Problem Statement:

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

Click o 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.openga.selenium.ie.InternetExplorerDriver;
import org.openga.selenium.support.ui.ExpectedConditions;
import org.openga.selenium.support.ui.Select;
import org.openga.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<WebElement> rows = (List<WebElement>)
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<WebElement> columns = (List<WebElement>) 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;
```

```
int j = 0;
      //Locating the salary element of each row and calculating the total salary
             for (int i = 1; i <= rowTotal; i++) {</pre>
                    j = i + 1;
                    // To locate and click on the name element value in each row
                   WebElement nameCell =
driver.findElement(By.xpath("//table[@id='example']/tbody/tr[" + i + "]/td[1]"));
                    nameCell.click();
                    // Locating salary element value
                   WebElement salElt = driver
      .findElement(By.xpath("(//table[@id='example']/tbody/tr[" + j +
"]/td[1]/descendant::span)[2]"));
                    // Replacing the special characters $ , with empty value in a
string
                    String salValue = salElt.getText().trim().replace("$",
"").replace(",", "");
                    // Calculating total salary
                    totalsalary = totalsalary + Integer.parseInt(salValue);
                    // To click on name element value again
                    nameCell.click();
             // Printing total salary on console
             System.out.println("Total Salary:" + totalsalary);
      }
}//End of program
```

Output:

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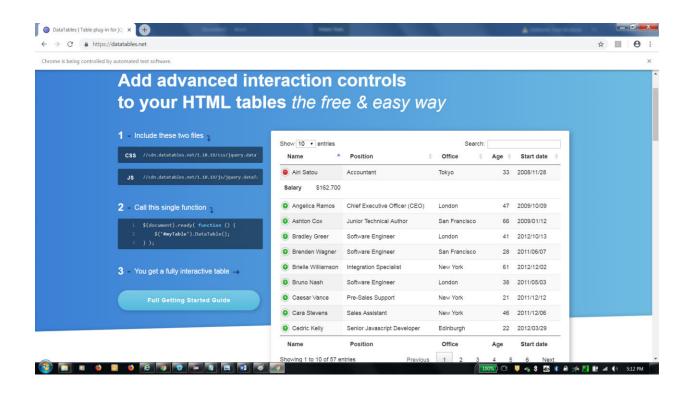
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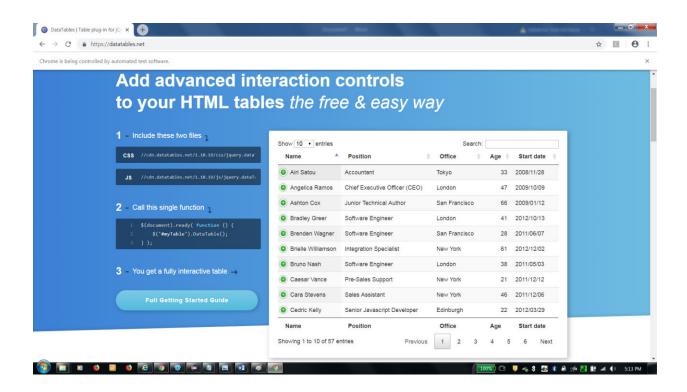
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Flow Information:

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.