



PHP MYSQL

Pengenalan PHP MySQL

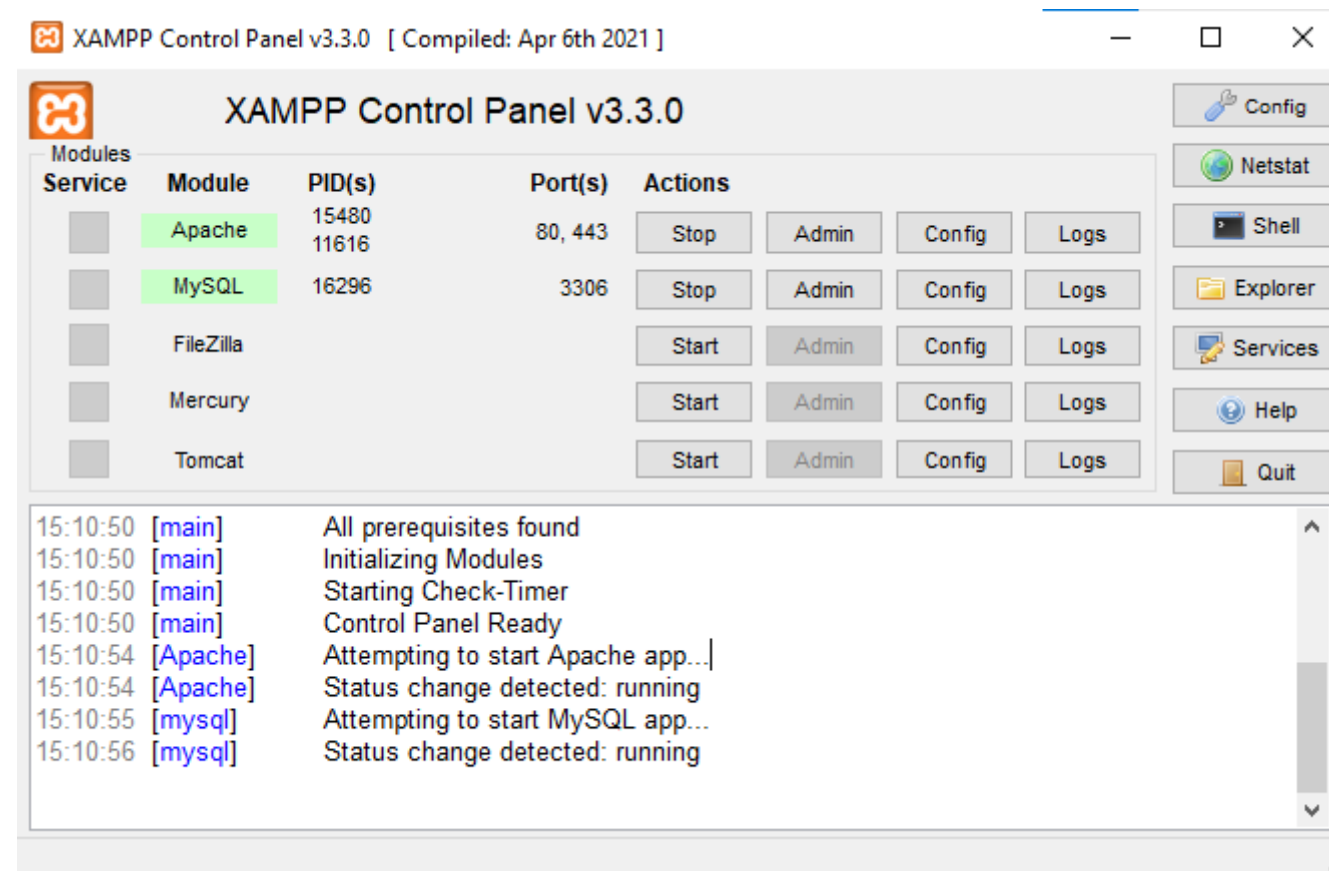
PHP dan MySQL adalah dua teknologi yang sering digunakan bersama dalam pengembangan aplikasi web. PHP (Hypertext Preprocessor) adalah bahasa pemrograman yang berjalan di server dan digunakan untuk membangun halaman web yang dinamis dan interaktif. Sedangkan MySQL adalah sebuah RDBMS atau sistem manajemen database relasional.

Dengan menggunakan PHP dan MySQL kita bisa membuat website yang dinamis dan juga bisa melakukan CRUD (Create, Read, Update, Delete).

Konfigurasi Awal

Untuk menghubungkan PHP dan MySQL silahkan ikuti Langkah dibawah:

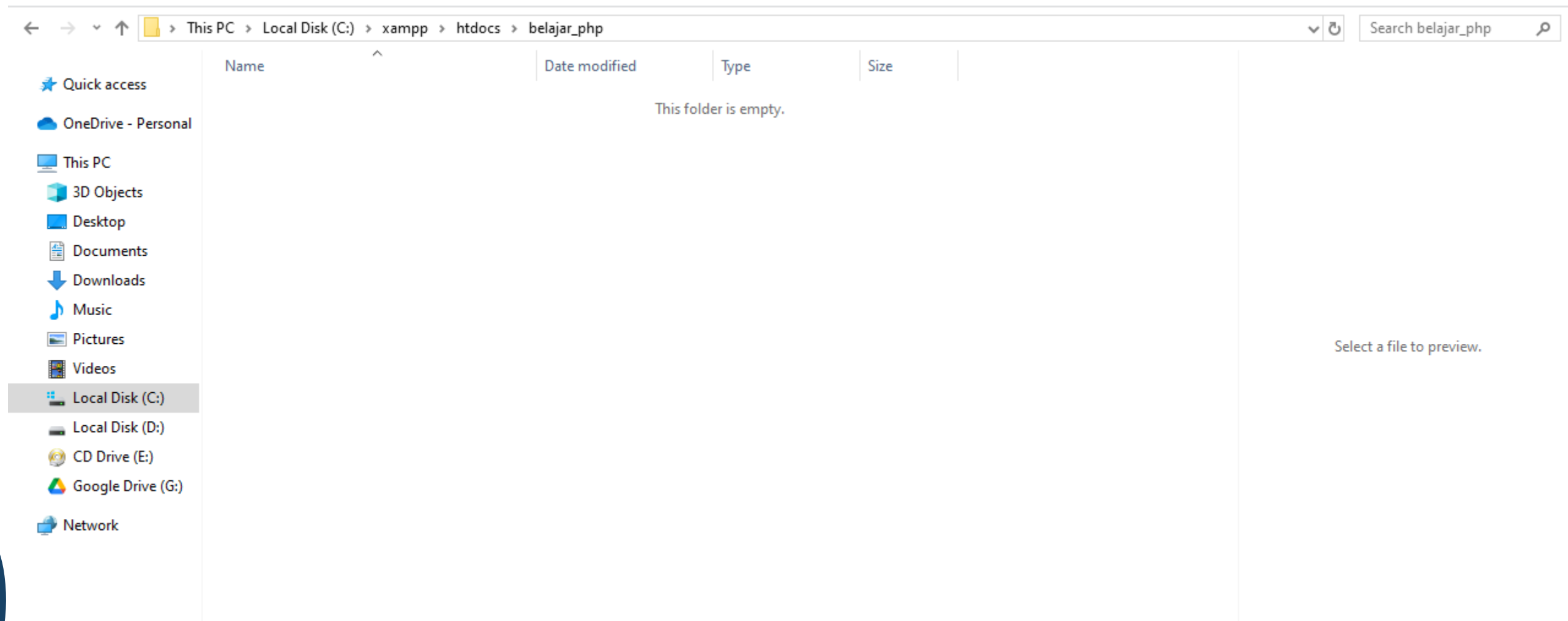
- Silahkan aktifkan XAMPP atau Laragon



Konfigurasi Awal

Untuk menghubungkan PHP dan MySQL silahkan ikuti Langkah dibawah:

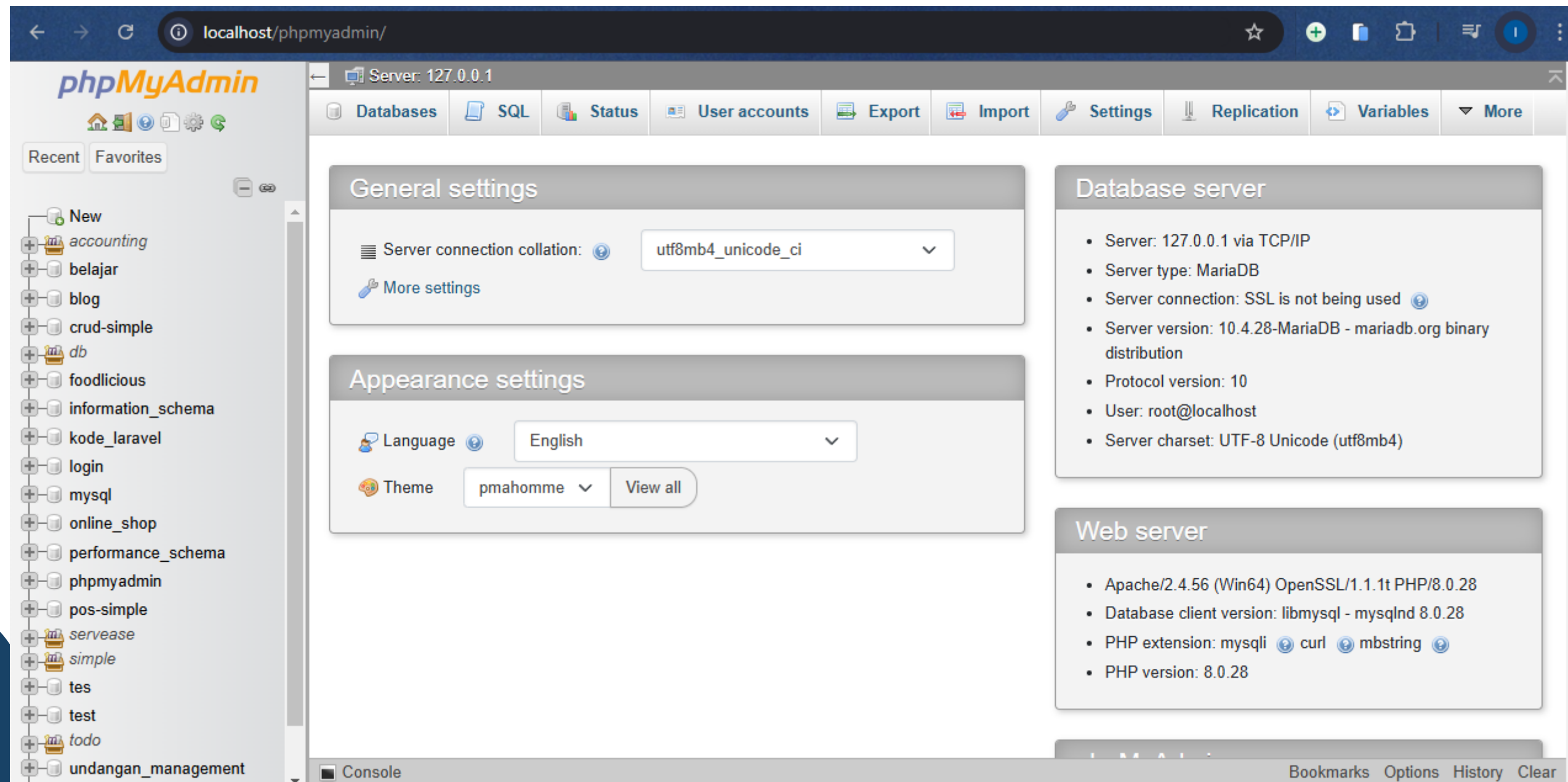
- Silahkan buat projek didalam folder `c:/xampp/htdocs/nama projek`



Konfigurasi Awal

Untuk menghubungkan PHP dan MySQL silahkan ikuti Langkah dibawah:

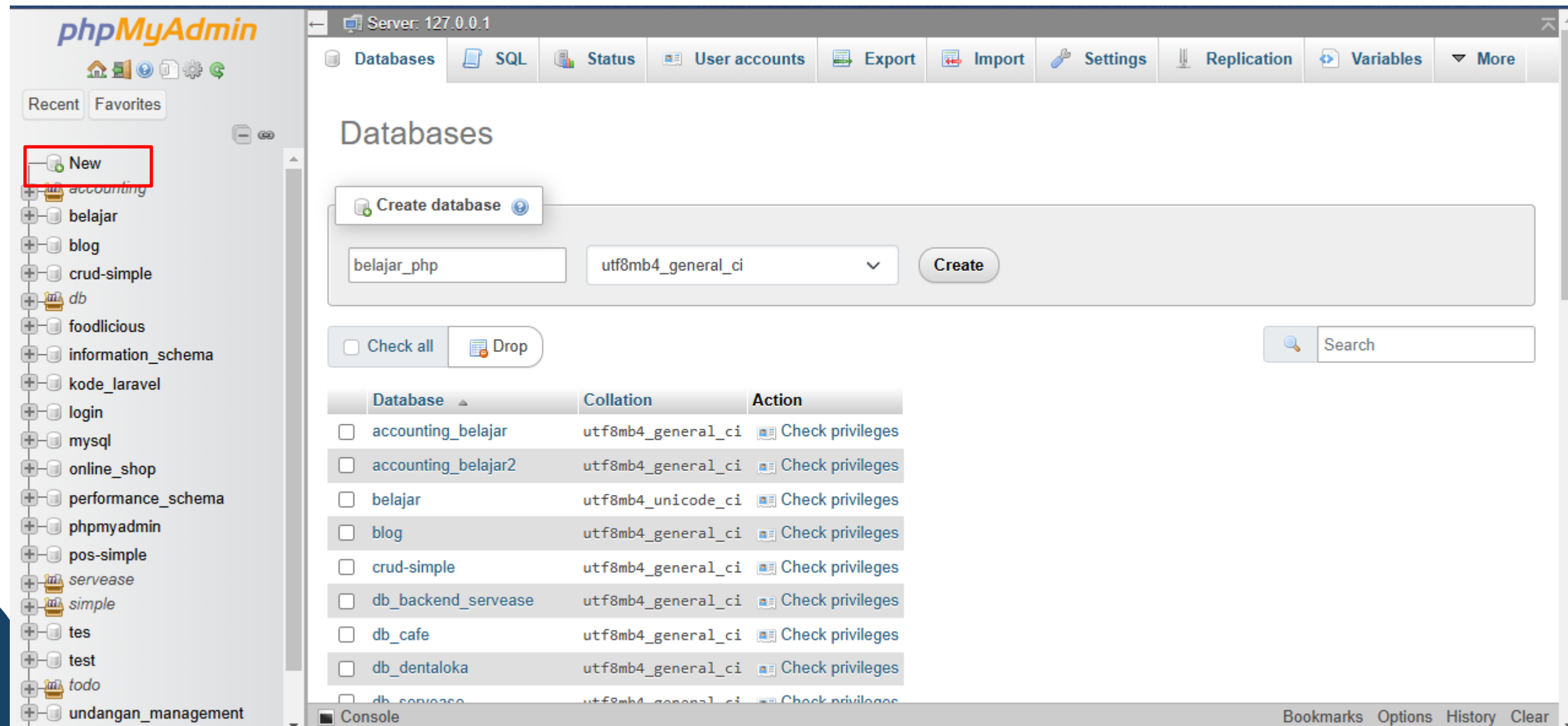
- Buka browser dan cari localhost/phpmyadmin



Konfigurasi Awal

Untuk menghubungkan PHP dan MySQL silahkan ikuti Langkah dibawah:

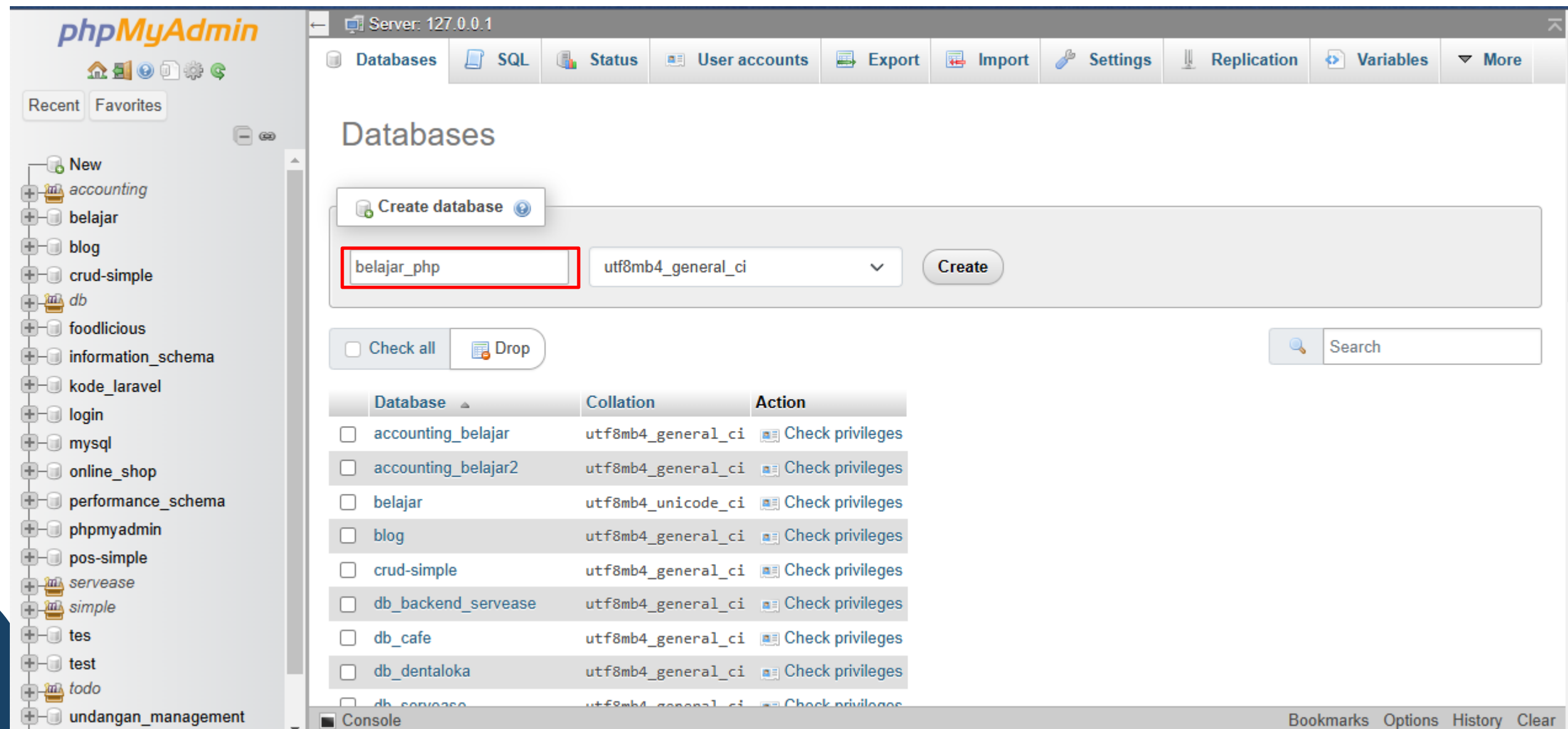
- Buat database baru dengan klik tombol New



