employees?
List down the names of all employees in each department?
What is the average salary and total salary of the whole organization?
Separate the employees who are younger or equal to 25 years from those
   employees who are older than 25 years?
Who is the oldest employee in the organization? What is his age and which
```

How many male and female employees are there in the organization?

Query 3.1: How many male and female employees are there in the organization?

department he belongs to?

For queries such as above where you need to group the input elements, use the Collectors.groupingBy() method. In this query, we use Collectors.groupingBy() method which takes two arguments. We pass Employee::getGender as first argument which groups the input elements based on gender and Collectors.counting() as second argument which counts the number of entries in each group.

Map<String, Long> noOfMaleAndFemaleEmployees=
employeeList.stream().collect(Collectors.groupingBy(Employee::getGender, Collectors.counting())); 4 System.out.println(noOfMaleAndFemaleEmployees);

{Male=11, Female=6}

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Query 3.2 : Print the name of all departments in the organization? Use *distinct()* method after calling *map(Employee::getDepartment)* on the stream. It will return unique departments. 1 employeeList.stream() .map(Employee::getDepartment) .distinct() .forEach(System.out::println); Sales And Marketing Infrastructure Product Development Security And Transport Account And Finance Query 3.3: What is the average age of male and female employees? Use same method as query 3.1 but pass Collectors.averagingInt(Employee::getAge) as the second argument to Collectors.groupingBy(). . | Map<String, Double> avgAgeOfMaleAndFemaleEmployees= employeeList.stream().collect(Collectors.groupingBy(Employee::getGender, Collectors.averagingInt(Employee: 4 System.out.println(avgAgeOfMaleAndFemaleEmployees); {Male=30.181818181818183, Female=27.166666666666668} Also Read : Java 8 Collectors (https://javaconceptoftheday.com/java-8-collectors-tutorial/) Query 3.4 : Get the details of highest paid employee in the organization? Use Collectors.maxBy() method which returns maximum element wrapped in an Optional object based on supplied Comparator. Optional<Employee> highestPaidEmployeeWrapper= employeeList.stream().collect(Collectors.maxBy(Comparator.comparingDouble(Employee::getSalary))); Employee highestPaidEmployee = highestPaidEmployeeWrapper.get(); System.out.println("Details Of Highest Paid Employee : "); System.out.println("=========="); 10 System.out.println("ID : "+highestPaidEmployee.getId()); System.out.println("Name : "+highestPaidEmployee.getName()); System.out.println("Age : "+highestPaidEmployee.getAge()); System.out.println("Gender : "+highestPaidEmployee.getGender()); System.out.println("Department : "+highestPaidEmployee.getDepartment()); 20 System.out.println("Year Of Joining: "+highestPaidEmployee.getYearOfJoining()); 22 System.out.println("Salary : "+highestPaidEmployee.getSalary()); Details Of Highest Paid Employee: _____ ID: 277 Name : Anuj Chettiar Age : 31 Gender : Male Department : Product Development Year Of Joining: 2012 Salary : 35700.0 Query 3.5 : Get the names of all employees who have joined after 2015? For such queries which require filtering of input elements, use Stream.filter() method which filters input elements according to supplied Predicate. 1 employeeList.stream() .filter(e -> e.getYearOfJoining() > 2015) .map(Employee::getName) .forEach(System.out::println); Output : Iqbal Hussain Amelia Zoe Nitin Joshi Nicolus Den Ali Baig Query 3.6 : Count the number of employees in each department? This query is same as query 3.1 but here we are grouping the elements by *department*. 1 Map<String, Long> employeeCountByDepartment= employeeList.stream().collect(Collectors.groupingBy(Employee::getDepartment, Collectors.counting()));

Set<Entry<String, Long>> entrySet = employeeCountByDepartment.entrySet();

Also Read : Java 8 Streams (https://javaconceptoftheday.com/java-8-streams-beginners-guide/)

Set<Entry<String, Double>> entrySet = avgSalaryOfDepartments.entrySet();

Query 3.8 : Get the details of youngest male employee in the product development department?

