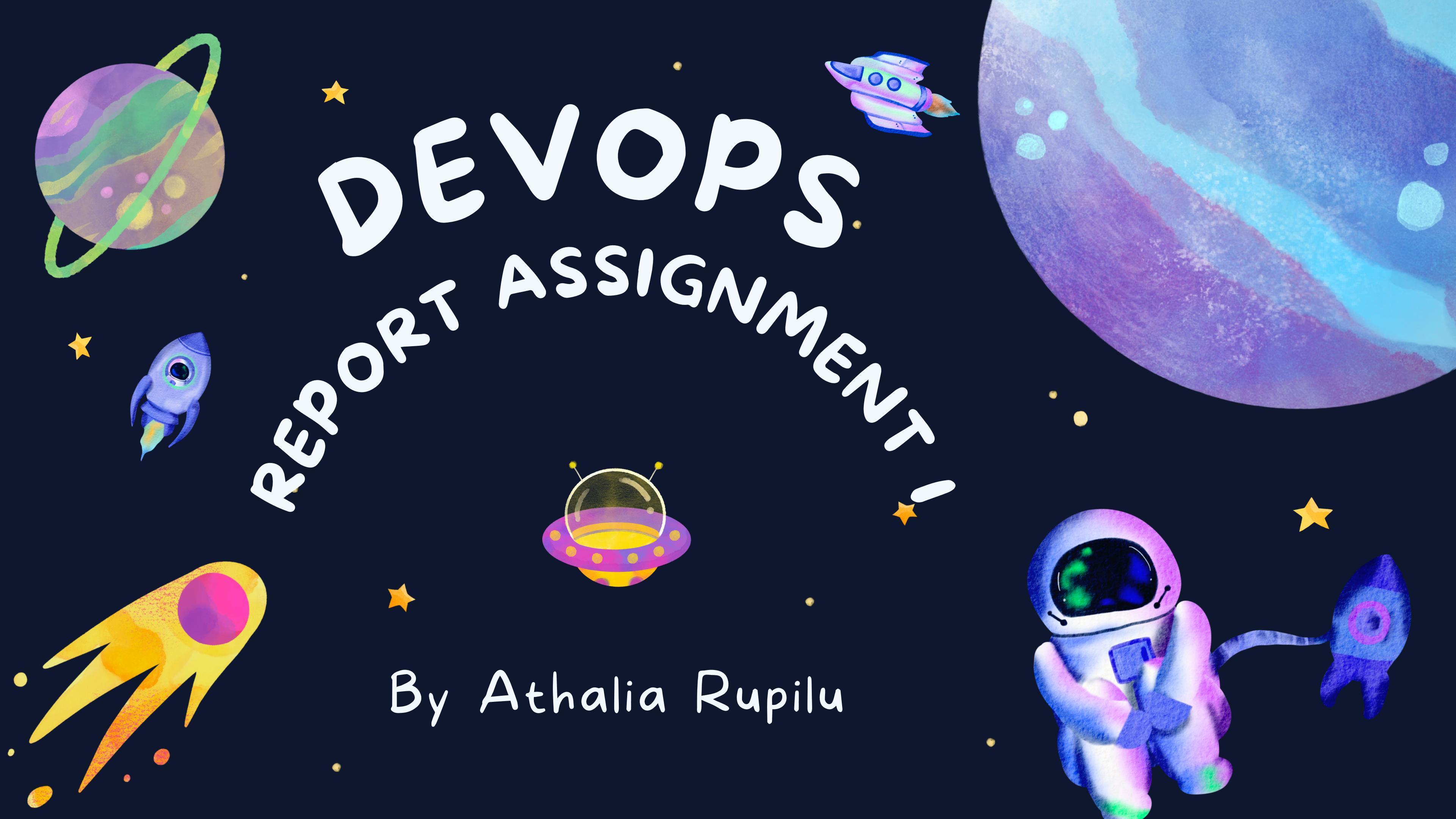


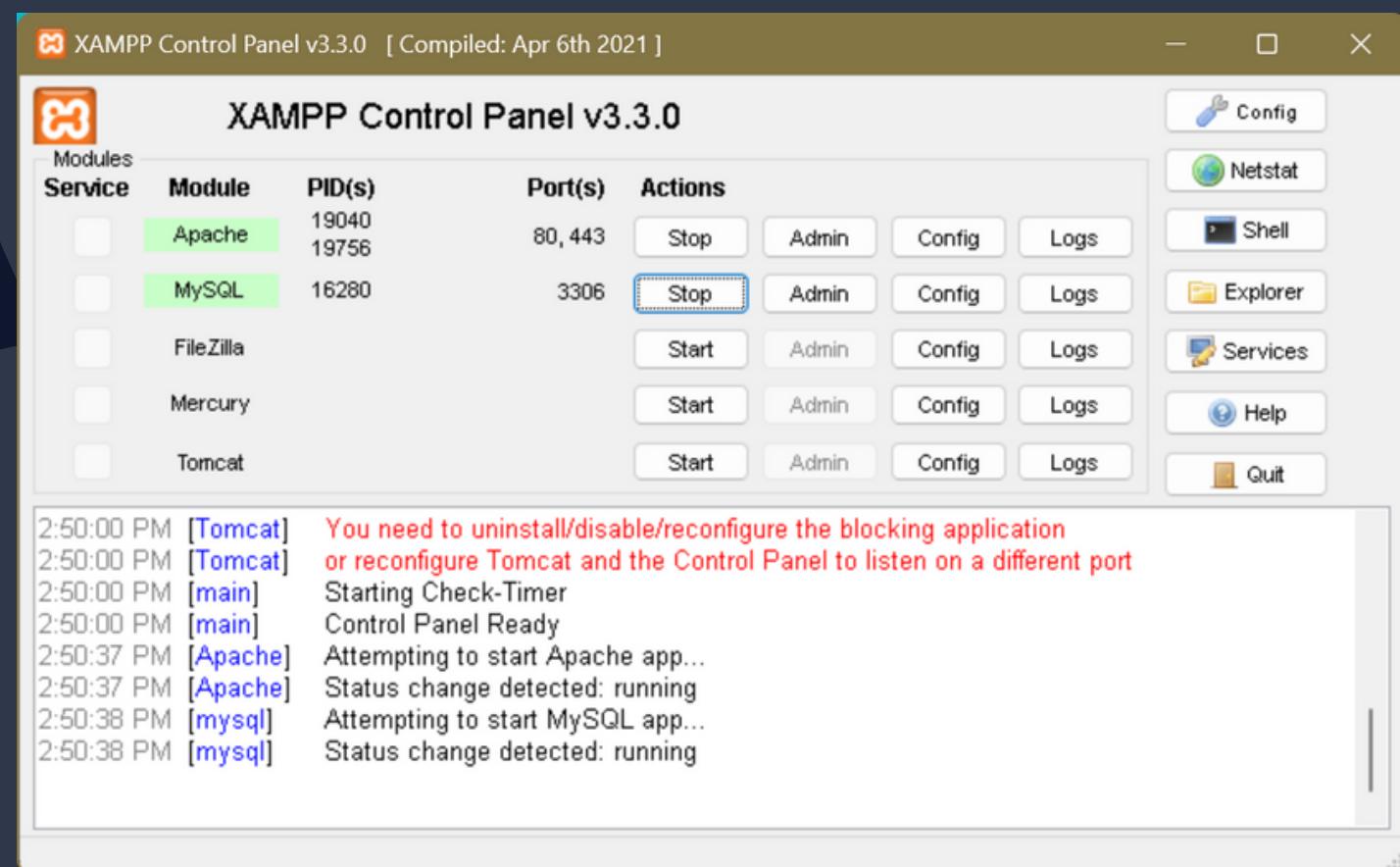
# DEVOPS REPORT ASSIGNMENT!

By Athalia Rupilu



## Start services & sign in di PHPMyAdmin

- Open Xampp and start apache & mysql, after that click admin on the mysql section
