

### Problem Statement:

Configure Chrome browser and navigate to <https://datatables.net/> web site.

Click on the Name (Eg. Airi Satou) which expands and gives you the salary details from the table.

Similarly get all the salary details from the table and calculate the total salary of all the employees and provide the result.

### Source code:

```
package com.ibm.seleniumconcepts;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.ie.InternetExplorerDriver;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.Select;
import org.openqa.selenium.support.ui.WebDriverWait;
import java.util.concurrent.TimeUnit;
import java.util.List;

public class TotalSalary {

    // Declaration of main method
    public static void main(String[] args) {

        //Setting path for Chrome Driver
        System.setProperty("webdriver.chrome.driver",
            "./drivers/chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
        WebDriverWait wait = new WebDriverWait(driver, 60);
        driver.manage().window().maximize();

        // Launch the web site for datatables
        driver.get("https://datatables.net");

        // Finding the total number of rows in the table.
        List rows = (List)
            driver.findElements(By.xpath("//table[@id='example']/tbody/tr"));
        int rowTotal = rows.size();
        System.out.println("Total no.of rows in the table are " + rowTotal);

        // Finding the total number of columns in the table
        List columns = (List) driver
            .findElements(By.xpath("//table[@id='example']/tbody/tr[1]/td"));
        int colTotal = columns.size();
        System.out.println("Total Columns in table are " + colTotal);

        int totalsalary = 0;
```



Chrome is being controlled by automated test software.

## Add advanced interaction controls to your HTML tables *the free & easy way*

- 1 - Include these two files
  - CSS `//cdn.datatables.net/1.10.19/css/jquery.dataTables.min.css`
  - JS `//cdn.datatables.net/1.10.19/js/jquery.dataTables.min.js`
- 2 - Call this single function


```
1 $(document).ready( function () {  
2   $('#myTable').DataTable();  
3 } );
```
- 3 - You get a fully interactive table →  
[Full Getting Started Guide](#)

Name	Position	Office	Age	Start date
Airi Satou	Accountant	Tokyo	33	2008/11/28
Salary: \$162,700				
Angelica Ramos	Chief Executive Officer (CEO)	London	47	2009/10/09
Ashton Cox	Junior Technical Author	San Francisco	66	2009/01/12
Bradley Greer	Software Engineer	London	41	2012/10/13
Brenden Wagner	Software Engineer	San Francisco	28	2011/06/07
Brielle Williamson	Integration Specialist	New York	61	2012/12/02
Bruno Nash	Software Engineer	London	38	2011/05/03
Caesar Vance	Pre-Sales Support	New York	21	2011/12/12
Cara Stevens	Sales Assistant	New York	46	2011/12/06
Cedric Kelly	Senior Javascript Developer	Edinburgh	22	2012/03/29

Showing 1 to 10 of 57 entries

Chrome is being controlled by automated test software.

## Add advanced interaction controls to your HTML tables *the free & easy way*

- 1 - Include these two files
  - CSS `//cdn.datatables.net/1.10.19/css/jquery.dataTables.min.css`
  - JS `//cdn.datatables.net/1.10.19/js/jquery.dataTables.min.js`
- 2 - Call this single function


```
1 $(document).ready( function () {  
2   $('#myTable').DataTable();  
3 } );
```
- 3 - You get a fully interactive table →  
[Full Getting Started Guide](#)

Name	Position	Office	Age	Start date
Airi Satou	Accountant	Tokyo	33	2008/11/28
Angelica Ramos	Chief Executive Officer (CEO)	London	47	2009/10/09
Ashton Cox	Junior Technical Author	San Francisco	66	2009/01/12
Bradley Greer	Software Engineer	London	41	2012/10/13
Brenden Wagner	Software Engineer	San Francisco	28	2011/06/07
Brielle Williamson	Integration Specialist	New York	61	2012/12/02
Bruno Nash	Software Engineer	London	38	2011/05/03
Caesar Vance	Pre-Sales Support	New York	21	2011/12/12
Cara Stevens	Sales Assistant	New York	46	2011/12/06
Cedric Kelly	Senior Javascript Developer	Edinburgh	22	2012/03/29

Showing 1 to 10 of 57 entries

**Flow Information:**

Initially the relative path is set for Chrome driver using System.setProperty method. The Web driver object is created to instantiate Chrome Driver. The 'Get' method is used on web driver object to launch the site for 'https://datatables.net'. Application is launched with web site showing the table having multiple rows with the columns namely Name,Position,Office,Age,Start date.The locator xpath is used to locate the list of rows and stored them in List collection. Using size method the count for total number of rows is found. For loop is used by iterating all the rows and a click operation is performed on 'Name' element value of each row and then Salary value is displayed for selected employee or name. The salary value is captured by xpath and stored as string . As it is having the special characters "\$" and "," then replace method is used to replace these characters by empty value. After that salary value is converted to integer number and hence calculated the total salary of each employee in the for loop. Finally the total salary of first page of all the employees displayed on console.