Konfigurasi Awal

Untuk menghubungkan PHP dan MySQL silahkan ikuti Langkah dibawah:

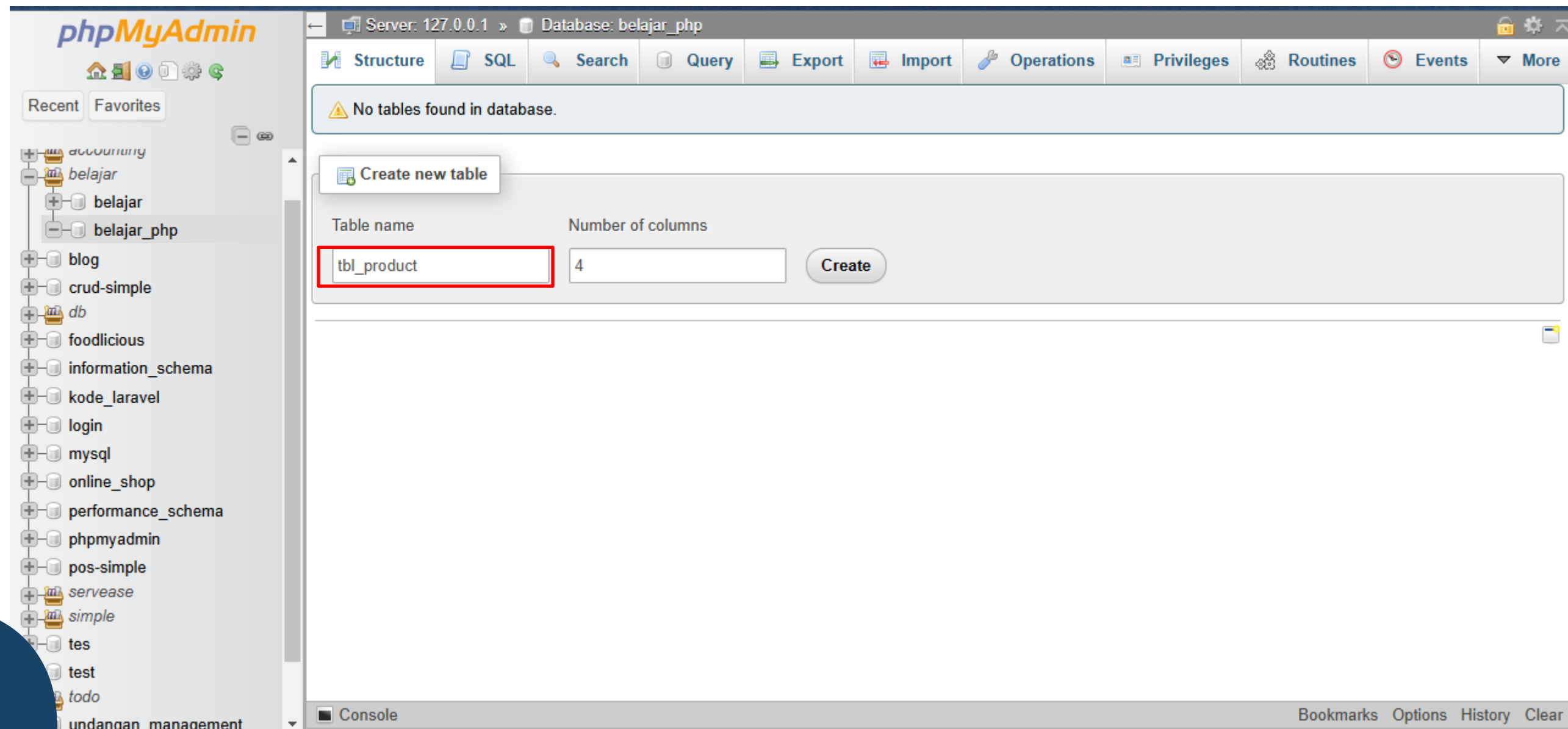
- Buat nama database baru, setelah itu klik create



Konfigurasi Awal

Untuk menghubungkan PHP dan MySQL silahkan ikuti Langkah dibawah:

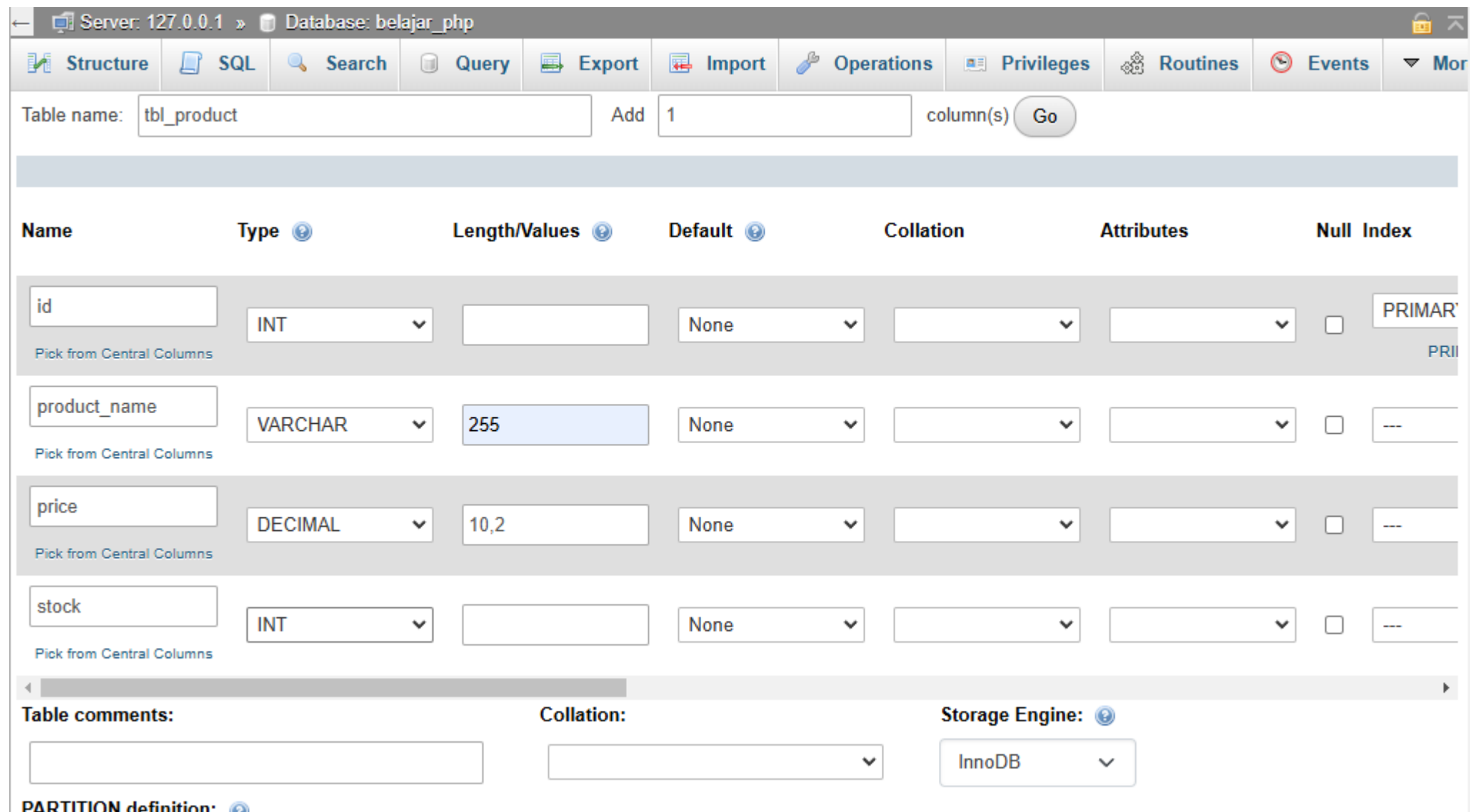
- Buat table baru, beri nama tbl_product, klik create



Konfigurasi Awal

Untuk menghubungkan PHP dan MySQL silahkan ikuti Langkah dibawah:

- Buat struktur table, ikuti seperti dibawah



The screenshot shows the MySQL Workbench 'Table Structure' window for a table named 'tbl_product' in the 'belajar_php' database. The window has a toolbar with options like Structure, SQL, Search, Query, Export, Import, Operations, Privileges, Routines, Events, and More. Below the toolbar, there's a section for 'Table name: tbl_product' and 'Add 1 column(s)'. The main area is a table with columns for Name, Type, Length/Values, Default, Collation, Attributes, Null, and Index. Four columns are defined: 'id' (INT, Primary Key), 'product_name' (VARCHAR(255)), 'price' (DECIMAL(10,2)), and 'stock' (INT). At the bottom, there are fields for 'Table comments:', 'Collation:', and 'Storage Engine: InnoDB'.

