

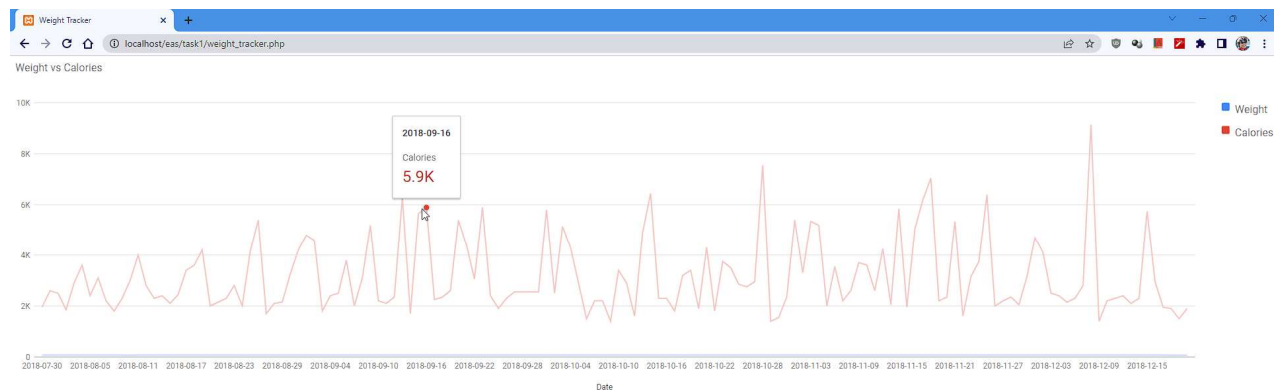
# Final Exam

## Web Programming (I)

### Friday, December 9, 2022

#### Task 1 (30)

The example project, `weight_tracker.php`, has been provided. To try the functionality, you must import the **`weight_tracker.sql`** first.



Your task is to make similar visualization using **`browser_statistics.sql`** data. Please do the following:

- Create a new database with the name '**`statistics_NRP`**'.
- Import the data '**`browser_statistics.sql`**'.
- Screenshot the table, while showing the database and the table structure like this example.

The screenshot shows a database management interface. On the left, a tree view lists several databases, including 'eas' and 'browser\_statistic'. The 'browser\_statistic' database is selected, and its table structure is displayed. The table has columns: 'date', 'chrome', 'ie', 'firefox', 'safari', 'opera', and 'android'. The data is shown in a table format with three rows of sample data.

Showing rows 0 - 24 (168 total, Query took 0.0006 seconds.)

```
SELECT * FROM `browser_statistic`
```

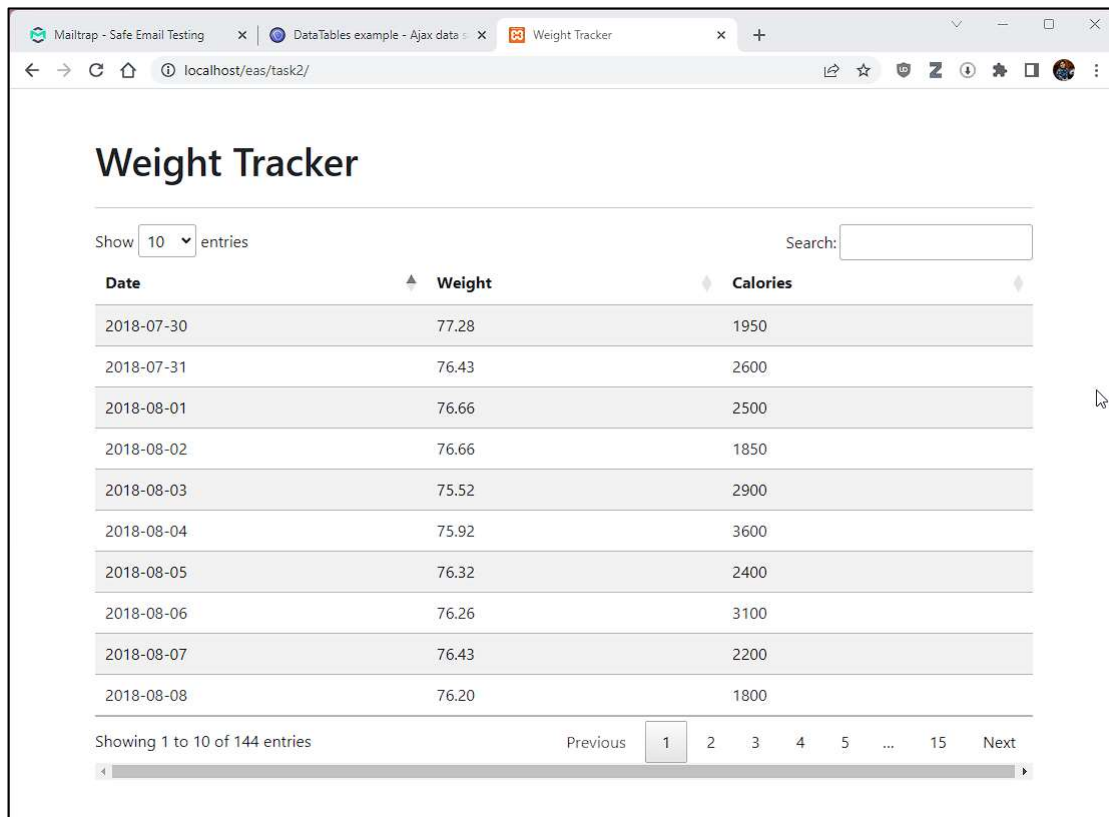
☐ Profiling [ [Edit inline](#) ] [ [Edit](#) ] [ [Explain SQL](#) ] [ [Create PHP code](#) ] [ [F](#) ]