- log in using 'root' as the username and '12345' as the password



# Create a new database and insert tables

database name : db\_unklab

tables name :

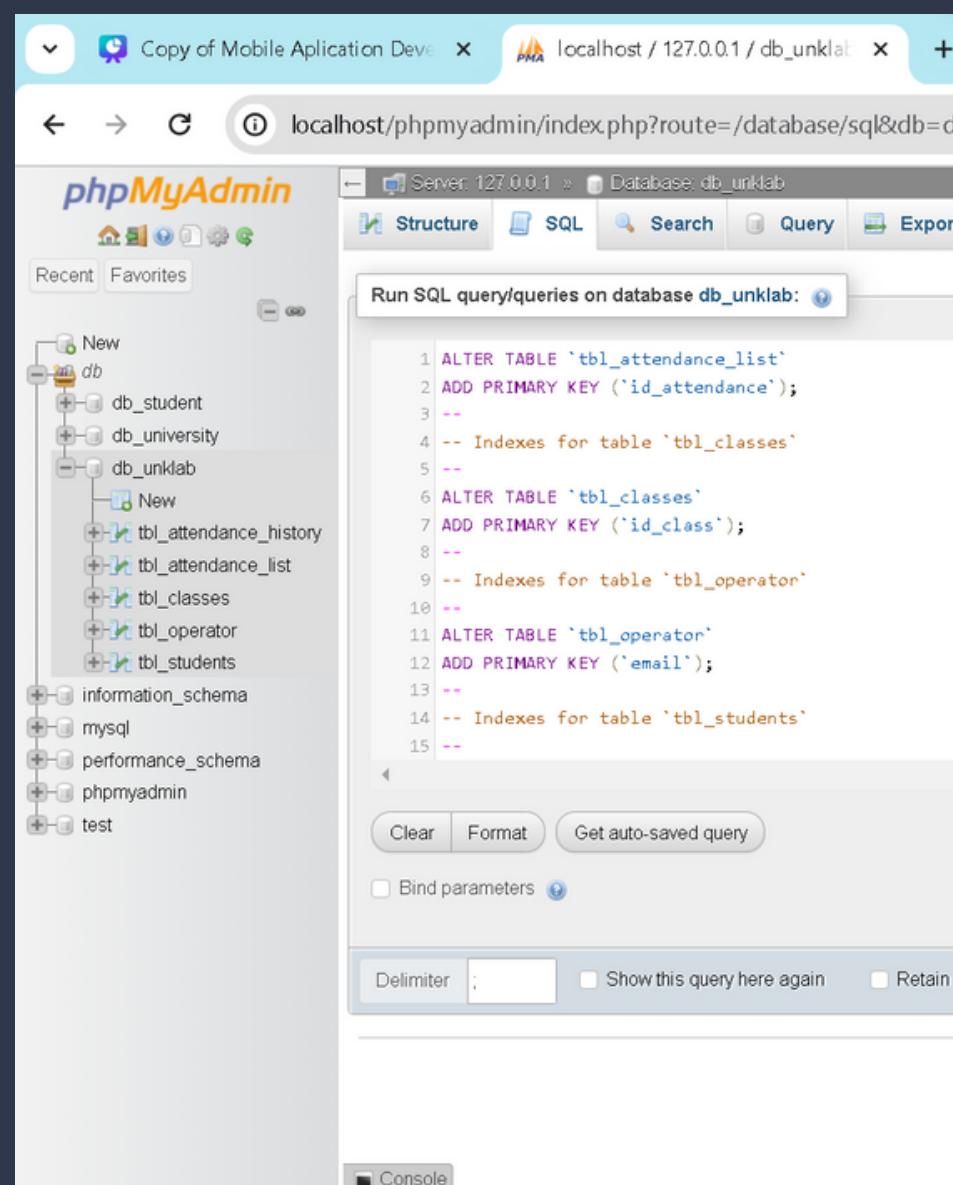
- `tbl_attendance_history`
- `tbl_attendance_list`
- `tbl_classes`
- `tbl_operator`
- `tbl_students`