Name	Type	Length/Values	Default	Collation	Attributes	Null	Index
id	INT		None			<input type="checkbox"/>	PRIMARY
product_name	VARCHAR	255	None			<input type="checkbox"/>	---
price	DECIMAL	10,2	None			<input type="checkbox"/>	---
stock	INT		None			<input type="checkbox"/>	---

Table comments:

Collation:

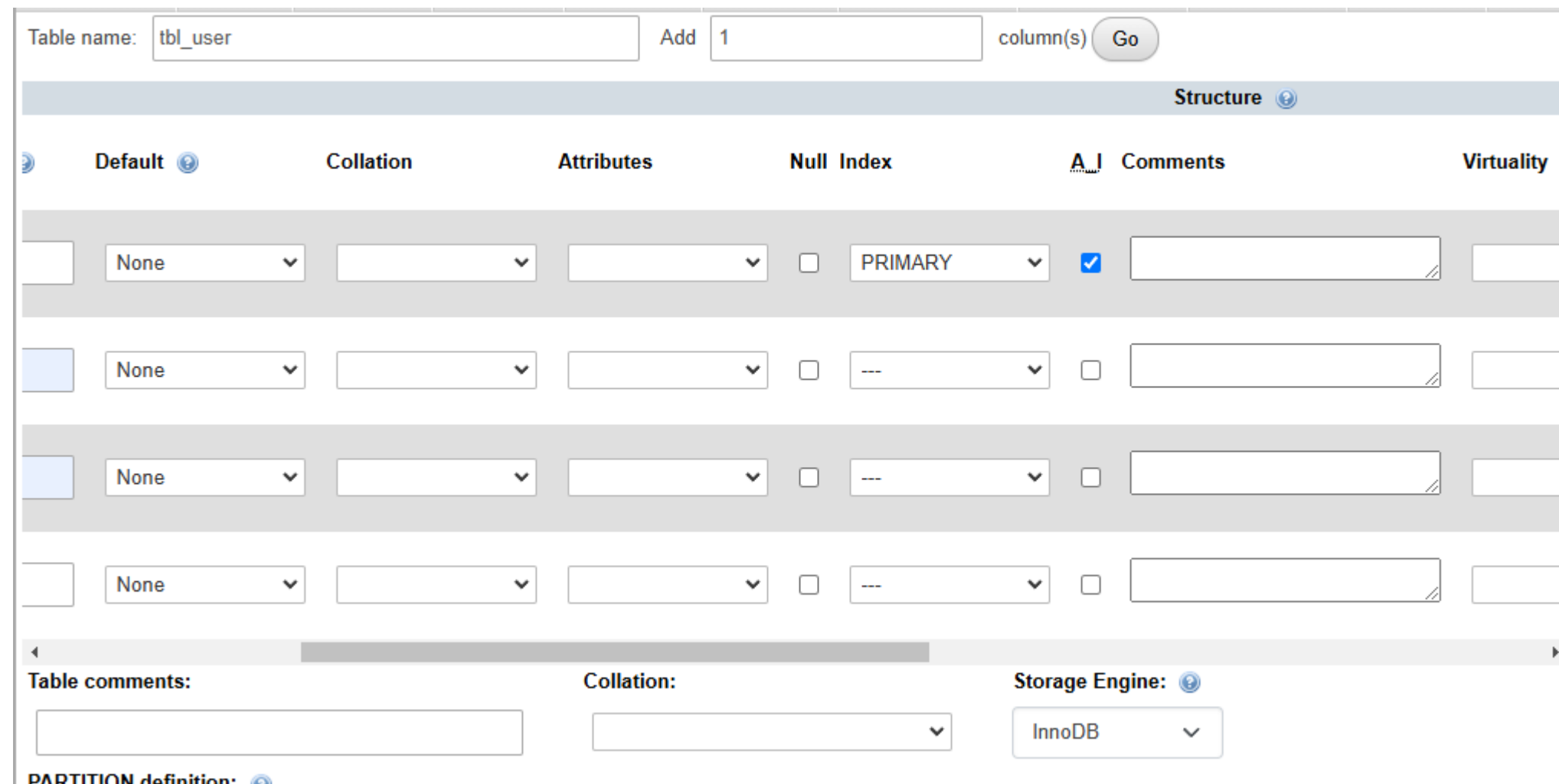
Storage Engine: InnoDB

PARTITION definition:

Konfigurasi Awal

Untuk menghubungkan PHP dan MySQL silahkan ikuti Langkah dibawah:

- Setting id menjadi primary key



The screenshot shows the MySQL table structure configuration interface for a table named 'tbl_user'. At the top, there is a 'Table name:' field with 'tbl_user' entered, followed by an 'Add' button, a '1' in a text box, and a 'column(s)' label with a 'Go' button. Below this is a tabbed interface with 'Structure' selected. The table structure is displayed in a table with columns: Default, Collation, Attributes, Null, Index, A.I, Comments, and Virtuality. The first row is highlighted in light blue and has the following values: Default: None, Collation: (empty), Attributes: (empty), Null: (empty checkbox), Index: PRIMARY, A.I: (checked checkbox), Comments: (empty), and Virtuality: (empty). The second and third rows are also highlighted in light blue and have the following values: Default: None, Collation: (empty), Attributes: (empty), Null: (empty checkbox), Index: ---, A.I: (empty checkbox), Comments: (empty), and Virtuality: (empty). The fourth row is not highlighted and has the following values: Default: None, Collation: (empty), Attributes: (empty), Null: (empty checkbox), Index: ---, A.I: (empty checkbox), Comments: (empty), and Virtuality: (empty). Below the table structure, there are three fields: 'Table comments:' with an empty text box, 'Collation:' with a dropdown menu, and 'Storage Engine:' with a dropdown menu showing 'InnoDB'. At the bottom, there is a 'PARTITION definition:' label with a help icon.

	Default	Collation	Attributes	Null	Index	A.I	Comments	Virtuality
	None			<input type="checkbox"/>	PRIMARY	<input checked="" type="checkbox"/>		
	None			<input type="checkbox"/>	---	<input type="checkbox"/>		
	None			<input type="checkbox"/>	---	<input type="checkbox"/>		
	None			<input type="checkbox"/>	---	<input type="checkbox"/>		

Table comments:

Collation:

Storage Engine:

PARTITION definition: [?](#)

Konfigurasi Awal

Untuk menghubungkan PHP dan MySQL silahkan ikuti Langkah dibawah:

- Lalu tekan tombol save

The screenshot shows the MySQL Workbench interface for configuring a new table named 'tbl_product'. The window title is 'Server: 127.0.0.1 » Database: belajar_php'. The 'Table name' field contains 'tbl_product', and the 'Add' button is next to it. Below the table name, there are three columns being defined:

Column Name	Data Type	Length	Collation	Character Set	Index	Other
product_name	VARCHAR	255	None			
price	DECIMAL	10,2	None			
stock	INT		None			

Below the columns, there are fields for 'Table comments:', 'Collation:', and 'Storage Engine:'. The 'Storage Engine' is set to 'InnoDB'. At the bottom, there are buttons for 'Preview SQL' and 'Save'. The bottom status bar shows 'Console', 'Bookmarks', 'Options', 'History', and 'Clear'.

