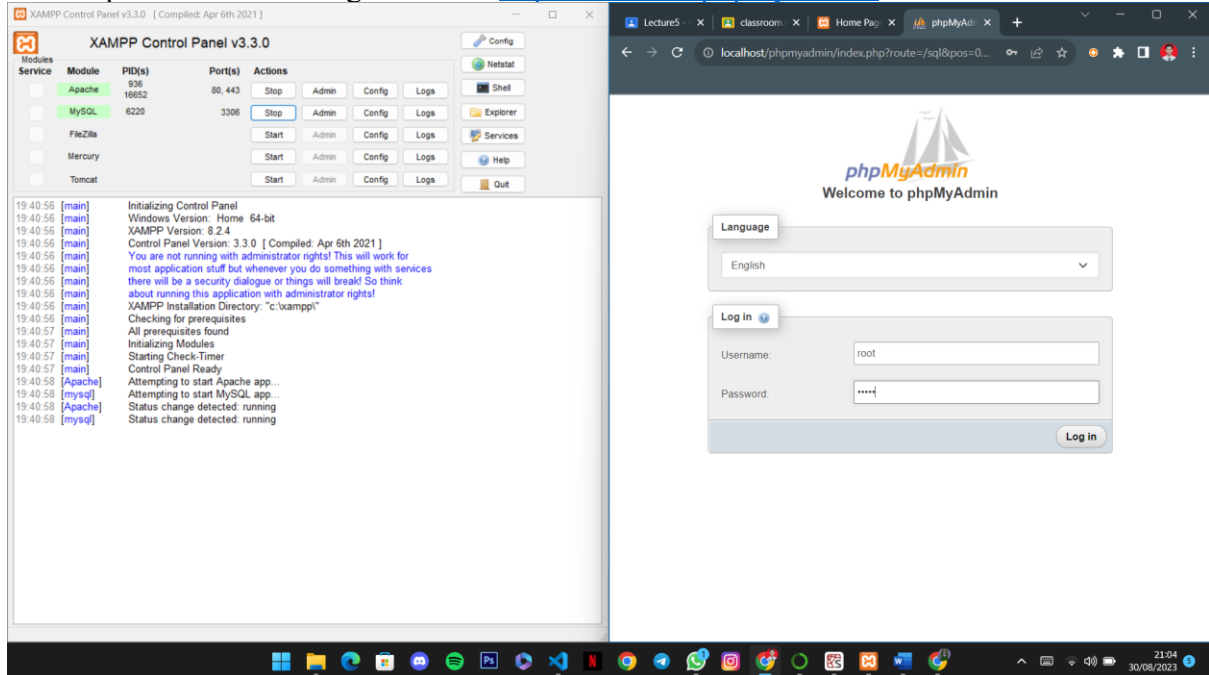
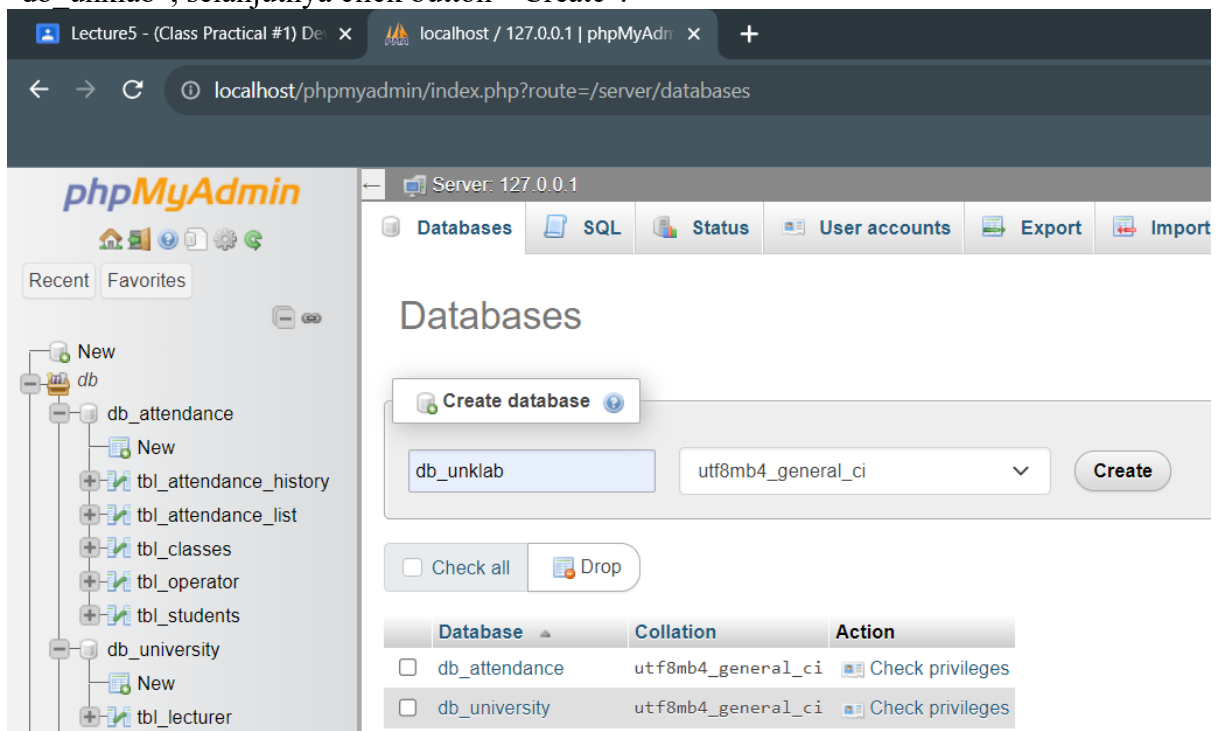


1 – Create New Database & Tables

Sebelum membuat sebuah database, jangan lupa menjalankan service di XAMPP control panel setelah itu login melalui <http://localhost/phpmyadmin/>