The screenshot shows the phpMyAdmin interface for the 'db\_unklab' database. The 'tbl\_attendance\_history' table is selected. The table structure includes columns: id\_class, id\_attendance, email\_student, name\_subject, email\_lecturer, student\_lat, student\_long, distance, time\_take\_attendance, and status. The data shows multiple entries for different students attending classes at various locations and times.

id_class	id_attendance	email_student	name_subject	email_lecturer	student_lat	student_long	distance	time_take_attendance	status
CLASS643ac4d56e4a8	ATD745ac4d56e4b7	s354321@student.unklab.ac.id	Artificial Intelligence	semmy@unklab.ac.id	1,239484	124,348583	10	10:15:49	P
CLASS643ac4d56e4a8	ATD745ac4d56e4b7	s154321@student.unklab.ac.id	Artificial Intelligence	semmy@unklab.ac.id	1,239484	124,348583	16	10:00:49	P
CLASS643ac4d56e4a8	ATD745ac4d56e4b7	s254321@student.unklab.ac.id	Artificial Intelligence	semmy@unklab.ac.id	1,239484	124,348583	12	10:05:49	P
CLASS643ac4d56e4a8	ATD745ac4d56e4b7	s354321@student.unklab.ac.id	Artificial Intelligence	semmy@unklab.ac.id	1,239484	124,348583	20	10:08:49	P
CLASS643ac4d56e4a8	ATD745ac4d56e4b7	s454321@student.unklab.ac.id	Artificial Intelligence	semmy@unklab.ac.id	1,239484	124,348583	15	10:20:49	P
CLASS643ac4d56e4a8	ATD745ac4d56e4b7	s554321@student.unklab.ac.id	Artificial Intelligence	semmy@unklab.ac.id	1,239484	124,348583	6	10:30:49	P
Console	c4d56e4a8	ATD745ac4d56e4b7	s644321@student.unklab.ac.id	Artificial Intelligence	semmy@unklab.ac.id	1,239484	124,348583	7	10:45:49

# Adding Primary Key in Tables

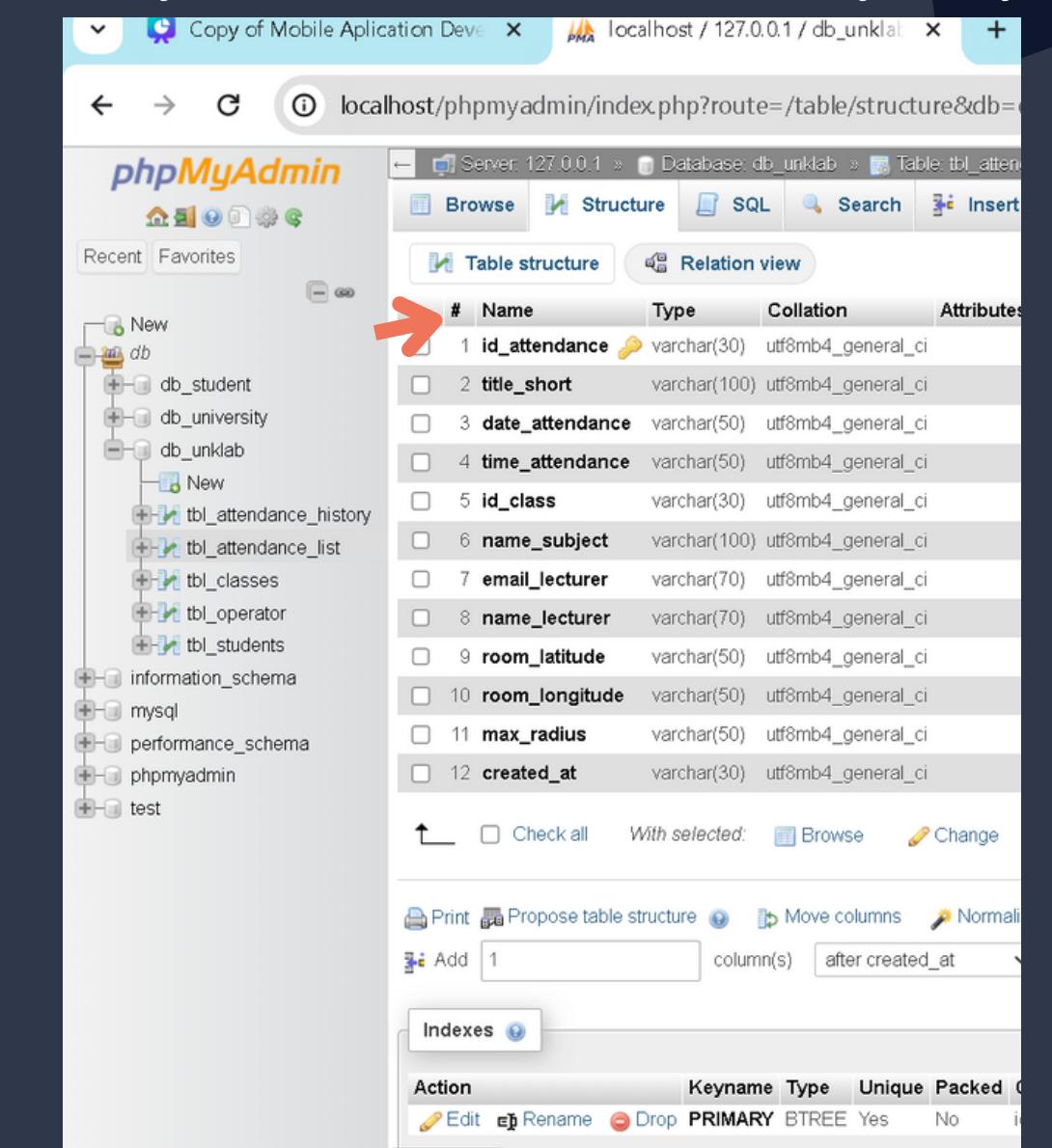
Don't forget to make sure that the primary key is already done by checking each tables that you've added primary key