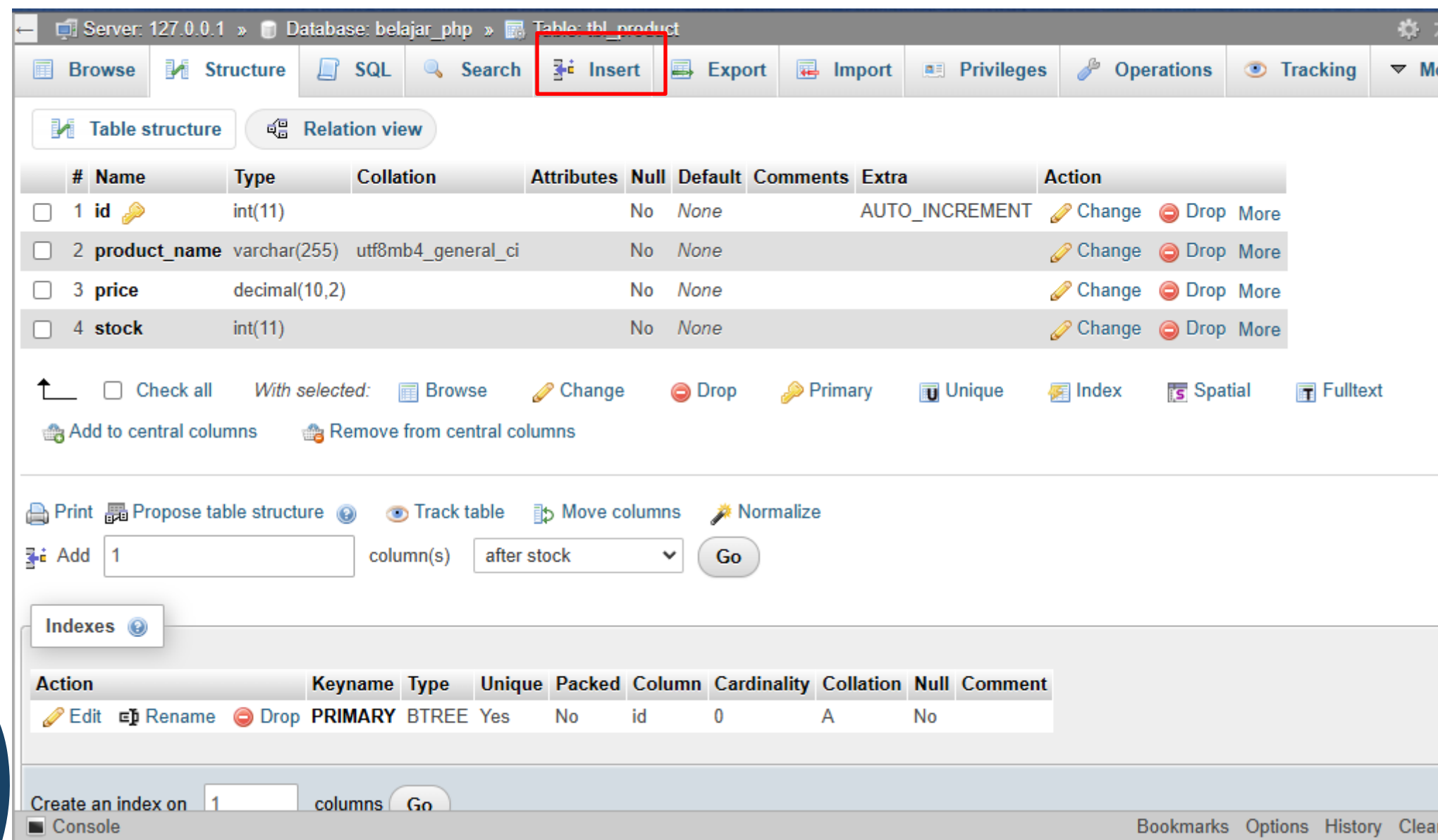


Untuk melakukan pengetesan, silahkan isi data
tbl_product terlebih dahulu

Konfigurasi Awal

Untuk menghubungkan PHP dan MySQL silahkan ikuti Langkah dibawah:

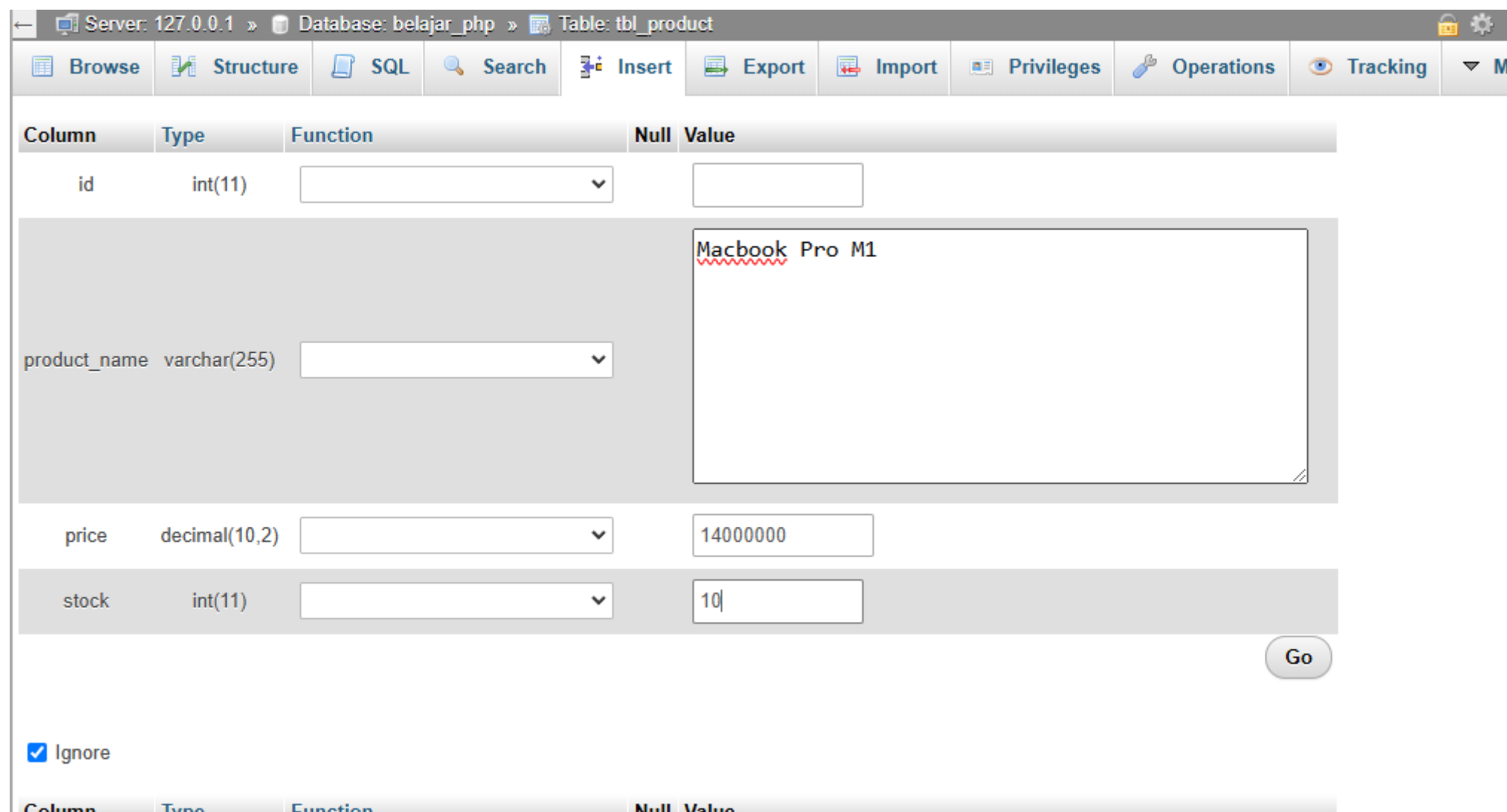
- Untuk memasukkan data baru silahkan klik menu insert



Konfigurasi Awal

Untuk menghubungkan PHP dan MySQL silahkan ikuti Langkah dibawah:

- Isi data sesuai contoh, untuk id akan otomatis terisi



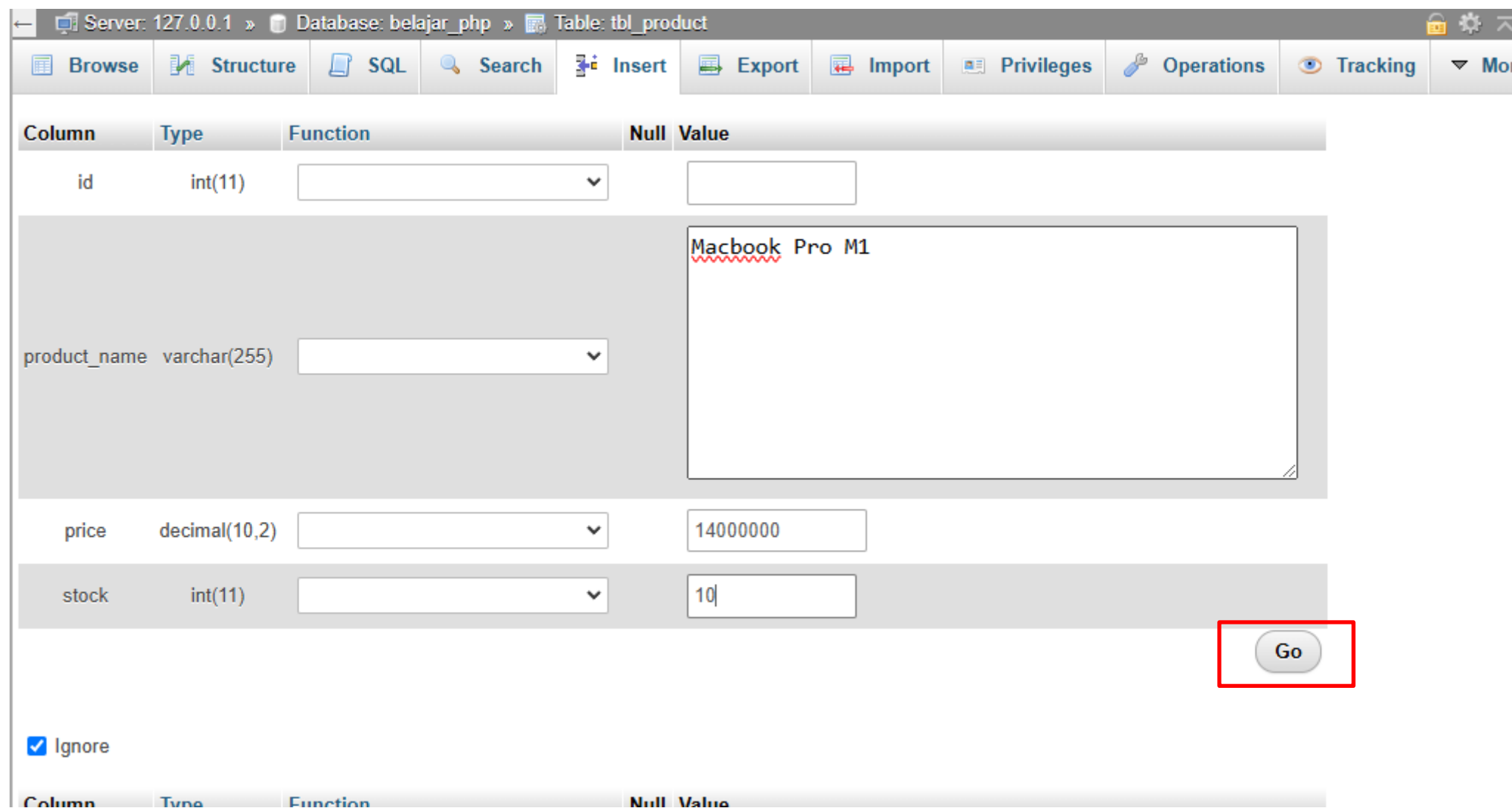
The screenshot shows a MySQL database management tool interface. The top bar indicates the server is 127.0.0.1, the database is 'belajar_php', and the table is 'tbl_product'. The interface includes tabs for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Tracking, and Monitoring. The 'Insert' tab is active, showing a form to insert data into the 'tbl_product' table. The form has columns for 'id', 'product_name', 'price', and 'stock'. The 'id' column is of type 'int(11)' and has a dropdown menu. The 'product_name' column is of type 'varchar(255)' and has a text input field. The 'price' column is of type 'decimal(10,2)' and has a text input field with the value '14000000'. The 'stock' column is of type 'int(11)' and has a text input field with the value '10'. A 'Go' button is located at the bottom right of the form. Below the form, there is a checkbox labeled 'Ignore' which is checked.