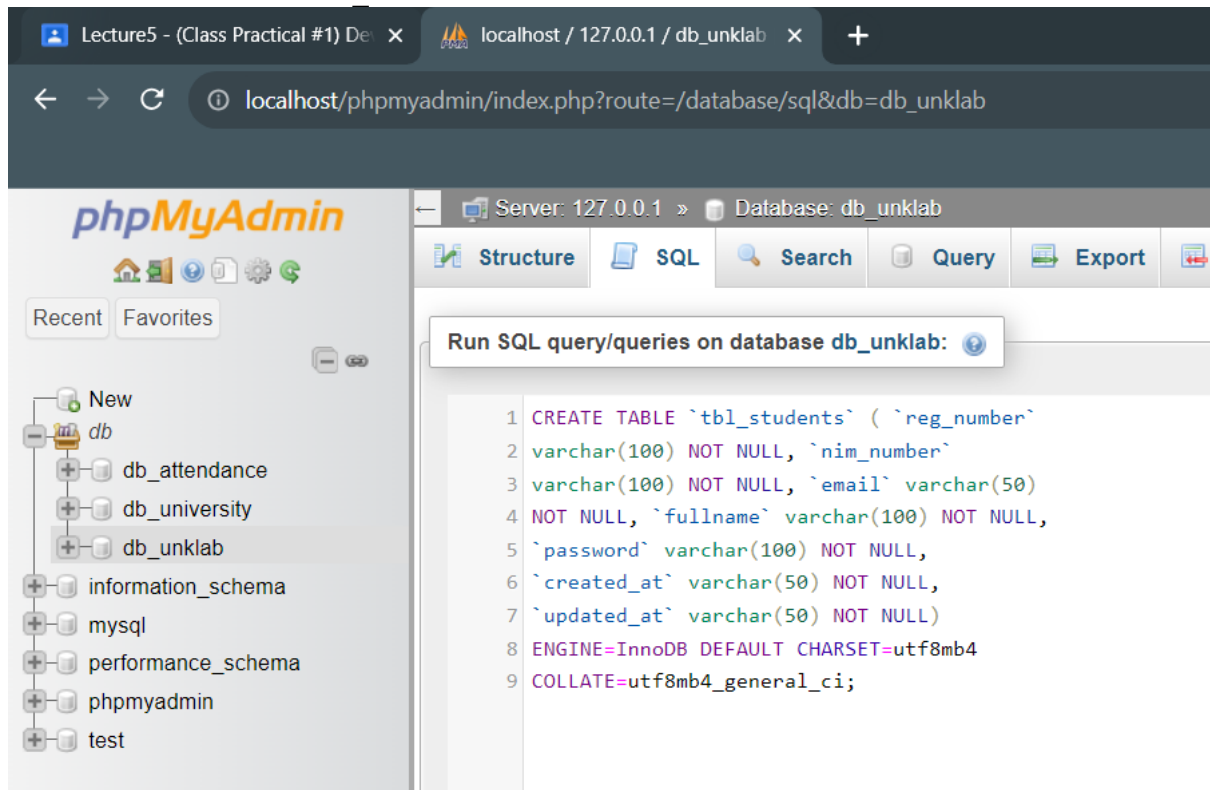


Berikutnya buatlah database yang baru dengan mengklik button “New” lalu beri nama “db unklab”, selanjutnya click button “Create”.

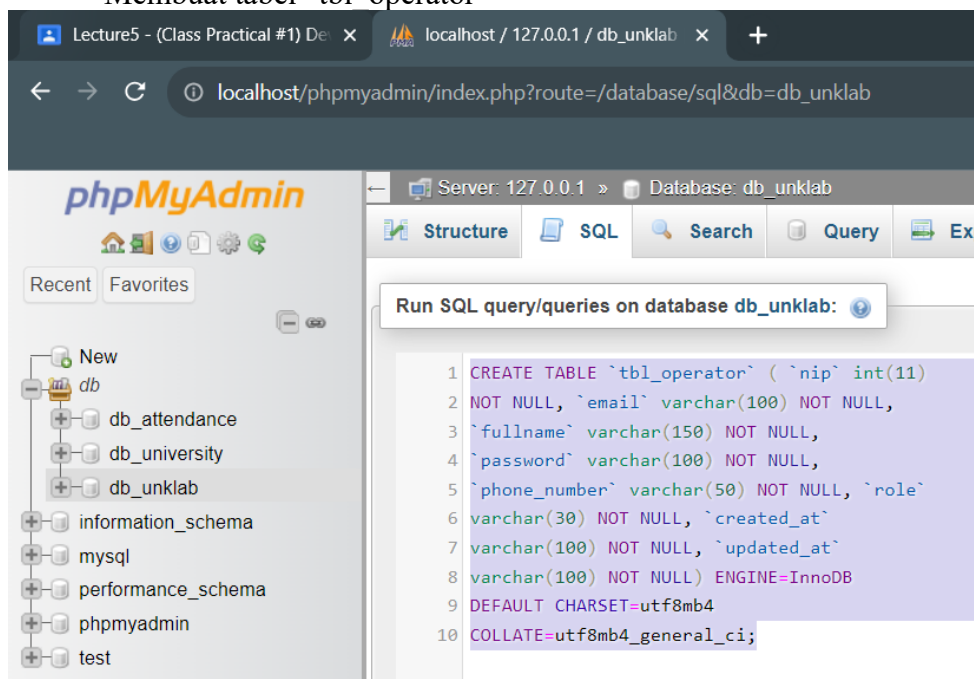


Selanjutnya pastikan kita mengklik “db_unklab” lalu klik button SQL untuk membuat tabel baru dengan nama “tbl_students”, “tbl_operator”, “tbl_classes” dan “tbl_attendance_list” menggunakan sql command seperti gambar-gambar dibawah ini:

Membuat tabel “tbl_students”



Membuat tabel “tbl_operator”



Membuat tabel "tbl_classes"

The screenshot shows the phpMyAdmin interface for the 'db_unklab' database. The left sidebar displays the database structure, including 'db_unklab'. The main panel is titled 'Run SQL query/queries on database db_unklab:' and contains the following SQL code:

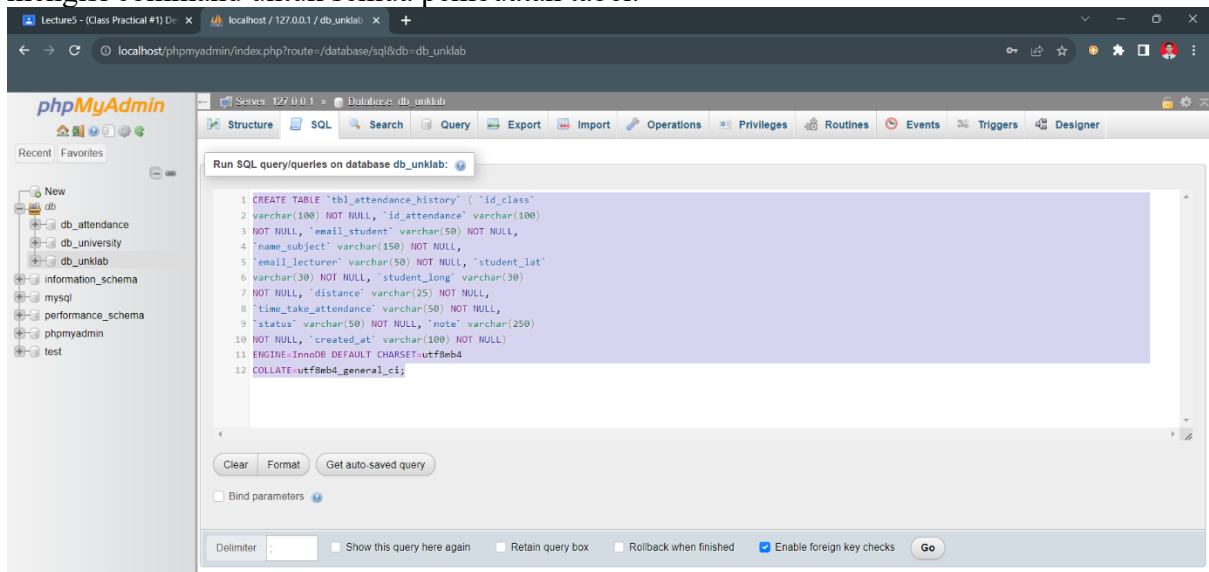
```
1 CREATE TABLE `tbl_classes` ( `id_class` varchar(100) NOT  
2 NULL, `email_lecturer` varchar(50) NOT NULL,  
3 `code_class` varchar(30) NOT NULL, `name_subject`  
4 varchar(150) NOT NULL, `name_lecturer` varchar(100)  
5 NOT NULL, `fakultas` varchar(250) NOT NULL, `prodi`  
6 varchar(150) NOT NULL, `sks` varchar(25) NOT NULL,  
7 `building_room` varchar(50) NOT NULL, `room_latitude`  
8 varchar(50) NOT NULL, `room_longitude` varchar(50) NOT  
9 NULL, `jadwal_class_day_time` varchar(100) NOT NULL,  
10 `daftar_email_student` text NOT NULL, `created_at`  
11 varchar(50) NOT NULL, `status_class` varchar(30) NOT  
12 NULL) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4  
13 COLLATE=utf8mb4_general_ci;
```