The screenshot shows the phpMyAdmin interface for the database 'db\_unklab'. In the left sidebar, the 'Structure' tab is selected. In the main area, there is a 'Run SQL query/queries on database db\_unklab:' input field containing the following SQL code:

```
1 ALTER TABLE `tbl_attendance_list`  
2 ADD PRIMARY KEY ('id_attendance');  
3 --  
4 -- Indexes for table 'tbl_classes'  
5 --  
6 ALTER TABLE `tbl_classes`  
7 ADD PRIMARY KEY ('id_class');  
8 --  
9 -- Indexes for table 'tbl_operator'  
10 --  
11 ALTER TABLE `tbl_operator`  
12 ADD PRIMARY KEY ('email');  
13 --  
14 -- Indexes for table 'tbl_students'  
15 --
```

Below the code, there are buttons for 'Clear', 'Format', 'Get auto-saved query', 'Bind parameters', 'Delimiter', 'Show this query here again', and 'Retain query'.



The screenshot shows the phpMyAdmin interface for the database 'db\_unklab'. In the left sidebar, the 'Structure' tab is selected. In the main area, the 'Table structure' section displays the columns of the 'tbl\_attendance\_list' table. A red arrow points to the first column, 'id\_attendance', which is highlighted in blue, indicating it is the primary key. The table structure is as follows:

#	Name	Type	Collation	Attributes
1	id_attendance	varchar(30)	utf8mb4_general_ci	
2	title_short	varchar(100)	utf8mb4_general_ci	
3	date_attendance	varchar(50)	utf8mb4_general_ci	
4	time_attendance	varchar(50)	utf8mb4_general_ci	
5	id_class	varchar(30)	utf8mb4_general_ci	
6	name_subject	varchar(100)	utf8mb4_general_ci	
7	email_lecturer	varchar(70)	utf8mb4_general_ci	
8	name_lecturer	varchar(70)	utf8mb4_general_ci	
9	room_latitude	varchar(50)	utf8mb4_general_ci	
10	room_longitude	varchar(50)	utf8mb4_general_ci	
11	max_radius	varchar(50)	utf8mb4_general_ci	
12	created_at	varchar(30)	utf8mb4_general_ci	

At the bottom, there are buttons for 'Print', 'Propose table structure', 'Move columns', 'Indexes', 'Add', 'Edit', 'Rename', 'Drop', and 'Normalize'.