1 > >> | ☐ Show all | Number of rows: 25

date	chrome	ie	firefox	safari	opera	android
2009-01-01	1.37	64.97	26.85	2.79	3.07	0.01
2009-02-01	1.50	63.98	27.66	2.83	3.09	0.01
2009-03-01	1.71	62.02	29.17	3.02	3.09	0.02

- Add functionality to your PHP page:
  - Put your name and NRP with the `<h1>` element before the `<div>` chart element.
  - Query data from the database.
  - Display the data in Line chart from the Google Chart library.
- Test your web page and screenshot the result.

## Task 2 (40)



Date	Weight	Calories
2018-07-30	77.28	1950
2018-07-31	76.43	2600
2018-08-01	76.66	2500
2018-08-02	76.66	1850
2018-08-03	75.52	2900
2018-08-04	75.92	3600
2018-08-05	76.32	2400
2018-08-06	76.26	3100
2018-08-07	76.43	2200
2018-08-08	76.20	1800

In this task, you must display the browser statistics data using the DataTable library. We provide an example of how to show weight tracker data. Your job is to:

- Create an **index.php** page to display the data.
- Put your name and NRP with the `<h1>` element before the table element.
- Create a **data.php** to handle the AJAX request. You need to update the query and how the script produces the data.
- Edit and complete the AJAX request.
- Test the functionality of your page and **screenshot the result:**
  - Changing the data displayed using page navigation (Prev, 1, 2, ..., Next).
  - Using search functionality
  - Change the entries shown into 25, 50, etc.

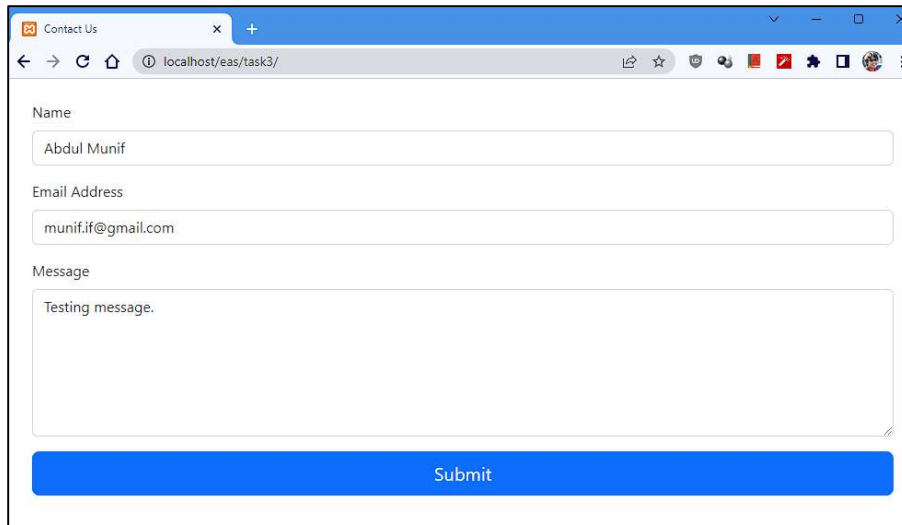
References:

1. [https://datatables.net/examples/non\\_jquery/ajax.html](https://datatables.net/examples/non_jquery/ajax.html)
2. <https://belajaraplikasi.com/membuat-datatables-server-side-processing-dengan-php-mysql/>

## Task 3 (30)

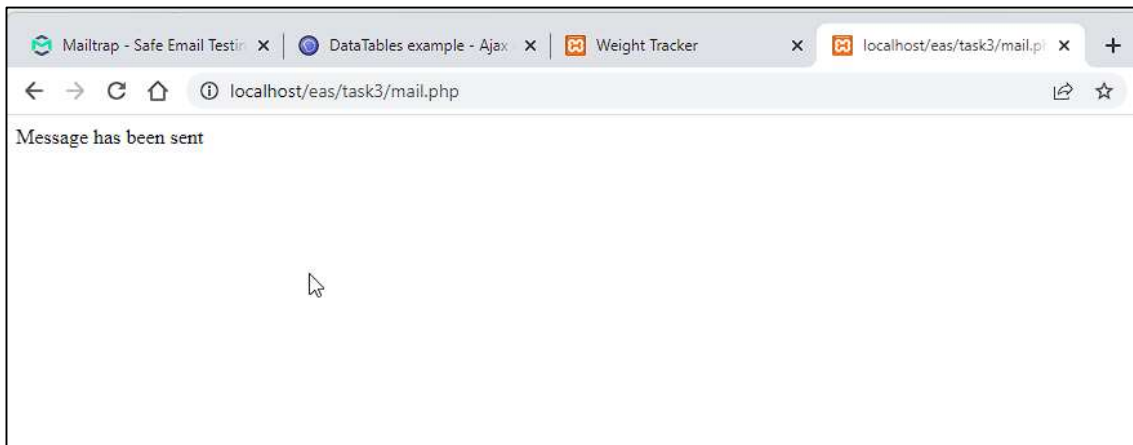
In this task, you have to create a function like this:

- The web displays the contact form
- After the user submits the form, your corresponding scripts should handle the request:
  - Saving to the database
  - Send the email to the email address that the user has submitted. For sending the email, we are using [the PHPMailer](#) library.

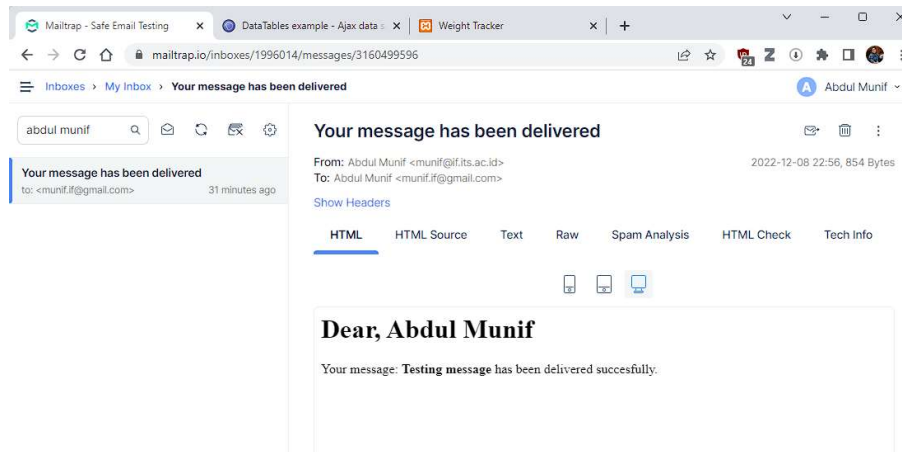


A screenshot of a web browser window titled "Contact Us". The address bar shows "localhost/eas/task3/". The form contains three input fields: "Name" with the value "Abdul Munif", "Email Address" with the value "munif.if@gmail.com", and "Message" with the value "Testing message.". Below the fields is a blue "Submit" button.

Sending message output



Then, I can check your email from my account.



Your task:

- Create a new table in your database named 'contact'
- Create a contact form page using Bootstrap CSS.
- Download the PHPMailer library into your project. You can also use **composer** to install this library.  
<https://github.com/PHPMailer/PHPMailer>
- Receive the form request and save it to the database.
- Send the confirmation email.
- Screenshot the result of filling out the contact form and the sending message result.
- Screenshot the table content after filling out the form several times, while showing the database and the table structure like the example.