Membuat tabel "tbl_attendance list"

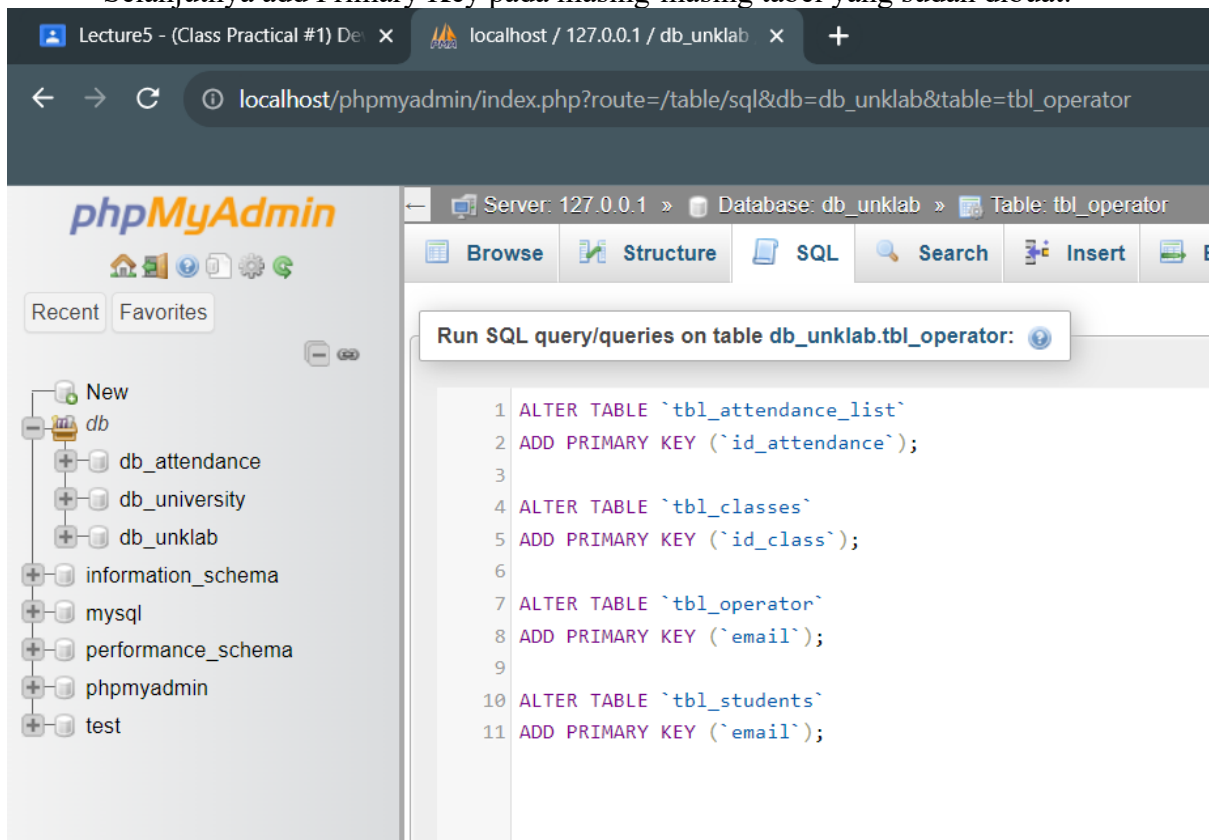
The screenshot shows the phpMyAdmin interface for the 'db_unklab' database. The left sidebar displays the database structure, including 'db_unklab'. The main panel is titled 'Run SQL query/queries on database db_unklab:' and contains the following SQL code:

```
1 CREATE TABLE `tbl_attendance_list` ( `id_attendance`  
2 varchar(30) NOT NULL, `title_short` varchar(100) NOT  
3 NULL, `date_attendance` varchar(50) NOT NULL,  
4 `time_attendance` varchar(50) NOT NULL, `id_class`  
5 varchar(30) NOT NULL, `name_subject` varchar(100)  
6 NOT NULL, `email_lecturer` varchar(70) NOT NULL,  
7 `name_lecturer` varchar(70) NOT NULL,  
8 `room_latitude` varchar(50) NOT NULL,  
9 `room_longitude` varchar(50) NOT NULL,  
10 `max_radius` varchar(50) NOT NULL, `created_at`  
11 varchar(30) NOT NULL) ENGINE=InnoDB DEFAULT  
12 CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

Membuat tabel “tbl_attendance_history”. Jangan lupa untuk klik button “Go” sesudah mengisi command untuk semua pembuatan tabel.



Selanjutnya add Primary Key pada masing-masing tabel yang sudah dibuat.



Cek primary key yang telah di add ke dalam masing-masing tabel, sebagai contoh primary key untuk “id attendance” pada tabel attendance list.

The screenshot shows the phpMyAdmin interface for the 'db_unklab' database. The 'Table: tbl_attendance_list' tab is selected. A message at the top states: "Your SQL query has been executed successfully." Below this, the SQL query is displayed: `ALTER TABLE `tbl_attendance_list` ADD PRIMARY KEY(`id_attendance`);`. The 'Table structure' tab is active, showing a list of columns with their data types and attributes.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id_attendance	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
2	title_short	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
3	date_attendance	date			No	None			Change Drop More
4	time_attendance	time(6)			No	None			Change Drop More
5	id_class	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
6	name_subject	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
7	email_lecturer	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
8	name_lecturer	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
9	room_latitude	int(100)			No	None			Change Drop More
10	room_longitude	int(100)			No	None			Change Drop More
11	max_radius	int(100)			No	None			Change Drop More
12	created_at	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More

Klik icon + disamping kiri “db unklab” untuk melihat tabel-tabel yang sudah dibuat.

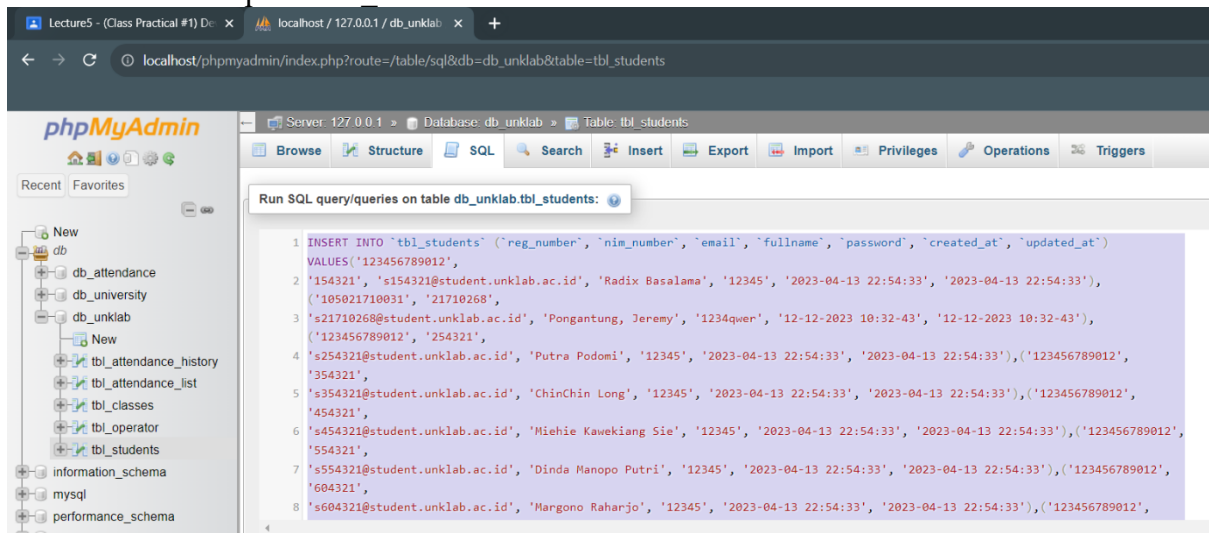
The screenshot shows the phpMyAdmin interface for the 'db_unklab' database. The 'Structure' tab is selected, displaying a list of tables in the database. A search filter is present at the top of the table list.

Table	Action	Rows	Type	Collation	Size	Overhead
tbl_attendance_history	⚙️ Browse ⚙️ Structure ⚙️ Search ⚙️ Insert ⚙️ Empty ⚙️ Drop	13	InnoDB	utf8mb4_general_ci	16.0 K B	-
tbl_attendance_list	⚙️ Browse ⚙️ Structure ⚙️ Search ⚙️ Insert ⚙️ Empty ⚙️ Drop	24	InnoDB	utf8mb4_general_ci	16.0 K B	-
tbl_classes	⚙️ Browse ⚙️ Structure ⚙️ Search ⚙️ Insert ⚙️ Empty ⚙️ Drop	13	InnoDB	utf8mb4_general_ci	16.0 K B	-
tbl_operator	⚙️ Browse ⚙️ Structure ⚙️ Search ⚙️ Insert ⚙️ Empty ⚙️ Drop	6	InnoDB	utf8mb4_general_ci	16.0 K B	-
tbl_students	⚙️ Browse ⚙️ Structure ⚙️ Search ⚙️ Insert ⚙️ Empty ⚙️ Drop	12	InnoDB	utf8mb4_general_ci	16.0 K B	-
5 tables	Sum	68	InnoDB	utf8mb4_general_ci	80.0 K B	0 B

2 – Insert Data in Tables

Untuk menginputkan data ke dalam table, pastikan bahwa kita mengklik table name yang menjadi target dan selanjutnya click tab “SQL”.

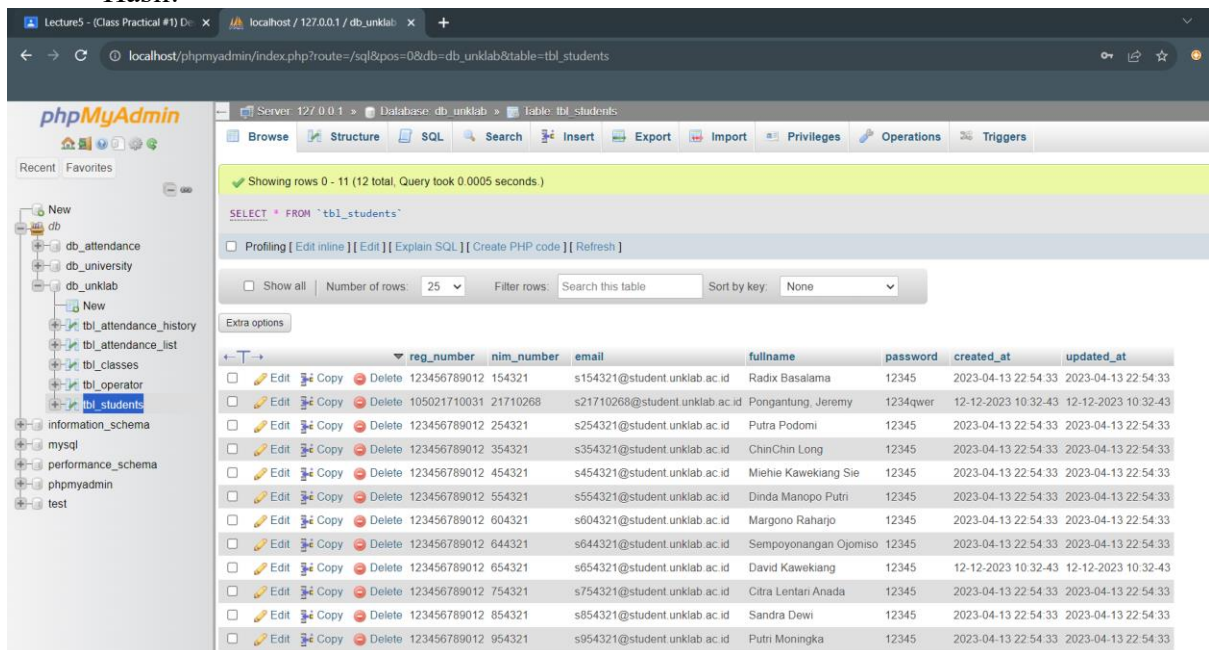
Insert data pada “tbl_students”



Run SQL query/queries on table db_unklab.tbl_students:

```
1 INSERT INTO `tbl_students` (`reg_number`, `nim_number`, `email`, `fullname`, `password`, `created_at`, `updated_at`)
2 VALUES ('123456789012',
3 '154321', 's154321@student.unklab.ac.id', 'Radix Basalama', '12345', '2023-04-13 22:54:33', '2023-04-13 22:54:33'),
4 ('105021710031', '21710268',
5 's21710268@student.unklab.ac.id', 'Pongantung, Jeremy', '1234qwer', '12-12-2023 10:32-43', '12-12-2023 10:32-43'),
6 ('123456789012', '254321',
7 's254321@student.unklab.ac.id', 'Putra Podomi', '12345', '2023-04-13 22:54:33', '2023-04-13 22:54:33'), ('123456789012',
8 '354321',
9 's354321@student.unklab.ac.id', 'ChinChin Long', '12345', '2023-04-13 22:54:33', '2023-04-13 22:54:33'), ('123456789012',
10 '454321',
11 's454321@student.unklab.ac.id', 'Miehie Kawekiang Sie', '12345', '2023-04-13 22:54:33', '2023-04-13 22:54:33'), ('123456789012',
12 '554321',
13 's554321@student.unklab.ac.id', 'Dinda Manopo Putri', '12345', '2023-04-13 22:54:33', '2023-04-13 22:54:33'), ('123456789012',
14 '604321',
15 's604321@student.unklab.ac.id', 'Margono Raharjo', '12345', '2023-04-13 22:54:33', '2023-04-13 22:54:33'), ('123456789012',
```

Hasil:



Showing rows 0 - 11 (12 total. Query took 0.0005 seconds)