# Adding data in Tables

Click the chosen table, click SQL button and input the data

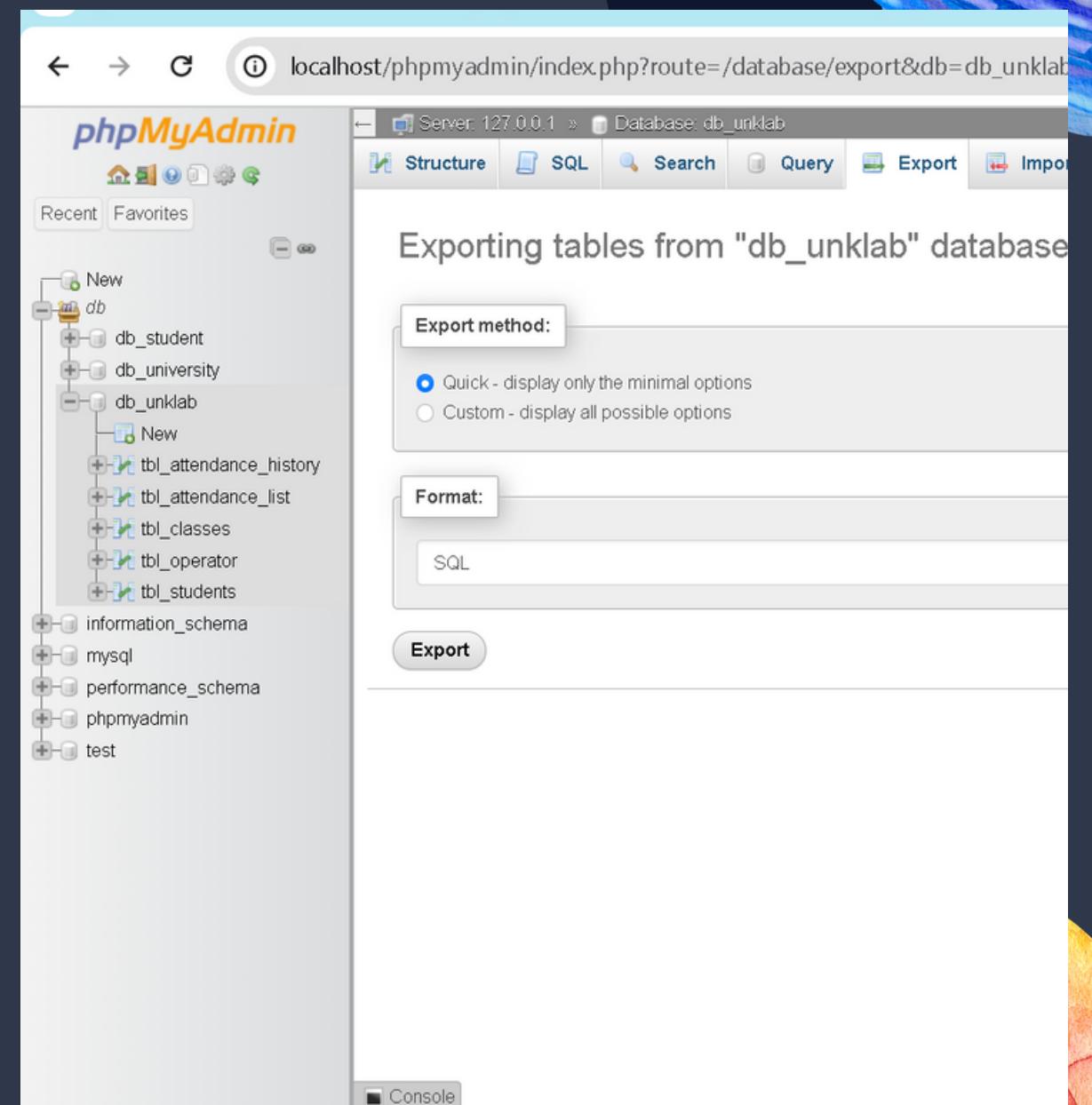
The screenshot shows the phpMyAdmin interface for a database named 'db\_unklab'. The 'tbl\_students' table is selected. The SQL tab is active, displaying the following SQL code:

```
1 INSERT INTO `tbl_students` (`reg_number`, `nim_number`, `email`, `fullname`, `password`, `created_at`, `updated_at`)
VALUES ('123456789012',
2 '154321', 's154321@student.unklab.ac.id', 'Radix Basalama', '12345', '2023-04-13 22:54:33', '2023-04-13 22:54:33'),
('105021710031', '21710268',
3 's21710268@student.unklab.ac.id', 'Pongantung, Jeremy', '1234qwer', '12-12-2023 10:32:43', '12-12-2023 10:32:43'),
('123456789012', '254321',
4 's254321@student.unklab.ac.id', 'Putra Podomi', '12345', '2023-04-13 22:54:33', '2023-04-13 22:54:33'), ('123456789012', '354321',
5 's354321@student.unklab.ac.id', 'ChinChin Long', '12345', '2023-04-13 22:54:33', '2023-04-13 22:54:33'), ('123456789012',
'454321',
6 's454321@student.unklab.ac.id', 'Miehie Kawekiang Sie', '12345', '2023-04-13 22:54:33', '2023-04-13 22:54:33'), ('123456789012',
'554321',
7 's554321@student.unklab.ac.id', 'Dinda Manopo Putri', '12345', '2023-04-13 22:54:33', '2023-04-13 22:54:33'), ('123456789012',
'604321',
8 's604321@student.unklab.ac.id', 'Margono Raharjo', '12345', '2023-04-13 22:54:33', '2023-04-13 22:54:33'), ('123456789012',
'644321',
```

The right side of the interface shows a list of columns: reg\_number, nim\_number, email, fullname, password, created\_at, and updated\_at.

# Backup Database MySQL

- 1) Buka PHPMyAdmin: Akses halaman PHPMyAdmin melalui bro
- 2) Pilih Database: Setelah masuk, pilih database yang ingin di backup dari panel kiri. Jika tidak ada database yang terlihat, pastikan telah membuat dan mengimpor database sebelumnya.
- 3) Pilih Tab "Export": Di bagian atas antarmuka PHPMyAdmin, temukan tab "Export" dan klik. Ini secara otomatis akan diarahkan ke halaman eksport database.