For this query, use Stream.filter() method to filter male employees in product development department and to find youngest among them,

System.out.println(entry.getKey()+" : "+entry.getValue());

Use the same method as in the above query 3.6, but here pass Collectors.averagingDouble(Employee::getSalary) as second argument to

employeeList.stream().collect(Collectors.groupingBy(Employee::getDepartment, Collectors.averagingDouble(Em

System.out.println(entry.getKey()+" : "+entry.getValue());

for (Entry<String, Long> entry : entrySet)

Query 3.7 : What is the average salary of each department?

1 Map<String, Double> avgSalaryOfDepartments=

for (Entry<String, Double> entry : entrySet)

Output :

HR:2

Output :

HR: 23850.0

Product Development : 5

Security And Transport : 2 Sales And Marketing : 3

Account And Finance: 2

Collectors.groupingBy() method.

Product Development : 31960.0 Security And Transport : 10750.25

Account And Finance: 24150.0

use Stream.min() method.

Sales And Marketing: 11900.166666666666

Infrastructure : 15466.66666666666

Infrastructure: 3

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```
Optional<Employee> youngestMaleEmployeeInProductDevelopmentWrapper=
      employeeList.stream()
                   .filter(e -> e.getGender()=="Male" && e.getDepartment()=="Product Development")
                    .min(Comparator.comparingInt(Employee::getAge));
      Employee youngestMaleEmployeeInProductDevelopment = youngestMaleEmployeeInProductDevelopmentWrapper.get()
      System.out.println("Details Of Youngest Male Employee In Product Development");
   10 System.out.println("-----
      System.out.println("ID : "+youngestMaleEmployeeInProductDevelopment.getId());
   14 System.out.println("Name: "+youngestMaleEmployeeInProductDevelopment.getName());
   System.out.println("Age : "+youngestMaleEmployeeInProductDevelopment.getAge());
   System.out.println("Year Of Joinging: "+youngestMaleEmployeeInProductDevelopment.getYearOfJoining());
   20 System.out.println("Salary: "+youngestMaleEmployeeInProductDevelopment.getSalary());
 Details Of Youngest Male Employee In Product Development
 ID: 222
 Name : Nitin Joshi
 Age : 25
Year Of Joinging: 2016
 Salary : 28200.0
    Query 3.9: Who has the most working experience in the organization?
 For this query, sort employeeList by yearOfJoining in natural order and first employee will have most working experience in the
 organization. To solve this query, we will be using sorted() and findFirst() methods of Stream.
    1    Optional<Employee> seniorMostEmployeeWrapper=
      employeeList.stream().sorted(Comparator.comparingInt(Employee::getYearOfJoining)).findFirst();
      Employee seniorMostEmployee = seniorMostEmployeeWrapper.get();
      System.out.println("Senior Most Employee Details :");
      System.out.println("-----
   System.out.println("ID : "+seniorMostEmployee.getId());
      System.out.println("Name : "+seniorMostEmployee.getName());
   14 System.out.println("Age : "+seniorMostEmployee.getAge());
   16 System.out.println("Gender : "+seniorMostEmployee.getGender());
   18 System.out.println("Age : "+seniorMostEmployee.getDepartment());
   20 System.out.println("Year Of Joinging: "+seniorMostEmployee.getYearOfJoining());
   22 System.out.println("Salary : "+seniorMostEmployee.getSalary());
 Output:
 Senior Most Employee Details :
 ID : 177
 Name : Manu Sharma
 Age : 35
 Gender : Male
Age : Account And Finance
 Year Of Joinging : 2010
 Salary : 27000.0
    Also Read : Java 8 Optional Class (https://javaconceptoftheday.com/java-8-optional-class/)
    Query 3.10: How many male and female employees are there in the sales and marketing team?
 This query is same as query 3.1, but here use filter() method to filter sales and marketing employees.
   1 Map<String, Long> countMaleFemaleEmployeesInSalesMarketing=
    employeeList.stream()
                  .filter(e -> e.getDepartment()=="Sales And Marketing")
                  .collect(Collectors.groupingBy(Employee::getGender, Collectors.counting()));
   6 System.out.println(countMaleFemaleEmployeesInSalesMarketing);
 {Female=1, Male=2}
    Query 3.11: What is the average salary of male and female employees?