```
SELECT * FROM `tbl_students`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

	reg_number	nim_number	email	fullname	password	created_at	updated_at
<input type="checkbox"/>	123456789012	154321	s154321@student.unklab.ac.id	Radix Basalama	12345	2023-04-13 22:54:33	2023-04-13 22:54:33
<input type="checkbox"/>	105021710031	21710268	s21710268@student.unklab.ac.id	Pongantung, Jeremy	1234qwer	12-12-2023 10:32:43	12-12-2023 10:32:43
<input type="checkbox"/>	123456789012	254321	s254321@student.unklab.ac.id	Putra Podomi	12345	2023-04-13 22:54:33	2023-04-13 22:54:33
<input type="checkbox"/>	123456789012	354321	s354321@student.unklab.ac.id	ChinChin Long	12345	2023-04-13 22:54:33	2023-04-13 22:54:33
<input type="checkbox"/>	123456789012	454321	s454321@student.unklab.ac.id	Miehie Kawekiang Sie	12345	2023-04-13 22:54:33	2023-04-13 22:54:33
<input type="checkbox"/>	123456789012	554321	s554321@student.unklab.ac.id	Dinda Manopo Putri	12345	2023-04-13 22:54:33	2023-04-13 22:54:33
<input type="checkbox"/>	123456789012	604321	s604321@student.unklab.ac.id	Margono Raharjo	12345	2023-04-13 22:54:33	2023-04-13 22:54:33
<input type="checkbox"/>	123456789012	644321	s644321@student.unklab.ac.id	Sempoyonangan Ojomiso	12345	2023-04-13 22:54:33	2023-04-13 22:54:33
<input type="checkbox"/>	123456789012	654321	s654321@student.unklab.ac.id	David Kawekiang	12345	12-12-2023 10:32:43	12-12-2023 10:32:43
<input type="checkbox"/>	123456789012	754321	s754321@student.unklab.ac.id	Citra Lentari Anada	12345	2023-04-13 22:54:33	2023-04-13 22:54:33
<input type="checkbox"/>	123456789012	854321	s854321@student.unklab.ac.id	Sandra Dewi	12345	2023-04-13 22:54:33	2023-04-13 22:54:33
<input type="checkbox"/>	123456789012	954321	s954321@student.unklab.ac.id	Putri Moningka	12345	2023-04-13 22:54:33	2023-04-13 22:54:33

Insert data pada “tbl operator”

The screenshot shows the phpMyAdmin interface with the 'tbl_operator' table selected. The SQL query editor contains the following INSERT statement:

```
1 INSERT INTO `tbl_operator` (`nip`, `email`, `fullname`, `password`, `phone_number`, `role`, `created_at`, `updated_at`)
2 VALUES (12345,
3 'andrews@unklab.ac.id', 'Andrew Liem', 'abcd123', '0852123456', 'admin', '12-04-2023 12:04:32', '12-04-2023 12:04:32'), (12345,
4 'gladis@unklab.ac.id',
5 'Gladis Sepang', 'abcw1243', '0852123456', 'admin', '12-04-2023 12:04:32', '12-04-2023 12:04:32'), (876578,
6 'juamambu@unklab.ac.id', 'Juan Taju',
7 'acbc1213', '0852123456', 'admin', '12-04-2023 12:04:32\r\n', '12-04-2023 12:04:32\r\n'), (34567, 'reymond@unklab.ac.id', 'Reymond
Rotikan', '123475',
8 '0852123456', 'staff', '12-04-2023 12:04:32', '12-04-2023 12:04:32'), (12345, 'semmytaju@unklab.ac.id', 'Semmy Wellem Taju',
9 'abc1233', '0852123456',
10 'admin', '12-04-2023 12:04:32', '12-04-2023 12:04:32'), (23456, 'stenlyadam@unklab.ac.id', 'Stenly Adam', '123425', '0852123456',
11 'admin', '12-04-2023
12 12:04:32', '12-04-2023 12:04:32');
```

Hasil:

The screenshot shows the phpMyAdmin interface displaying the result of the SQL query. A message indicates that the current selection does not contain a unique column. The query executed was:

```
SELECT * FROM `tbl_operator`
```

The result shows 6 rows of data:

nip	email	fullname	password	phone_number	role	created_at	updated_at
12345	andrews@unklab.ac.id	Andrew Liem	abcd123	0852123456	admin	12-04-2023 12:04:32	12-04-2023 12:04:32
12345	gladis@unklab.ac.id	Gladis Sepang	abcw1243	0852123456	admin	12-04-2023 12:04:32	12-04-2023 12:04:32
876578	juamambu@unklab.ac.id	Juan Taju	acbc1213	0852123456	admin	12-04-2023 12:04:32	12-04-2023 12:04:32
34567	reymond@unklab.ac.id	Reymond Rotikan	123475	0852123456	staff	12-04-2023 12:04:32	12-04-2023 12:04:32
12345	semmytaju@unklab.ac.id	Semmy Wellem Taju	abc1233	0852123456	admin	12-04-2023 12:04:32	12-04-2023 12:04:32
23456	stenlyadam@unklab.ac.id	Stenly Adam	123425	0852123456	admin	12-04-2023 12:04:32	12-04-2023 12:04:32

Insert data pada “tbl_classes”

The screenshot shows the phpMyAdmin interface with the 'tbl_classes' table selected. The SQL query editor contains the following INSERT statement:

```
1 INSERT INTO `tbl_classes` (`id_class`, `email_lecturer`, `code_class`, `name_subject`, `name_lecturer`, `fakultas`, `prodi`, `sks`, `building_room`,  
2 `room_latitude`, `room_longitude`, `jadwal_class_day_time`, `daftar_email_student`, `created_at`, `status_class`) VALUES ('CLASS564381629449e2',  
3 `semy@unklab.ac.id`, '234ABCD', 'Java Programming', 'Semmy Wellem Taju', 'Fakultas Ekonomi', 'Pendidikan Keagamaan Kristen (Religious)', '3 SKS', 'GA  
Computer',  
4 Lab 202/PIK', '1,4178155', '124,9844905', 'Selasa - Kamis, 08.00 - 10.00',  
5 `semy@unklab.ac.id,yonatan@gmail.com,jeremy@yahoo.com,s254321@student.unklab.ac.id,s454321@student.unklab.ac.id,tajusemy@  
6 yahoo.com,budiman@yahoo.com', '2023-04-13 22:46:47', 'complete'), ('CLASS564381721a4505', `semy@unklab.ac.id`, '2345ABC', 'Python Programming', 'Adam  
Stelly',  
7 'Fakultas Pendidikan', 'Pendidikan Luar Sekolah (Non Formal Education)', '3 SKS', 'GK1-204 Comp. Lab (Hardware)', '1,4178155', '124,9844905', 'Senin -  
Rabu, 08.00  
8 09.00', 's254321@student.unklab.ac.id,juan@yahoo.com,putra@gmail.com', '2023-04-13 22:54:33', 'complete'), ('CLASS564383858ec50d', `semy@unklab.ac.id`,  
9 'AI1456S', 'Artificial Intelligence', 'Green Sandag', 'Fakultas Ilmu Komputer', 'Sistem Informasi (Information System)', '3 SKS', 'GK3-205', '1,4178155',  
10 '124,9844905', 'Senin  
~ Rabu, 14.30 - 16.00',  
11 `bobon@yahoo.com,jeremy@yahoo.com,s154321@student.unklab.ac.id,s254321@student.unklab.ac.id,s354321@student.unklab.ac.id,semy@yahoo.com,s454321@stude
```