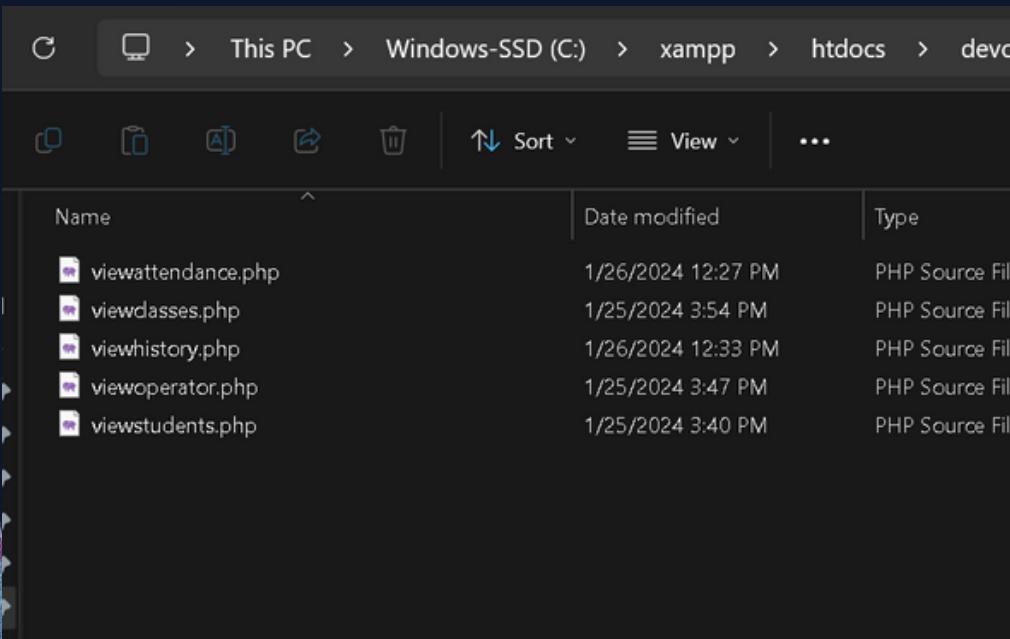


# Display Data

create php file on your directory

Write the code

Display it on your browser



A screenshot of a code editor showing a PHP script named config.php. The code includes HTML for a table header and body, and MySQLi database connection logic.

```
<!DOCTYPE html>
<html>
<head>
    <title>Data Operator</title>
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css">
</head>
<body>
    <div class="container">
        <h1>Data Operator</h1>
        <table class="table table-striped table-bordered table-hover">
            <thead>
                <tr>
                    <th class="text-center">NIP Number</th>
                    <th class="text-center">Email</th>
                    <th class="text-center">Full Name</th>
                    <th class="text-center">Password</th>
                    <th class="text-center">Phone Number</th>
                    <th class="text-center">Role</th>
                    <th class="text-center">Created At</th>
                    <th class="text-center">Updated At</th>
                </tr>
            </thead>
            <tbody>
                <tr>
                    <td></td>
                    <td></td>
                    <td></td>
                    <td></td>
                    <td></td>
                    <td></td>
                    <td></td>
                    <td></td>
                </tr>
            </tbody>
        </table>
    </div>
</body>
</html>

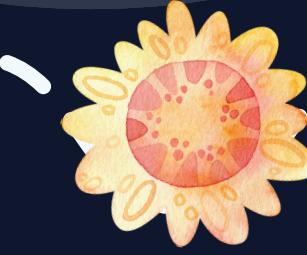
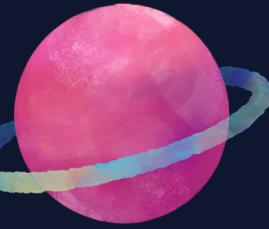
<?php
//koneksi ke database
$conn = mysqli_connect('localhost', 'root', '12345', 'db_unklab');

//periksa koneksi
if ($conn) {
    die("koneksi gagal: " . mysqli_connect_error());
}
?>
```

A screenshot of a web browser showing a table titled "Data Mahasiswa". The table has columns for Registration Number, NIM Number, Email, Full Name, Created At, and Updated At. The data is identical to the configuration file above.

Registration Number	NIM Number	Email	Full Name	Created At	Updated At
123456789012	154321	s154321@student.unklab.ac.id	Radix Basalama	2023-04-13 22:54:33	2023-04-13 22:54:33
105021710031	21710268	s21710268@student.unklab.ac.id	Pongantung, Jeremy	12-12-2023 10:32:43	12-12-2023 10:32:43
123456789012	254321	s254321@student.unklab.ac.id	Putra Podomi	2023-04-13 22:54:33	2023-04-13 22:54:33
123456789012	354321	s354321@student.unklab.ac.id	ChinChin Long	2023-04-13 22:54:33	2023-04-13 22:54:33
123456789012	454321	s454321@student.unklab.ac.id	Miekie Kawekang Sie	2023-04-13 22:54:33	2023-04-13 22:54:33
123456789012	554321	s554321@student.unklab.ac.id	Dinda Manopo Putri	2023-04-13 22:54:33	2023-04-13 22:54:33
123456789012	604321	s604321@student.unklab.ac.id	Margono Raharjo	2023-04-13 22:54:33	2023-04-13 22:54:33
123456789012	644321	s644321@student.unklab.ac.id	Sempoyonangan Ojimiso	2023-04-13 22:54:33	2023-04-13 22:54:33
123456789012	654321	s654321@student.unklab.ac.id	David Kawekang	12-12-2023 10:32:43	12-12-2023 10:32:43
123456789012	754321	s754321@student.unklab.ac.id	Citra Lentari Anada	2023-04-13 22:54:33	2023-04-13 22:54:33
123456789012	854321	s854321@student.unklab.ac.id	Sandra Dewi	2023-04-13 22:54:33	2023-04-13 22:54:33
123456789012	954321	s954321@student.unklab.ac.id	Putri Moningka	2023-04-13 22:54:33	2023-04-13 22:54:33