 This query is same as query 3.3 where you have found average age of male and female employees. Here, we will be finding average
 salary of male and female employees.
   1 | Map<String, Double> avgSalaryOfMaleAndFemaleEmployees=
    employeeList.stream().collect(Collectors.groupingBy(Employee::getGender, Collectors.averagingDouble(Employ
   4 System.out.println(avgSalaryOfMaleAndFemaleEmployees);
    Query 3.12: List down the names of all employees in each department?
```

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{Male=21300.090909090908, Female=20850.0}

For this query, we will be using Collectors.groupingBy() method by passing Employee::getDepartment as an argument.

```
1 | Map<String, List<Employee>> employeeListByDepartment=
    employeeList.stream().collect(Collectors.groupingBy(Employee::getDepartment));
    Set<Entry<String, List<Employee>>> entrySet = employeeListByDepartment.entrySet();
    for (Entry<String, List<Employee>> entry : entrySet)
       System.out.println("----");
       System.out.println("Employees In "+entry.getKey() + " : ");
       System.out.println("-----");
       List<Employee> list = entry.getValue();
       for (Employee e : list)
17
18
19
20 }
           System.out.println(e.getName());
```

```
_____
Employees In Product Development :
Murali Gowda
Wang Liu
Nitin Joshi
Sanvi Pandey
Anuj Chettiar
Employees In Security And Transport:
Iqbal Hussain
Jaden Dough
Employees In Sales And Marketing
Paul Niksui
Amelia Zoe
Nicolus Den
Employees In Infrastructure :
Martin Theron
Jasna Kaur
Ali Baig
Employees In HR:
```

```
Jiya Brein
 Nima Roy
 Employees In Account And Finance:
Manu Sharma
 Jyothi Reddy
     Query 3.13: What is the average salary and total salary of the whole organization?
For this query, we use Collectors.summarizingDouble() on Employee::getSalary which will return statistics of the employee salary like
 max, min, average and total.
   DoubleSummaryStatistics employeeSalaryStatistics=
     employeeList.stream().collect(Collectors.summarizingDouble(Employee::getSalary));
    System.out.println("Average Salary = "+employeeSalaryStatistics.getAverage());
   6 System.out.println("Total Salary = "+employeeSalaryStatistics.getSum());
 Average Salary = 21141.235294117647
Total Salary = 359401.0
     Query 3.14 : Separate the employees who are younger or equal to 25 years from those employees who are older than
 For this query, we will be using Collectors.partitioningBy() method which separates input elements based on supplied Predicate.
    1 Map<Boolean, List<Employee>> partitionEmployeesByAge=
      employeeList.stream().collect(Collectors.partitioningBy(e -> e.getAge() > 25));
       Set<Entry<Boolean, List<Employee>>> entrySet = partitionEmployeesByAge.entrySet();
      for (Entry<Boolean, List<Employee>> entry : entrySet)
           System.out.println("----");
           if (entry.getKey())
               System.out.println("Employees older than 25 years :");
               System.out.println("Employees younger than or equal to 25 years :");
           System.out.println("----");
           List<Employee> list = entry.getValue();
           for (Employee e : list)
               System.out.println(e.getName());
 Employees younger than or equal to 25 years :
 Paul Niksui
 Amelia Zoe
 Nitin Joshi
 Nicolus Den
 Ali Baig
 Employees older than 25 years:
 _____
 Jiya Brein
 Martin Theron
 Murali Gowda
 Nima Roy
 Iqbal Hussain
 Manu Sharma
 Wang Liu
 Jaden Dough
 Jasna Kaur
 Jyothi Reddy
 Sanvi Pandey
 Anuj Chettiar
     Query 3.15: Who is the oldest employee in the organization? What is his age and which department he belongs to?