Hasil:

The screenshot shows the phpMyAdmin interface displaying the result of the SQL query. The table 'tbl_classes' contains 13 rows of data. The columns are: id_class, email_lecturer, code_class, name_subject, name_lecturer, fakultas, prodi, sks, building_room, room_latitude, room_longitude, jadwal_class_day_time, and daftar_email_student.

id_class	email_lecturer	code_class	name_subject	name_lecturer	fakultas	prodi	sks	building_room	room_latitude	room_longitude	jadwal_class_day_time	daftar_email_student
CLASS564381629449e2	semy@unklab.ac.id	234ABCD	Java Programming	Semmy Wellem Taju	Fakultas Ekonomi	Pendidikan Keagamaan Kristen (Religious)	3	GA Computer Lab 202/PIK	1,4178155	124,9844905	Selasa - Kamis, 08.00 - 10.00	semy@unklab.ac.id,yonatan@gmail.com,jeremy@yahoo.com,s254321@student.unklab.ac.id,juan@yahoo.com,putra@gmail.com
CLASS564381721a4505	semy@unklab.ac.id	2345ABC	Python Programming	Adam Stelly	Fakultas Pendidikan	Pendidikan Luar Sekolah (Non Formal Education)	3	GK1-204 Comp Lab (Hardware)	1,4178155	124,9844905	Senin - Rabu, 08.00 - 09.00	s254321@student.unklab.ac.id,juan@yahoo.com,putra@gmail.com
CLASS564383858ec50d	semy@unklab.ac.id	A03456S	Artificial Intelligence	Green Sandag	Fakultas Ilmu Komputer	Sistem Informasi (Information System)	3	GK3-205	1,4178155	124,9844905	Senin - Rabu, 14.30 - 16.00	bobon@yahoo.com,jeremy@yahoo.com,s154321@student.unklab.ac.id,monnikatris@gmail.com
CLASS5643838975a470	semy@unklab.ac.id	PD23222S	Statistics and Probability	Semmy Wellem Taju	Fakultas Ilmu Komputer	Sistem Informasi (Information System)	3	GK2-Tissue Culture Lab	1,4178155	124,9844905	Senin - Rabu, 08.00 - 09.00	s154321@student.unklab.ac.id,monnikatris@gmail.com
CLASS5643840728a3d	semy@unklab.ac.id	MLC4335	Machine Learning Algorithms	Semmy Wellem Taju	Fakultas Ilmu Komputer	Pendidikan Keagamaan Kristen (Religious)	3	GA Computer Lab 202/PIK	1,4178155	124,9844905	Selasa - Kamis, 07.00 - 08.30	semy@yahoo.com,tajudespien@gmail.com
CLASS5643843d785c9	semy@unklab.ac.id	DEA864	Big Data Analysis	Stelly Adam	Fakultas Ilmu Komputer	Sistem Informasi (Information System)	3	GK3-203	1,4191753	124,9845743	Senin - Rabu, 17.00 - 18.00	semy@unklab.ac.id,s04321@student.unklab.ac.id
CLASS564384626a4a8	semy@unklab.ac.id	FED3464	Front-end Web Development	Raisia Marinka	Asademi Saekden Manajemen Indonesia	Pendidikan Keagamaan Kristen (Religious)	3	GA Computer Lab 202/PIK	1,4174170	124,9840958	Senin - Rabu, 14.30 - 16.00	budiy@gmail.com,s21710208@student.unklab.ac.id

Insert data pada “tbl attendance list”

The screenshot shows the phpMyAdmin interface with the 'tbl_attendance_list' table selected. The SQL query editor contains the following INSERT statement:

```
1 INSERT INTO `tbl_attendance_list` (`id_attendance`, `title_short`, `date_attendance`, `time_attendance`, `id_class`,  
2 `name_subject`, `email_lecturer`,  
3 `name_lecturer`, `room_latitude`, `room_longitude`, `max_radius`, `created_at`) VALUES ('ATD665ac4d56e4b7', 'Attendance #1', '21  
4 April 2023', '10:30 - 11:30',  
5 'CLASS563ac4d56e4a8', 'Research Method', 'andrew@unklab.ac.id', 'Andrew Lien', '1,4174176', '124,9840658', '20', '12-12-2023  
6 10:32-43'), ('ATD745ac4d56e4b7',  
7 'Attendance #1', '17 April 2023', '14:00 - 15:00', 'CLASS643ac4d56e4a8', 'Big Data Analysis', 'semmy@unklab.ac.id', 'Semmy  
8 Wellem Taju', '1,4174176', '124,9840658', '100',  
9 '12-12-2023 10:32-43'), ('ATD745ac4d56e4c7', 'Attendance #2', '26 April 2023', '09:30 - 10:40', 'CLASS643ac4d56e4a8', 'System  
10 Analysis and Design',  
11 'semmy@unklab.ac.id', 'Semmy Wellem Taju', '1,20438484', '124,343566', '200', '12-12-2023 10:32-43'), ('ATD788ac4d56e4b7',  
12 'Attendance #1', '20 April 2023', '08:30 -  
13 19:30', 'CLASS883ac4d56e4a8', 'Front-end Web Development', 'reymond@unklab.ac.id', 'Reymond Rotikan', '1,4174176',  
14 '124,9840658', '50', '12-12-2023 10:32-  
15 43'), ('ATD995ac4d56e4b7', 'Attendance #1', '19 April 2023', '07:30 - .0830', 'CLASS993ac4d56e4a8', 'Computer Networkings',
```

Hasil:

The screenshot shows the phpMyAdmin interface displaying the result of the SQL query. The table 'tbl_attendance_list' contains 23 rows of data. The columns are: id_attendance, title_short, date_attendance, time_attendance, id_class, name_subject, email_lecturer, name_lecturer, room_latitude, room_longitude, max_radius, and created_at.