# Display Data


Data Mahasiswa

Registration Number	NIM Number	Email	Full Name	Created At	Updated At
123456789012	154321	s154321@student.uniklab.ac.id	Radix Basalama	2023-04-13 22:54:33	2023-04-13 22:54:33
10502110031	21710268	s21710268@student.uniklab.ac.id	Pongantung, Jeremy	12-12-2023 10:32:43	12-12-2023 10:32:43
123456789012	254321	s254321@student.uniklab.ac.id	Putra Podomi	2023-04-13 22:54:33	2023-04-13 22:54:33
123456789012	354321	s354321@student.uniklab.ac.id	Chin Chin Long	2023-04-13 22:54:33	2023-04-13 22:54:33
123456789012	454321	s454321@student.uniklab.ac.id	Miehie Kaweklang Sie	2023-04-13 22:54:33	2023-04-13 22:54:33
123456789012	554321	s554321@student.uniklab.ac.id	Dinda Manopo Putri	2023-04-13 22:54:33	2023-04-13 22:54:33
123456789012	604321	s604321@student.uniklab.ac.id	Margono Rahrjio	2023-04-13 22:54:33	2023-04-13 22:54:33
123456789012	644321	s644321@student.uniklab.ac.id	Sempoyongan Ojomiso	2023-04-13 22:54:33	2023-04-13 22:54:33
123456789012	654321	s654321@student.uniklab.ac.id	David Kaweklang	12-12-2023 10:32:43	12-12-2023 10:32:43
123456789012	754321	s754321@student.uniklab.ac.id	Citra Lenfari Anada	2023-04-13 22:54:33	2023-04-13 22:54:33
123456789012	854321	s854321@student.uniklab.ac.id	Sandra Dewi	2023-04-13 22:54:33	2023-04-13 22:54:33
123456789012	954321	s954321@student.uniklab.ac.id	Putri Moningka	2023-04-13 22:54:33	2023-04-13 22:54:33

Data Attendance List

ID Attendance	Title	Date	Time	ID class	Subject	Lecturer Email	Name Lecturer	Room Latitude	Room Longitude	Max Radius	Created At
ATD665ac4d56e4b7	#1	Attendance April - 2023	10:30 - 11:30	CLASS663ac4d56e4a8	Research Method	andrew@uniklab.ac.id	Andrew Liem	1,417,4176	124,984,0658	20	12-12-2023 10:32:43
ATD745ac4d56e4b7	#1	Attendance April - 2023	14:00 - 15:00	CLASS663ac4d56e4a8	Big Data Analysis	semmy@uniklab.ac.id	Semmy Wellem Taju	1,417,4176	124,984,0658	100	12-12-2023 10:32:43
ATD745ac4d56e4c7	#2	Attendance April - 2023	09:30	CLASS663ac4d56e4a8	System Analysis and Design	semmy@uniklab.ac.id	Semmy Wellem Taju	1,204,38484	124,343,566	200	12-12-2023 10:32:43
ATD788ac4d56e4b7	#1	Attendance April - 2023	08:30	CLASS5883ac4d56e4a8	Front-end Web Development	reymond@uniklab.ac.id	Reymond Rotikan	1,417,4176	124,984,0658	50	12-12-2023 10:32:43
ATD995ac4d56e4b7	#1	Attendance April - 2023	07:30	CLASS5993ac4d56e4a8	Computer Networking	stelly@uniklab.ac.id	Stelly Adam	1,417,4176	124,984,0658	40	12-12-2023 10:32:43
ATTE6444526a2e1b7	#3	Attendance April - 2023	08:30	CLASS663aa53d7fbc9	Big Data Analysis	semmy@uniklab.ac.id	Semmy Wellem Taju	1,419,1753	124,985,743	200	2023-04-23 10:32:43

Data Attendance History

ID class	ID Attendance	Student Email	Name Subject	Lecturer Email	Student ? room_latitude?	Student Longitude	Distance	Time take attendance	Status	Note	Created At
CLASS663ac4d56e4a8	ATD745ac4d56e4b7	s354321@student.uniklab.ac.id	Artificial Intelligence	semmy@uniklab.ac.id	1,239,484	124,348,583	10	10:15:49	P	2023-04-13 22:54:33	
CLASS663ac4d56e4a8	ATD745ac4d56e4b7	s154321@student.uniklab.ac.id	Artificial Intelligence	semmy@uniklab.ac.id	1,239,484	124,348,583	16	10:00:49	P	2023-04-13 22:54:33	
CLASS663ac4d56e4a8	ATD745ac4d56e4b7	s254321@student.uniklab.ac.id	Artificial Intelligence	semmy@uniklab.ac.id	1,239,484	124,348,583	12	10:05:49	P	2023-04-13 22:54:33	
CLASS663ac4d56e4a8	ATD745ac4d56e4b7	s354321@student.uniklab.ac.id	Artificial Intelligence	semmy@uniklab.ac.id	1,239,484	124,348,583	20	10:08:49	P	2023-04-13 22:54:33	
CLASS663ac4d56e4a8	ATD745ac4d56e4b7	s454321@student.uniklab.ac.id	Artificial Intelligence	semmy@uniklab.ac.id	1,239,484	124,348,583	15	10:20:49	P	2023-04-13 22:54:33	
CLASS663ac4d56e4a8	ATD745ac4d56e4b7	s554321@student.uniklab.ac.id	Artificial Intelligence	semmy@uniklab.ac.id	1,239,484	124,348,583	6	10:30:49	P	2023-04-13 22:54:33	