Column	Type	Function	Null	Value
id	int(11)			
product_name	varchar(255)			Macbook Pro M1
price	decimal(10,2)			14000000
stock	int(11)			10

Konfigurasi Awal

Untuk menghubungkan PHP dan MySQL silahkan ikuti Langkah dibawah:

- Klik tombol go untuk menyimpan



The screenshot shows a MySQL database management interface. The top bar indicates the server is 127.0.0.1, the database is 'belajar_php', and the table is 'tbl_product'. The interface includes tabs for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Tracking, and More. Below the tabs, there is a table structure view with columns: Column, Type, Function, Null, and Value. The table has four columns: id (int(11)), product_name (varchar(255)), price (decimal(10,2)), and stock (int(11)). The 'product_name' column is currently selected, and its value is 'Macbook Pro M1'. The 'price' column has a value of '14000000', and the 'stock' column has a value of '10'. A 'Go' button is highlighted with a red box at the bottom right of the form. At the bottom left, there is a checkbox labeled 'Ignore' which is checked.

Column	Type	Function	Null	Value
id	int(11)			
product_name	varchar(255)			Macbook Pro M1
price	decimal(10,2)			14000000
stock	int(11)			10

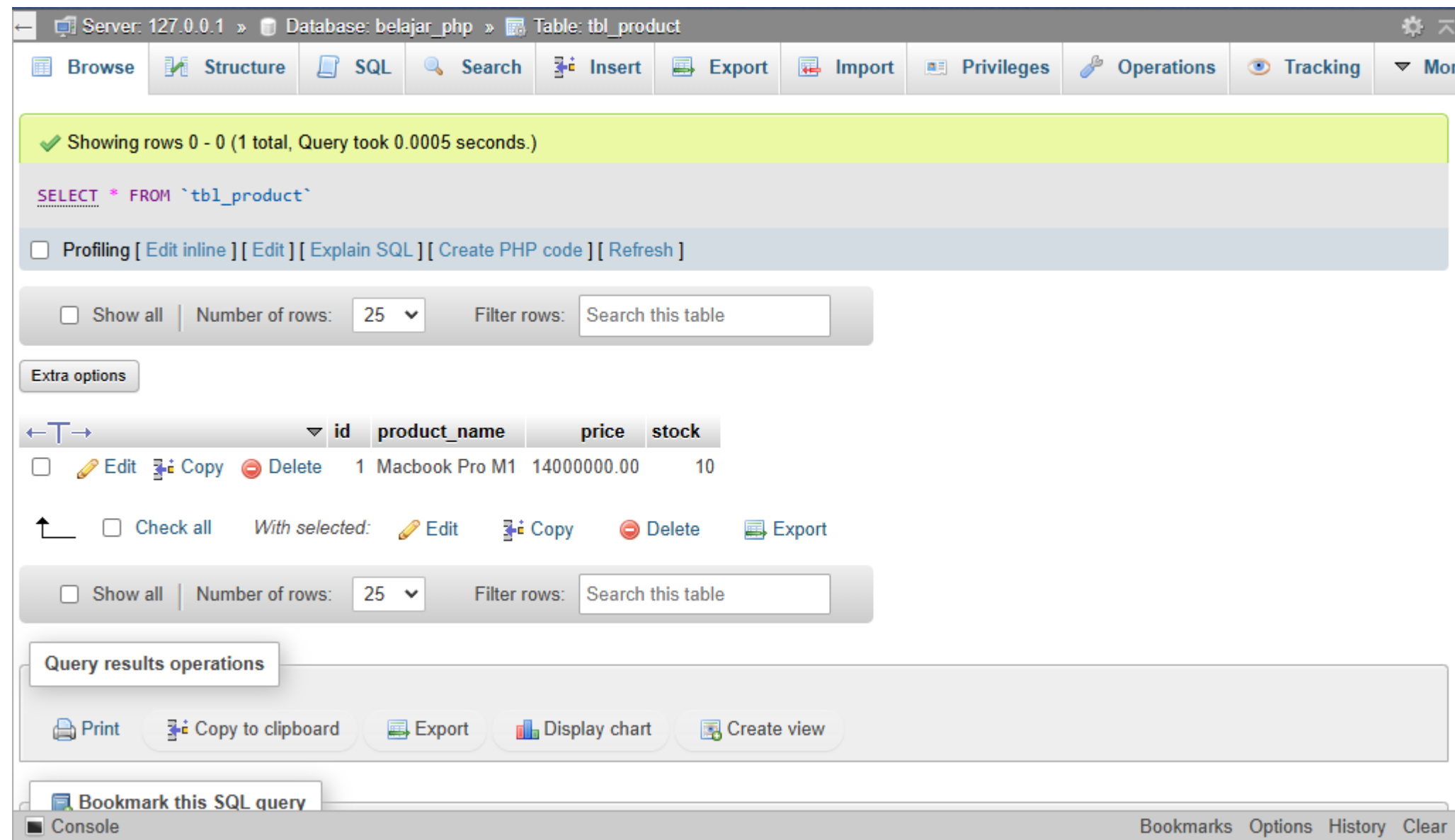
☒ Ignore

Go

Konfigurasi Awal

Untuk menghubungkan PHP dan MySQL silahkan ikuti Langkah dibawah:

- Maka akan bertambah satu data

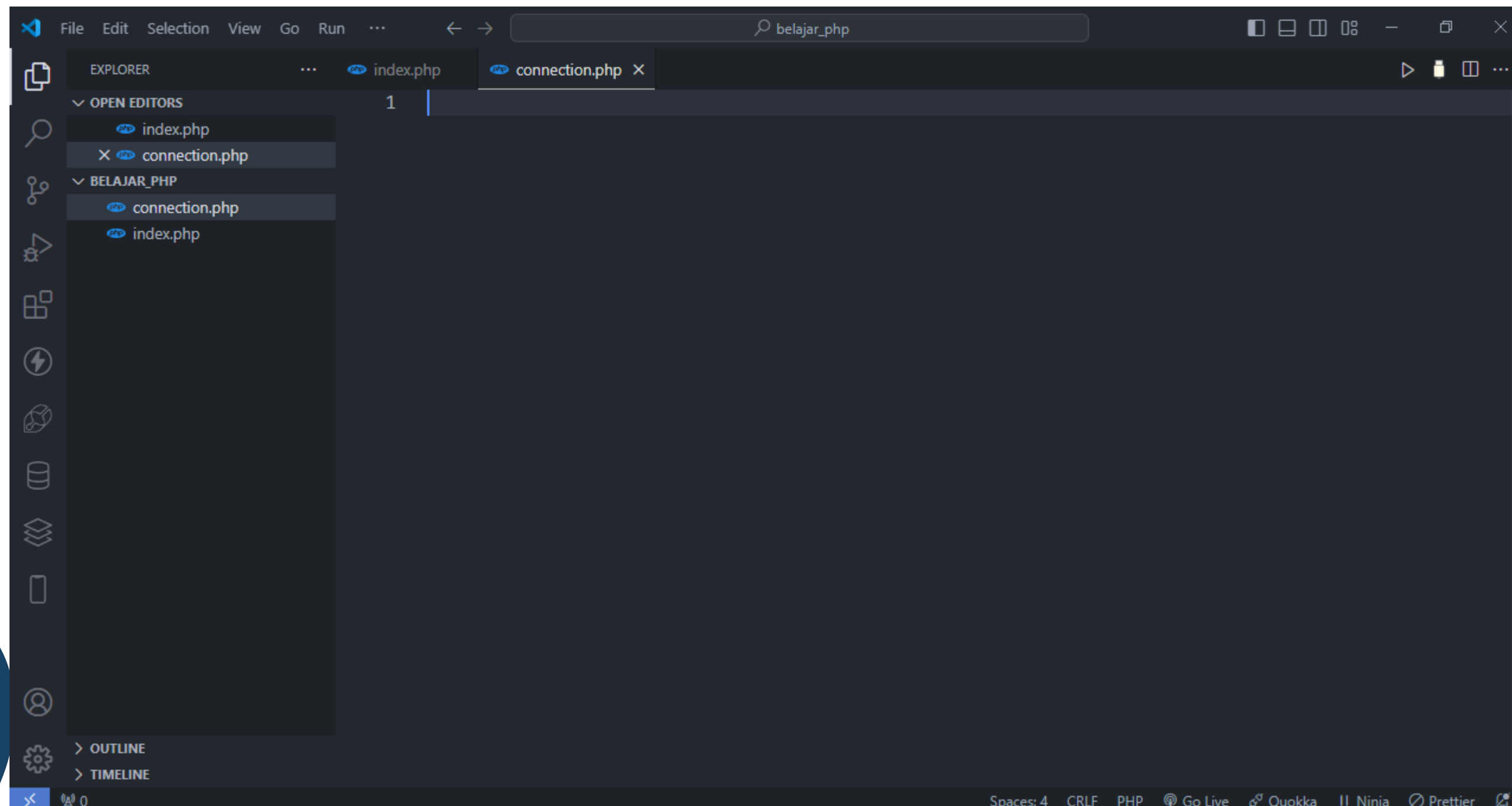


Menghubungkan PHP dengan MySQL

Konfigurasi Awal

Untuk menghubungkan PHP dan MySQL silahkan ikuti Langkah dibawah:

- Buat file baru index.php dan connection.php



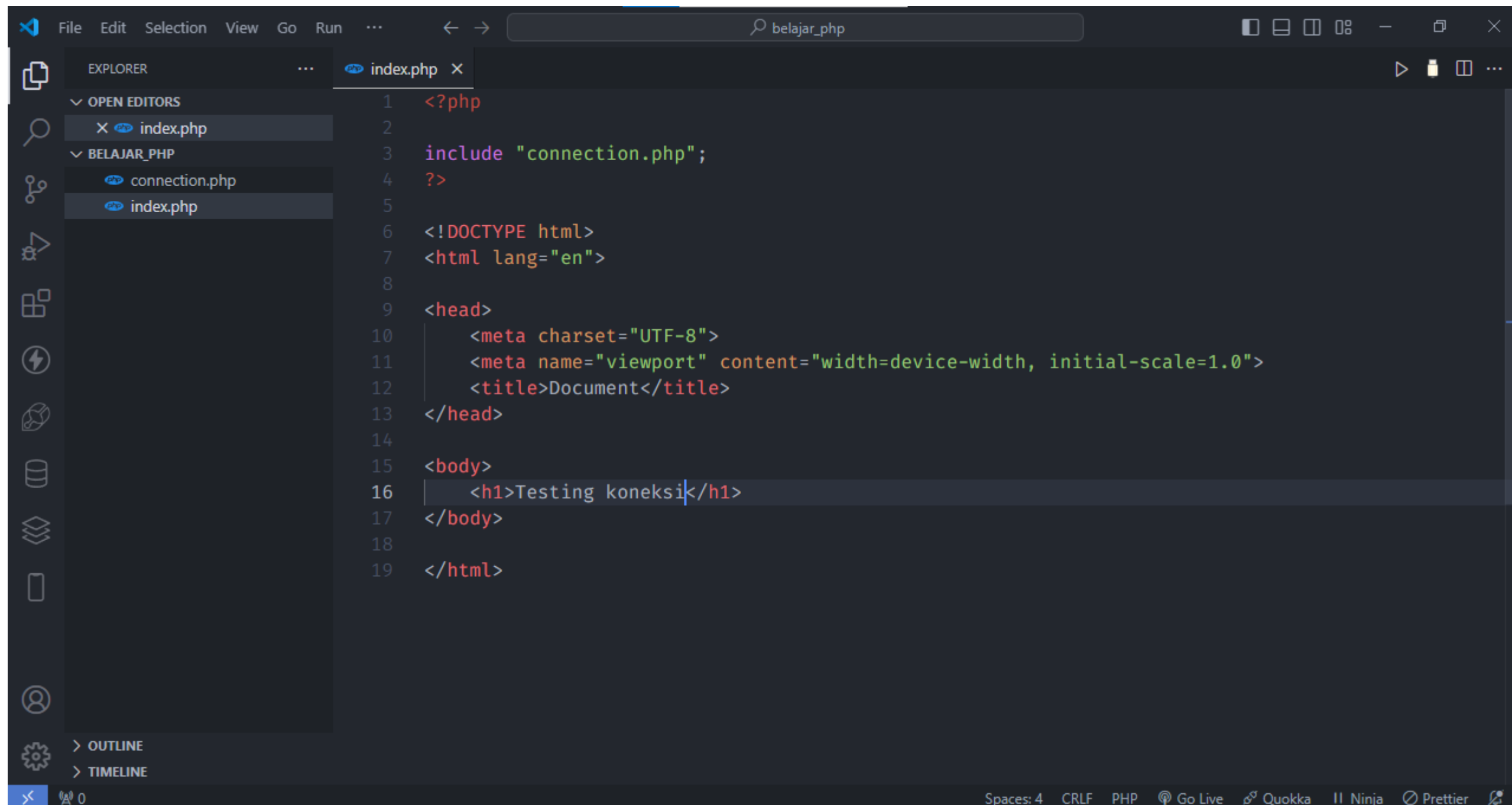
Konfigurasi Awal

- Pada file connection.php isi sesuai dibawah

```
connection.php x index.php
1  <?php
2  // Konfigurasi koneksi database
3  $host = "localhost"; // Nama host, biasanya localhost
4  $user = "root";      // Nama pengguna database
5  $password = "";      // Password pengguna database
6  $database = "belajar_php"; // Nama database yang telah dibuat sebelumnya
7
8  // Membuat koneksi
9  $conn = new mysqli($host, $user, $password, $database);
10
11 // Memeriksa koneksi
12 if ($conn->connect_error) {
13     die("Koneksi gagal: " . $conn->connect_error);
14 }
15
```

Konfigurasi Awal

- Pada file index.php silahkan import atau include koneksi yang telah dibuat, serta buat struktur html

A screenshot of a code editor interface, likely Visual Studio Code, showing the initial configuration of a file named index.php. The Explorer panel on the left shows the project structure with 'index.php' selected. The main editor area displays the following PHP code:

```
1 <?php
2
3 include "connection.php";
4 ?>
5
6 <!DOCTYPE html>
7 <html lang="en">
8
9 <head>
10     <meta charset="UTF-8">
11     <meta name="viewport" content="width=device-width, initial-scale=1.0">
12     <title>Document</title>
13 </head>
14
15 <body>
16     <h1>Testing koneksi</h1>
17 </body>
18
19 </html>
```

The status bar at the bottom indicates 'Spaces: 4', 'CRLF', 'PHP', and various extensions like 'Go Live', 'Quokka', 'Ninja', and 'Prettier' are installed.

Pengecekan Koneksi

- Silahkan jalankan pada browser, jika berhasil maka akan muncul tag h1 yang sudah dibuat

Testing koneksi

Pengecekan Koneksi

- Sedangkan jika gagal maka akan muncul error

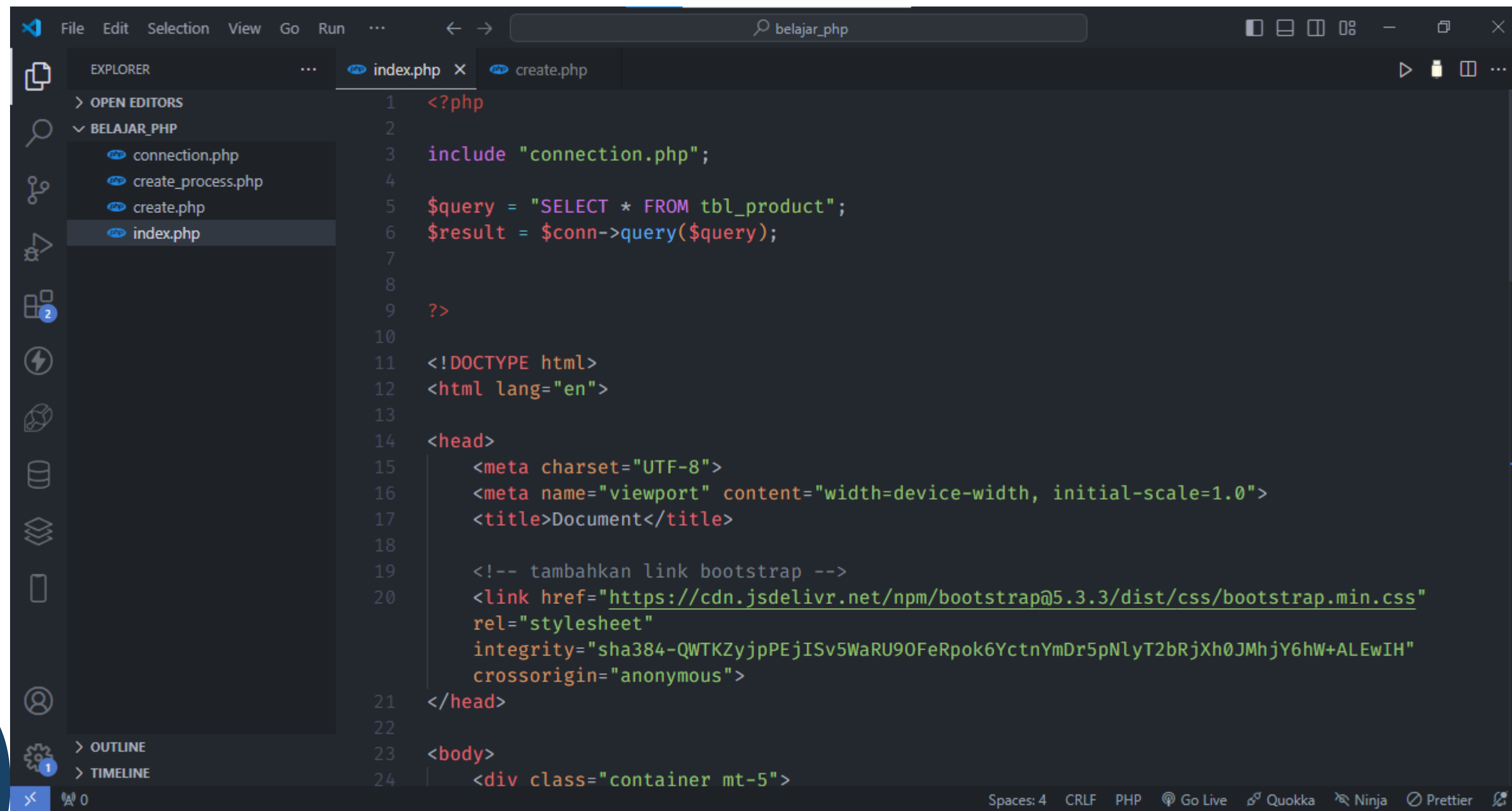
Warning: mysqli::__construct(): (HY000/1049): Unknown database 'belajar_php' in C:\xampp\htdocs\belajar_php\connection.php on line 9
Koneksi gagal: Unknown database 'belajar_php'

```
index.php  connection.php X
1  <?php
2  // Konfigurasi koneksi database
3  $host = "localhost"; // Nama host, biasanya localhost
4  $user = "root";      // Nama pengguna database
5  $password = "";      // Password pengguna database
6  $database = "belajar_php"; // Nama database yang telah dibuat sebelumnya
7
8  // Membuat koneksi
9  $conn = new mysqli($host, $user, $password, $database);
10
11 // Memeriksa koneksi
12 if ($conn->connect_error) {
13     die("Koneksi gagal: " . $conn->connect_error);
14 }
15
```