    1 Optional<Employee> oldestEmployeeWrapper = employeeList.stream().max(Comparator.comparingInt(Employee::get
      Employee oldestEmployee = oldestEmployeeWrapper.get();
      System.out.println("Name : "+oldestEmployee.getName());
      System.out.println("Age : "+oldestEmployee.getAge());
   9 System.out.println("Department : "+oldestEmployee.getDepartment());
 Output:
 Name : Iqbal Hussain
 Age : 43
 Department : Security And Transport
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28 Comments SEPTEMBER 6, 2019 / 4:35 PM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-FEATURES-Pankaj REPLY RANAGEMENT-SYSTEM/#COMMENT-4595) Please give same king of real time example with different use cases JUNE 14, 2020 / 2:00 AM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-FEATURES-Abhishek EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-4843) Kumar REPLY Query 3.8 line no 3, && please change && with && AUGUST 29, 2020 / 6:43 PM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-FEATURES-EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-4890)

Karthik if i want to find second largest salary in the list what i have to do? SEPTEMBER 18, 2020 / 7:59 PM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-Pankaj 8-FEATURES-EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-4900) Lilhore REPLY Optional maxSal= employeeList.stream().max(Comparator.comparingDouble(Employee::getSalary)); Optional sec=employeeList.stream().filter(s -> s.getSalary() != maxSal.get().getSalary()).max(Comparator.comparing(Employee::getSalary)); System.out.println("sec sal:"+sec.get()); SEPTEMBER 24, 2022 / 11:41 PM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-FEATURES-EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-5490)

venkat System.out.println("==Get the details of highest paid employee in the organization?=="); System.out.println(employeeList.stream(). sorted(Comparator.comparing(Employee::getSalary).reversed()).findFirst()); System.out.println("==Get the details of highest paid employee in the organization?==method2"); System.out.println(employeeList.stream().max(Comparator.comparing(Employee::getSalary))); System.out.println("==Get the details of highest paid employee in the organization?==method3"); System.out.println(Arrays.stream(employeeList.stream(). sorted((o1, o2) -> (int)(o2.getSalary()- o1.getSalary())).limit(1).toArray()).findFirst()); System.out.println("==Get the details of highest paid employee in the organization?==method4"); System.out.println(Arrays.stream(employeeList.stream(). sorted(Comparator.comparing(Employee::getSalary)).skip(employeeList.size()-1).toArray()).findFir OCTOBER 26, 2021 / 10:37 PM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-FEATURES-EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-5245)

Arvind Optionalemp=emptiest.stream().sorted(comparingDouble(Employee:: getSalary).reverse()).skip(1).findFirst(); JANUARY 9, 2021 / 6:51 PM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-FEATURES-EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-4993)
harish i need to find 1st three employee details based on highest salary? MAY 26, 2021 / 3:13 PM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-FEATURES-EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-5122) REPLY employee List.stream (). sorted (comparing Double (Employee::get Salary). reversed ()). limit (3). for Each (System. out the comparing Double (Employee::get Salary). reversed ()). limit (3). for Each (System. out the comparing Double (Employee::get Salary). reversed ()). limit (3). for Each (System. out the comparing Double (Employee::get Salary). reversed ()). limit (3). for Each (System. out the comparing Double (Employee::get Salary). reversed ()). limit (3). for Each (System. out the comparing Double (Employee::get Salary). reversed ()). limit (3). for Each (System. out the comparing Double (Employee::get Salary). reversed ()). limit (3). for Each (System. out the comparing Double (Employee::get Salary). reversed ()). limit (3). for Each (System. out the comparing Double (Employee::get Salary). reversed ()). limit (3). for Each (System. out the comparing Double (Employee::get Salary). reversed ()). limit (3). for Each (System. out the comparing Double (Employee::get Salary). reversed ()). limit (3). for Each (System. out the comparing Double (Employee::get Salary). reversed ()). limit (3). for Each (System. out the comparing Double (Employee::get Salary). Reversed ()). limit (3). for Each (System. out the comparing Double (Employee::get Salary). Reversed ()). limit (3). for Each (System. out the comparing Double ()). It is the comparing Double (). It is the comparing::println); JANUARY 10, 2021 / 10:35 AM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-FEATURES-EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-4995)