Data Classes

ID Class	Lecturer Email	Class Code	Subject Name	Lecturer Name	Faculty	Predi	SKS	Building Room	Room Latitude	Room Longitude	Jan/Jul Day Time	
CLAS5643B1629449e2	semmy@uniklab.ac.id	234ABC0	Java Programming	Semmy Wellem Taju	Pendidikan Keguruan Kristen (Religious)	3	GA Computer Lab	1,417,8155	124,984,4915	Setara Kamis, 08:00 - 10:00	semmy@uniklab.ac.id;jonathan@gmail.com;jeremy@yahoo.com;s254321@student.uniklab.ac.id;gudman@yahoo.com	
CLAS5643B17214505	semmy@uniklab.ac.id	2345ABC	Python Programming	Adam Stelly	Pendidikan Luar Sekolah (Non Formal Education)	3	GK1-204	1,417,8155	124,984,4915	Senin 08:00 - 10:00	254321@student.uniklab.ac.id;jan@yahoo.com;putra@gmail.com	
CLAS5643B183B8e58d	semmy@uniklab.ac.id	A134565	Artificial Intelligence	Green Sandang	Fakultas Ilmu Komputer	Sistem Informasi (Information System)	3	GK3-205	1,417,8155	124,984,4915	Senin Rabu 08:00 - 14:00	bobon@yahoo.com;jeremy@yahoo.com;s154321@student.uniklab.ac.id;z554321@student.uniklab.ac.id;nurulnabilaabdullah@gmail.com;s554321@student.uniklab.ac.id;panca@gmail.com;
CLAS5643B88975a476	semmy@uniklab.ac.id	P023225	Statistics and Probability	Semmy Wellem Taju	Fakultas Ilmu Komputer	Sistem Informatika (Information System)	3	GK2-Tissue Culture	1,417,8155	124,984,4915	Senin Rabu 08:00 - 09:00	154321@student.uniklab.ac.id;moningah@gmail.com;brenda@yahoo.com;s154321@student.uniklab.ac.id;jay@yahoo.com;manda@qmail.com;
CLAS5643a940726a8d	semmy@uniklab.ac.id	MCC425	Machine Learning Algorithms	Semmy Wellem Taju	Pendidikan Keguruan Kristen (Religious)	3	GA Computer Lab	1,417,8155	124,984,4915	Setara Kamis, 07:00 -	semmy@yahoo.com;tajudepi@gmail.com	

# Monitoring & Error Logging

Log error Apache dapat memberikan informasi tentang upaya serangan atau aktivitas mencurigakan!!!!



## Manually View Apache Error Log

The screenshot shows the XAMPP Control Panel v3.3.0 interface. The Apache service is running with PID 7412 and port 80,443. A context menu is open over the Apache log button, listing options: Apache (access.log), Apache (error.log), PHP (php\_error\_log), <Browse> [Apache], and <Browse> [PHP]. The Apache error log window displays the following log entries:

```
8:40:06 PM [Tomcat] or reconfigure Tomcat and the Control Panel to listen on a different port
8:40:06 PM [main] Starting Check-Timer
8:40:06 PM [main] Control Panel Ready
8:40:36 PM [Apache] Attempting to start Apache app...
8:40:36 PM [Apache] Status change detected: running
8:41:15 PM [mysql] Attempting to start MySQL app...
8:41:17 PM [mysql] Status change detected: running
```

## Open Web Server Logs

The screenshot shows the http Logs Viewer website. The main page has tabs for Home, Features, Screenshots, Purchase, Help, and Contact. Below the tabs is a search bar and a link to "http://apacheviewer.com". The central part of the page is a log viewer interface titled "Http Log Viewer". It shows a table of log entries with columns: IP Address, Date, Request, Status, Size, Country, City, Referrer, and User Agent. The table includes rows such as:

IP Address	Date	Request	Status	Size	Country	City	Referrer	User Agent
137.117.42.218	9/7/2020 9:38:12 AM	GET /index.php HTTP/1.1	200	62	United States	Washington	-	Netgear Modem
114.119.145.5	9/7/2020 9:38:24 AM	GET /favicon_2.htm HTTP/1.1	200	2962	Singapore	N/A	-	Netgear Modem
165.227.77.19	9/7/2020 9:38:33 AM	GET /index.php?HTTP/1.1	200	62	South Africa	Johannesburg	-	Netgear Modem
137.117.42.218	9/7/2020 9:42:17 AM	GET /index.php HTTP/1.1	200	62	United States	Washington	-	Netgear Modem
82.76.6.13	9/7/2020 9:43:58 AM	GET /index.php?HTTP/1.1	200	7688	Romania	Bucharest	-	Netgear Modem
137.117.42.218	9/7/2020 9:44:39 AM	GET /index.php?HTTP/1.1	200	62	United States	Washington	-	Netgear Modem
192.168.1.254	9/7/2020 9:46:41 AM	GET /index.php HTTP/1.1	301	0	N/A	-	-	Startups
137.117.42.218	9/7/2020 9:46:49 AM	GET /index.php HTTP/1.1	200	62	United States	Washington	-	Netgear Modem
137.117.42.218	9/7/2020 9:48:15 AM	GET /index.php?HTTP/1.1	200	62	United States	Washington	-	Netgear Modem
137.117.42.218	9/7/2020 9:50:48 AM	GET /index.php?HTTP/1.1	301	0	United States	Washington	-	Netgear Modem
134.118.12.23	9/7/2020 9:52:08 AM	POST /joomla/administrator/login HTTP/1.1	404	196	Netherlands	Amsterdam	http://46.11.25.200.80/admin/login.asp	Modem
45.148.10.28	9/7/2020 9:52:48 AM	GET /index.php HTTP/1.1	200	62	United States	Washington	-	Netgear Modem

At the bottom of the page, there is a message: "With http logs viewer you can easily filter and a...".

Open web server logs

This website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. [Accept](#)

Thank  
you!