Error ini muncul karena saya mengubah nama database menjadi **belajar_php**

Menampilkan Data

- Untuk menampilkan data kita bisa menggunakan query `SELECT * FROM nama table`



```
1 <?php
2
3 include "connection.php";
4
5 $query = "SELECT * FROM tbl_product";
6 $result = $conn->query($query);
7
8
9 ?>
10
11 <!DOCTYPE html>
12 <html lang="en">
13
14 <head>
15     <meta charset="UTF-8">
16     <meta name="viewport" content="width=device-width, initial-scale=1.0">
17     <title>Document</title>
18
19     <!-- tambahkan link bootstrap -->
20     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
21           rel="stylesheet"
22           integrity="sha384-QWTKZyjpPEjISv5WaRU90FeRpok6YctnYmDr5pNlyT2bRjXh0JMhY6hW+ALEwIH"
23           crossorigin="anonymous">
24 </head>
25
26 <body>
27     <div class="container mt-5">
```

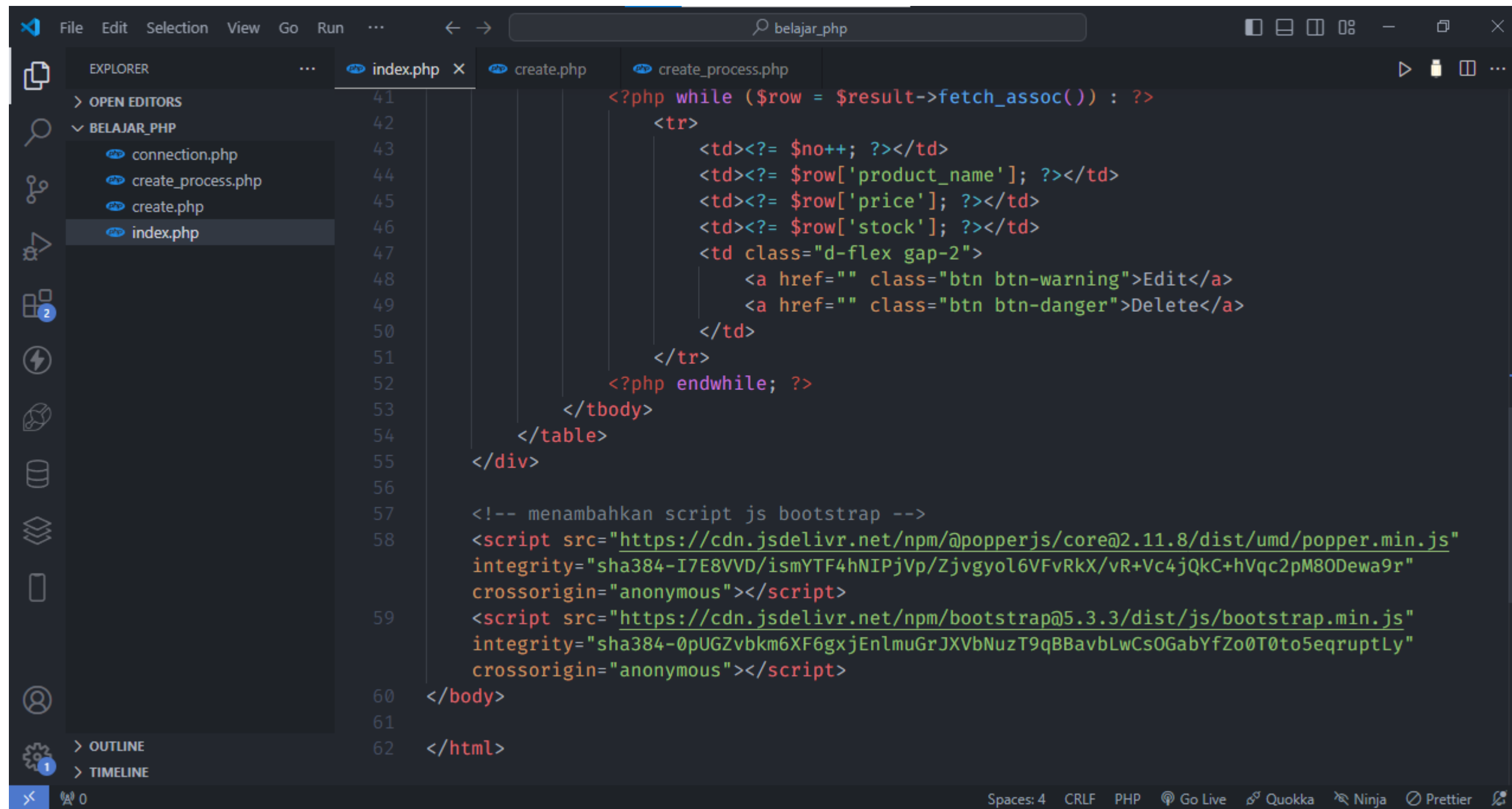
Menampilkan Data

- Untuk menampilkan data kita bisa menggunakan query `SELECT * FROM nama table`

```
index.php x create.php create_process.php
21 </head>
22
23 <body>
24   <div class="container mt-5">
25     <div class="d-flex align-items-center justify-content-between">
26       <h2>Data Product</h2>
27       <a href="create.php" class="btn btn-primary">Tambah Data</a>
28     </div>
29     <table class="table table-bordered mt-3">
30       <thead class="table-dark">
31         <tr>
32           <th>No.</th>
33           <th>Nama Produk</th>
34           <th>Harga</th>
35           <th>Stok</th>
36           <th>#</th>
37         </tr>
38       </thead>
39       <tbody>
40         <?php $no = 1; ?>
41         <?php while ($row = $result->fetch_assoc()) : ?>
42           <tr>
43             <td><?= $no++; ?></td>
44             <td><?= $row['product_name']; ?></td>
45             <td><?= $row['price']; ?></td>
46             <td><?= $row['stock']; ?></td>
47             <td class="d-flex gap-2">
```

Menampilkan Data

- Untuk menampilkan data kita bisa menggunakan query `SELECT * FROM nama table`



```
File Edit Selection View Go Run ... belajar_php
EXPLORER
  > OPEN EDITORS
  > BELAJAR_PHP
    connection.php
    create_process.php
    create.php
    index.php
  > OUTLINE
  > TIMELINE

index.php
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62

<?php while ($row = $result->fetch_assoc()) : ?>
    <tr>
        <td><?= $no++; ?></td>
        <td><?= $row['product_name']; ?></td>
        <td><?= $row['price']; ?></td>
        <td><?= $row['stock']; ?></td>
        <td class="d-flex gap-2">
            <a href="" class="btn btn-warning">Edit</a>
            <a href="" class="btn btn-danger">Delete</a>
        </td>
    </tr>
<?php endwhile; ?>
</tbody>
</table>
</div>

<!-- menambahkan script js bootstrap -->
<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.8/dist/umd/popper.min.js"
integrity="sha384-I7E8VVD/ismYTF4hNIPjVp/Zjvgyol6VFvRkX/vR+Vc4jQkC+hVqc2pM80Dewa9r"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.min.js"
integrity="sha384-0pUGZvbkm6XF6gxjEnlmuGrJXVbNuzT9qBBavbLwCsOGabYfZo0T0to5eqruptLy"
crossorigin="anonymous"></script>
</body>
</html>
```

Menampilkan Data

- Maka hasilnya akan seperti dibawah



The screenshot shows a web browser window with the address bar displaying `localhost/web_dc/pertemuan_11/belajar_php/index.php`. The page content includes a heading "Data Product" and a blue button labeled "Tambah Data". Below the heading is a table with the following data:

No.	Nama Produk	Harga	Stok	#
1	Macbook Pro M1	14000000.00	10	Edit Delete

Latihan

Silahkan tambahkan 2 data baru melalui menu insert di phpMyAdmin.

Terima Kasih
ありがとう