harish if i have an employee details is in text file how can we apply these examples to text file, please give me these examples by using text files. FEBRUARY 11, 2021 / 8:42 PM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-FEATURES-Satish EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-5036) Kumar REPLY Very useful, I was looking for this for a long time. MAY 24, 2021 / 11:29 AM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-FEATURES-Shivraj EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-5120) Singh REPLY Thanks Sir Very help full. JUNE 2, 2021 / 12:52 AM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-FEATURES-Pooja EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-5128) Almiya REPLY

JUNE 24, 2021 / 1:41 PM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-FEATURES-EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-5144)

neha

REPLY

Very useful

Create simple and small Employee class and write codes to filter all Female Employees working in CSE department from list of Employees by using stream. AUGUST 12, 2021 / 7:18 PM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-FEATURES-Sameer EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-5181) Very Useful. Thanks Alot AUGUST 29, 2021 / 12:39 PM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-Rupendra FEATURES-EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-5187) As per my understanding for string comparison we should use .equals method not ==. SEPTEMBER 1, 2021 / 10:37 PM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-AJAY FEATURES-EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-5190) LAMKHADE REPLY No better example can be imagined than this one for such a topic, very well constructed. thanks a lot for making it simpler. OCTOBER 2, 2021 / 9:26 PM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-FEATURES-Amit EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-5210) Kumar REPLY Great Explain No Second Thought OCTOBER 11, 2021 / 11:45 AM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-Gajendra FEATURES-EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-5227) Singh Thank you so much very helpful. OCTOBER 12, 2021 / 12:18 AM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-KONDA FEATURES-EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-5232) RAGHU REPLY How to find highest salary in each department OCTOBER 27, 2021 / 8:10 AM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-Soumya JAVA-8-FEATURES-EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-5246) Mukherjee REPLY Map<Integer, Optional> empWithMaxSalaryDeptWise = employeeList.stream().collect(Collectors.groupingBy(Employee::getDeptId, Collectors.reducing(BinaryOperator.maxBy(Comparator.comparing(Employee::getSalary))))); empWithMaxSalaryDeptWise.entrySet().forEach(entry-> System.out.println(entry.getKey()+"———"+entry.getValue().get().getSalary())); NOVEMBER 4, 2021 / 3:41 PM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-FEATURES-Vivek EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-5261) Manhar REPLY How to write below code 1. List of Student has id, subject and marks need to fatch highest marks in each subject; Map of College Name and StudentName List filter out all college names starting with Letter "S" and output list of students who belong to that college. NOVEMBER 17, 2021 / 11:27 AM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-Avinash FEATURES-EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-5271) Jayakar REPLY Exceptional Content .. Thanks a lot !! JANUARY 27, 2022 / 2:27 PM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-FEATURESshankarEMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-5317) Thanks a lot. very very useful. APRIL 5, 2022 / 1:48 AM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-FEATURES-EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-5384)
Victor What if you want to return yout key to be name if the departament and your value to be the salary foe the departament? I când get they key like this but I don't know how to continue to get the salary per position Map getDeoNameAndSalary(List employeeList){ return employeeLis.stream().map(Employee ::getDepartment).collect(Collectors.groupingby(Function.identity(),// I know here I should take the value but I cannot figure it out :((); MAY 5, 2022 / 6:10 AM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-FEATURES-EMPLOYEE-Bi MANAGEMENT-SYSTEM/#COMMENT-5425) raman Reply how can we format above averages output into 2 decimal places? JUNE 20, 2022 / 2:54 AM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-FEATURESmanideep EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-5443) Very useful JUNE 27, 2022 / 8:33 PM (HTTPS://JAVACONCEPTOFTHEDAY.COM/SOLVING-REAL-TIME-QUERIES-USING-JAVA-8-FEATURES-EMPLOYEE-MANAGEMENT-SYSTEM/#COMMENT-5448)
SS
REPLY DoubleSummaryStatistics is it created locally??

List down the names of all en	nployees in each department?	
	List.stream().collect(Collectors.grouping e::getName,Collectors.toList())	By(Employee::getDepartment,
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