id_attendance	title_short	date_attendance	time_attendance	id_class	name_subject	email_lecturer	name_lecturer	room_latitude	room_longitude	max_radius	created_at
ATD665ac4d56e4b7	Attendance #1	0000-00-00	00:00:10.300000	CLASS563ac4d56e4a8	Research Method	andrew@unklab.ac.id	Andrew Lien	1	124	20	12-12-2023 10:32:43
ATD745ac4d56e4b7	Attendance #1	0000-00-00	00:00:14.000000	CLASS543ac4d56e4a8	Big Data Analysis	semmy@unklab.ac.id	Semmy Wellem Taju	1	124	100	12-12-2023 10:32:43
ATD745ac4d56e4c7	Attendance #2	0000-00-00	00:00:09.300000	CLASS543ac4d56e4a8	System Analysis and Design	semmy@unklab.ac.id	Semmy Wellem Taju	1	124	200	12-12-2023 10:32:43
ATD788ac4d56e4b7	Attendance #1	0000-00-00	00:00:08.300000	CLASS883ac4d56e4a8	Front-end Web Development	reymond@unklab.ac.id	Reymond Rotikan	1	124	50	12-12-2023 10:32:43
ATD995ac4d56e4b7	Attendance #1	0000-00-00	00:00:07.300000	CLASS993ac4d56e4a8	Computer Networkings	stelly@unklab.ac.id	Stelly Adam	1	124	40	12-12-2023 10:32:43
ATTE444526a2e1b7	Attendance #3	0000-00-00	00:00:06.000000	CLASS543ac4d56e4a8	Big Data Analysis	semmy@unklab.ac.id	Stelly Adam	1	124	200	2023-04-23 05:32:50
ATTE444535056c0e	Attendance #3	0000-00-00	00:00:07.000000	CLASS543ac4d56e4a8	Front-end Web Development	semmy@unklab.ac.id	Raisa Maringka	1	124	250	2023-04-23 05:39:45
ATTE44502270c5c	Attendance #15	0000-00-00	00:00:20.000000	CLASS543ac4d56e4a8	Big Data Analysis	semmy@unklab.ac.id	Stelly Adam	1	124	150	2023-04-24 06:33:58
ATTE4451c3b39c0a	Attendance #1	0000-00-00	00:00:07.000000	CLASS5445e3981e4a8	Natural Language Processing	juan@unklab.ac.id	Juan Taju	1	124	100	2023-04-24 11:13:42
ATTE4462606c35a3	Attendance #1	0000-00-00	00:00:08.000000	CLASS5438385ac58d	Artificial Intelligence	semmy@unklab.ac.id	Oreen Sandag	1	124	50	2023-04-24 14:47:56
ATTE446261c86d8b	Attendance #2	0000-00-00	00:00:10.000000	CLASS5438385ac58d	Artificial Intelligence	semmy@unklab.ac.id	Oreen Sandag	1	124	60	2023-04-24 14:48:44
ATTE446478a4842	Attendance #4	0000-00-00	00:00:13.000000	CLASS563ac4d56e4a8	Front-end Web Development	semmy@unklab.ac.id	Raisa Maringka	1	124	70	2023-04-24 17:12:55
ATTE447363ab836f	Attendance #5	0000-00-00	00:00:08.000000	CLASS543ac4d56e4a8	Front-end Web Development	semmy@unklab.ac.id	Raisa Maringka	1	124	70	2023-04-25 10:11:08
ATTE44754987d94	Attendance #1	0000-00-00	00:00:07.000000	CLASS54458b7c0e40e	Fundamental Apache PHP5	semmy@unklab.ac.id	Semmy Wellem Taju	1	124	60	2023-04-25 12:18:55
ATTE44754987d94	Attendance #2	0000-00-00	00:00:08.000000	CLASS54458b7c0e40e	Fundamental Apache PHP5	semmy@unklab.ac.id	Semmy Wellem Taju	1	124	150	2023-04-25 12:18:13
ATTE4510608525a5	Attendance #1	0000-00-00	00:00:07.000000	CLASS5438385ac58d	Statistics and Probability	semmy@unklab.ac.id	Semmy Wellem Taju	1	124	60	2023-05-03 11:36:12
ATTE4510608525a5	Attendance #2	0000-00-00	00:00:08.000000	CLASS5438385ac58d	Statistics and Probability	semmy@unklab.ac.id	Semmy Wellem Taju	1	124	70	2023-05-03 11:36:46
ATTE4510608525a5	Pertemuan ke-3	0000-00-00	00:00:08.000000	CLASS5438385ac58d	Statistics and Probability	semmy@unklab.ac.id	Semmy Wellem Taju	1	124	60	2023-05-03 11:37:05

Insert data pada “tbl attendance history”

The screenshot shows the phpMyAdmin interface with the database db_unklab selected. The table tbl_attendance_history is chosen. An SQL query is entered in the query editor:

```
1 INSERT INTO `tbl_attendance_history` (`id_class`, `id_attendance`, `email_student`, `name_subject`, `email_lecturer`,
2 `student_lat`, `student_long`, `distance`,
3 `time_take_attendance`, `status`, `note`, `created_at`) VALUES ('CLASS643ac4d56e4a8', 'ATD745ac4d56e4b7',
4 's354321@student.unklab.ac.id', 'Artificial Intelligence',
5 'semmy@unklab.ac.id', '1,239484', '124,348583', '10', '10:15:49', 'P', '', '2023-04-13 22:54:33'), ('CLASS643ac4d56e4a8',
6 'ATD745ac4d56e4b7',
7 's154321@student.unklab.ac.id', 'Artificial Intelligence', 'semmy@unklab.ac.id', '1,239484', '124,348583', '16', '10:00:49',
8 'P', '', '2023-04-13
9 '22:54:33'), ('CLASS643ac4d56e4a8', 'ATD745ac4d56e4b7', 's254321@student.unklab.ac.id', 'Artificial Intelligence',
10 'semmy@unklab.ac.id', '1,239484', '124,348583', '12',
11 '10:05:49', 'P', '', '2023-04-13 22:54:33'), ('CLASS643ac4d56e4a8', 'ATD745ac4d56e4b7', 's354321@student.unklab.ac.id',
12 'Artificial Intelligence', 'semmy@unklab.ac.id',
13 '1,239484', '124,348583', '20', '10:08:49', 'P', '', '2023-04-13 22:54:33'), ('CLASS643ac4d56e4a8', 'ATD745ac4d56e4b7',
14 's454321@student.unklab.ac.id', 'Artificial
15 Intelligence', 'semmy@unklab.ac.id', '1,239484', '124,348583', '15', '10:20:49', 'P', '', '2023-04-13 22:54:33'),
```

Hasil:

The screenshot shows the phpMyAdmin interface displaying the results of the SQL query. The table shows 12 rows of data. The columns are: id_class, id_attendance, email_student, name_subject, email_lecturer, student_lat, student_long, distance, time_take_attendance, status, note, and created_at.

id_class	id_attendance	email_student	name_subject	email_lecturer	student_lat	student_long	distance	time_take_attendance	status	note	created_at
CLASS643ac4d56e4a8	ATD745ac4d56e4b7	s354321@student.unklab.ac.id	Artificial Intelligence	semmy@unklab.ac.id	1	124	10	10:15:49.000000	P		2023-04-13 22:54:33
CLASS643ac4d56e4a8	ATD745ac4d56e4b7	s154321@student.unklab.ac.id	Artificial Intelligence	semmy@unklab.ac.id	1	124	16	10:00:49.000000	P		2023-04-13 22:54:33
CLASS643ac4d56e4a8	ATD745ac4d56e4b7	s254321@student.unklab.ac.id	Artificial Intelligence	semmy@unklab.ac.id	1	124	12	10:05:49.000000	P		2023-04-13 22:54:33
CLASS643ac4d56e4a8	ATD745ac4d56e4b7	s354321@student.unklab.ac.id	Artificial Intelligence	semmy@unklab.ac.id	1	124	20	10:08:49.000000	P		2023-04-13 22:54:33
CLASS643ac4d56e4a8	ATD745ac4d56e4b7	s454321@student.unklab.ac.id	Artificial Intelligence	semmy@unklab.ac.id	1	124	15	10:20:49.000000	P		2023-04-13 22:54:33
CLASS643ac4d56e4a8	ATD745ac4d56e4b7	s54321@student.unklab.ac.id	Artificial Intelligence	semmy@unklab.ac.id	1	124	6	10:30:49.000000	P		2023-04-13 22:54:33
CLASS643ac4d56e4a8	ATD745ac4d56e4b7	s64321@student.unklab.ac.id	Artificial Intelligence	semmy@unklab.ac.id	1	124	7	10:45:49.000000	P		2023-04-13 22:54:33
CLASS643ac4d56e4a8	ATD745ac4d56e4b7	s64321@student.unklab.ac.id	Artificial Intelligence	semmy@unklab.ac.id	1	124	8	10:27:49.000000	P		2023-04-13 22:54:33
CLASS64338975a476	ATTE64516fce98425	s154321@student.unklab.ac.id	Statistics and Probability	semmy@unklab.ac.id	0	0	0	00:00:00.000000	P	Hadir	2023-05-03 11:37:39
CLASS64338975a476	ATTE64516fce98425	s754321@student.unklab.ac.id	Statistics and Probability	semmy@unklab.ac.id	0	0	0	00:00:00.000000	L	Datang terlambat	2023-05-03 11:37:58
CLASS64338975a476	ATTE64516fce98425	mandala@gmail.com	Statistics and Probability	semmy@unklab.ac.id	0	0	0	00:00:00.000000	E	Sakit	2023-05-03 11:38:20
CLASS64489b7ce4de	ATTE64516fce98425	semmy@yahoo.com	Fundamental Apache PHP5	semmy@unklab.ac.id	0	0	0	00:00:00.000000	P		2023-05-03 11:55:46
CLASS64489b7ce4de	ATTE64516fce98425	putra@gmail.com	Fundamental Apache PHP5	semmy@unklab.ac.id	0	0	0	00:00:00.000000	E	Sakit	2023-05-03 11:55:54

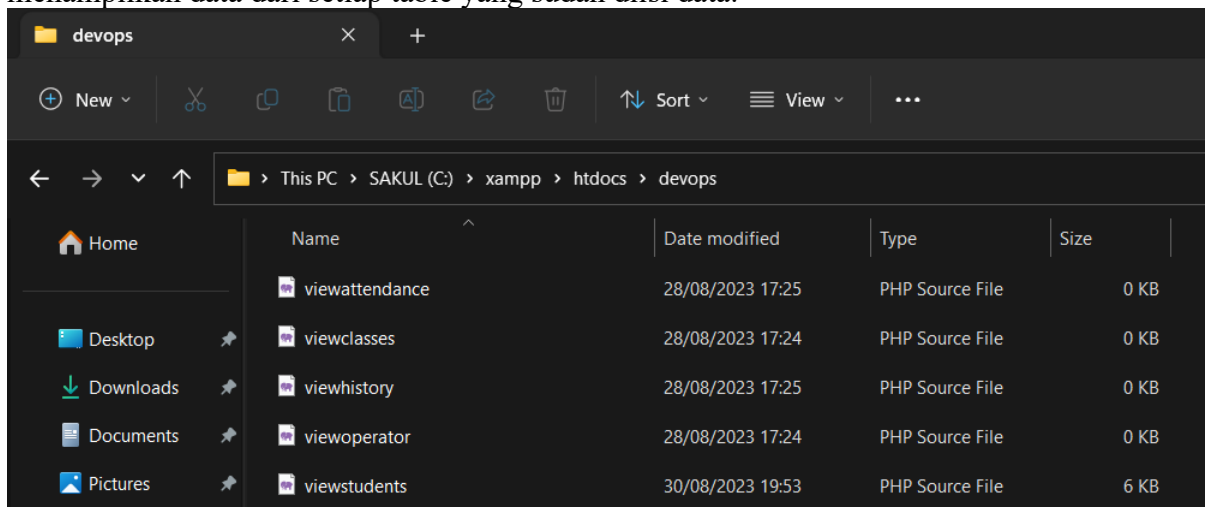
3 – Display Data in Browser (HTML, Bootstrap 5 and PHP)

Pertama-tama buatlah directory baru “devops” di dalam directory “htdocs”.

The screenshot shows a file explorer window with the path This PC > SAKUL (C:) > xampp > htdocs. The directory structure is as follows:

- htdocs
 - datadosen
 - devops

Setelah itu buat 5 files di dalam directory “devops” untuk nantinya kita akan menampilkan data dari setiap table yang sudah diisi data.

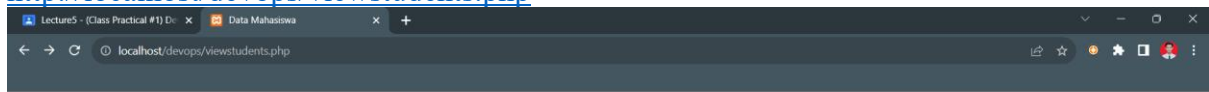


Tuliskan code berikut pada file “viewstudents.php”

```
File Edit Selection View Go Run Terminal Help
viewstudents.php
C: > xampp > htdocs > devops > viewstudents.php
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Data Mahasiswa</title>
5 <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css">
6 </head>
7 <body>
8 <div class="container">
9 <h1>Data Mahasiswa</h1>
10 <table class="table table-striped table-bordered table-hover">
11 <thead>
12 <tr>
13 <th class="text-center">Registration Number</th>
14 <th class="text-center">NIM Number</th>
15 <th class="text-center">Email</th>
16 <th class="text-center">Full Name</th>
17 <th class="text-center">Created At</th>
18 <th class="text-center">Updated At</th>
19 </tr>
20 </thead>
21 <tbody>
22
23 <?php
24 $conn = mysqli_connect ('localhost', 'root', '12345', 'db_unklab');
25
26 if (!$conn) {
27     die("Koneksi gagal: " . mysqli_connect_error());
28 }
29
30 $sql = "SELECT * FROM tbl_students";
31 $result = mysqli_query($conn, $sql);
32
33 if (mysqli_num_rows($result) > 0) {
34     while ($row = mysqli_fetch_assoc($result)) {
35         echo "<tr>";
36         echo "<td>" . $row['reg_number'] . "</td>";
37         echo "<td>" . $row['nim_number'] . "</td>";
38         echo "<td>" . $row['email'] . "</td>";
39         echo "<td>" . $row['fullname'] . "</td>";
40         echo "<td>" . $row['created_at'] . "</td>";
41         echo "<td>" . $row['updated_at'] . "</td>";
42         echo "</tr>";
43     }
44 } else {
45     echo "<tr><td colspan='6'>Tidak ada data mahasiswa.</td></tr>";
46 }
47
48 mysqli_close($conn);
49 >
50 </tbody>
51 </table>
52 </div>
53 </body>
54 </html>
```

Buka link berikut di browser kita untuk menampilkan Data Mahasiswa dari file “viewstudents.php”.

<http://localhost/devops/viewstudents.php>



Data Mahasiswa

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	Miehie Kawekiang 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 Ojomiso	2023-04-13 22:54:33	2023-04-13 22:54:33
123456789012	654321	s654321@student.unklab.ac.id	David Kawekiang	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

