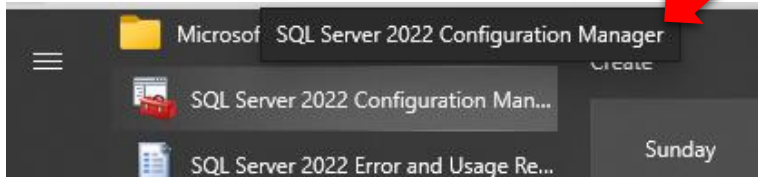
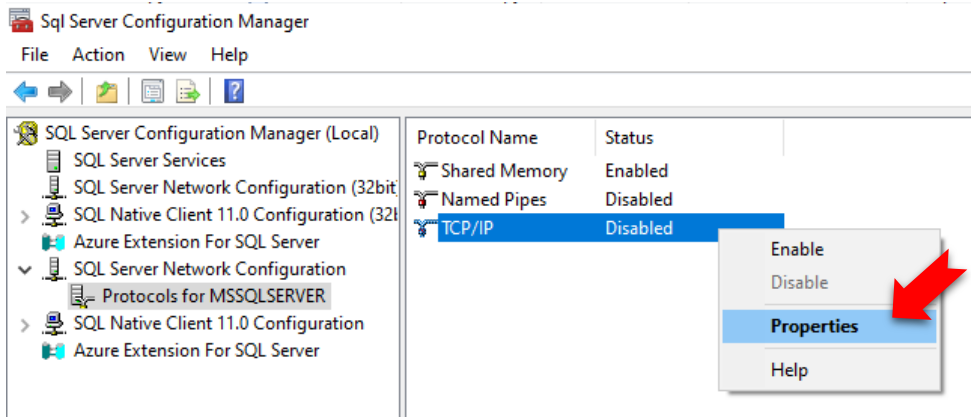


Laravel connect to MS SQL Server

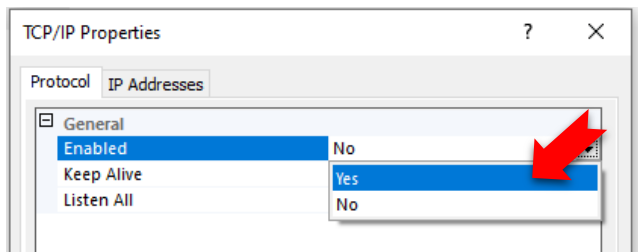
- 1) From Windows start button, run **SQL Server Configuration Manager**



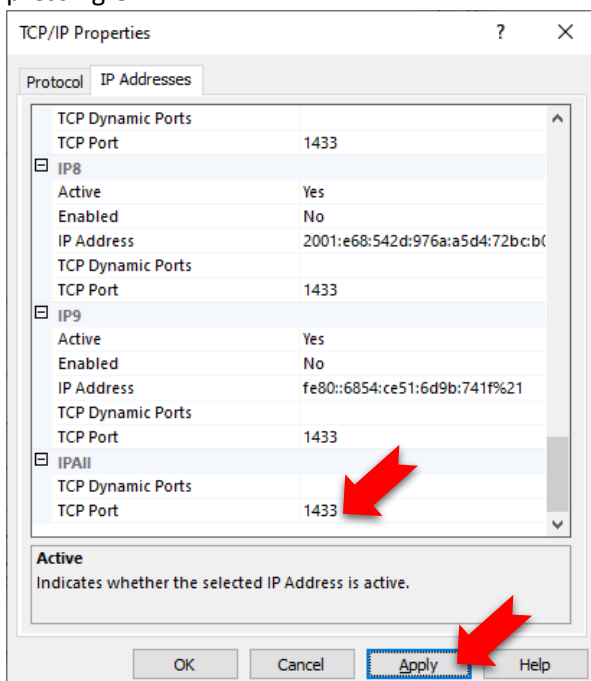
- 2) Protocols for the Data Engine service, open properties for TCP/IP



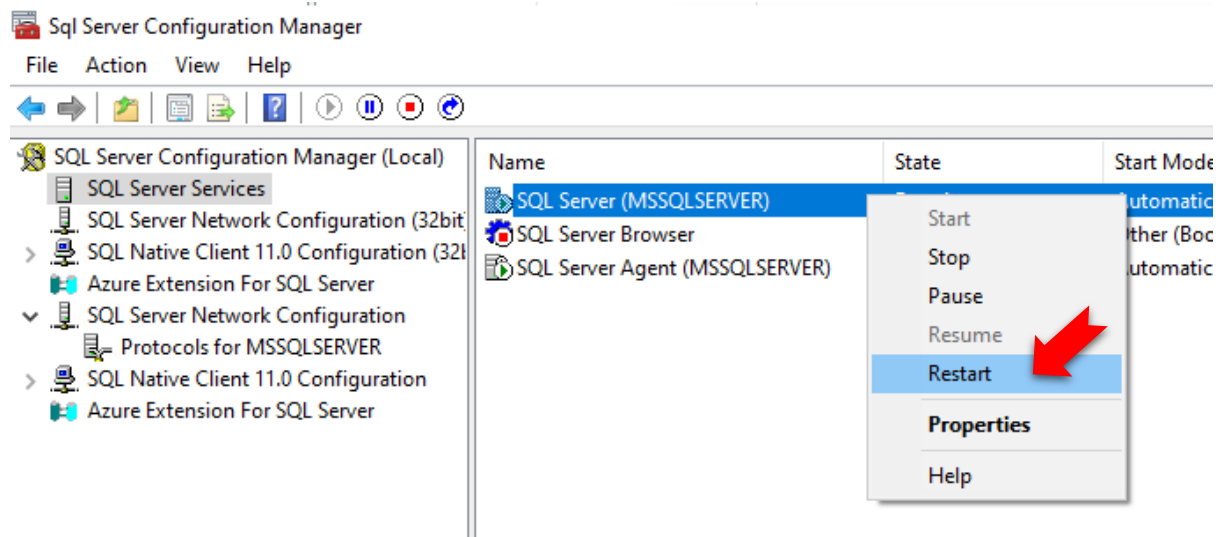
- 3) Select **Yes** to enable



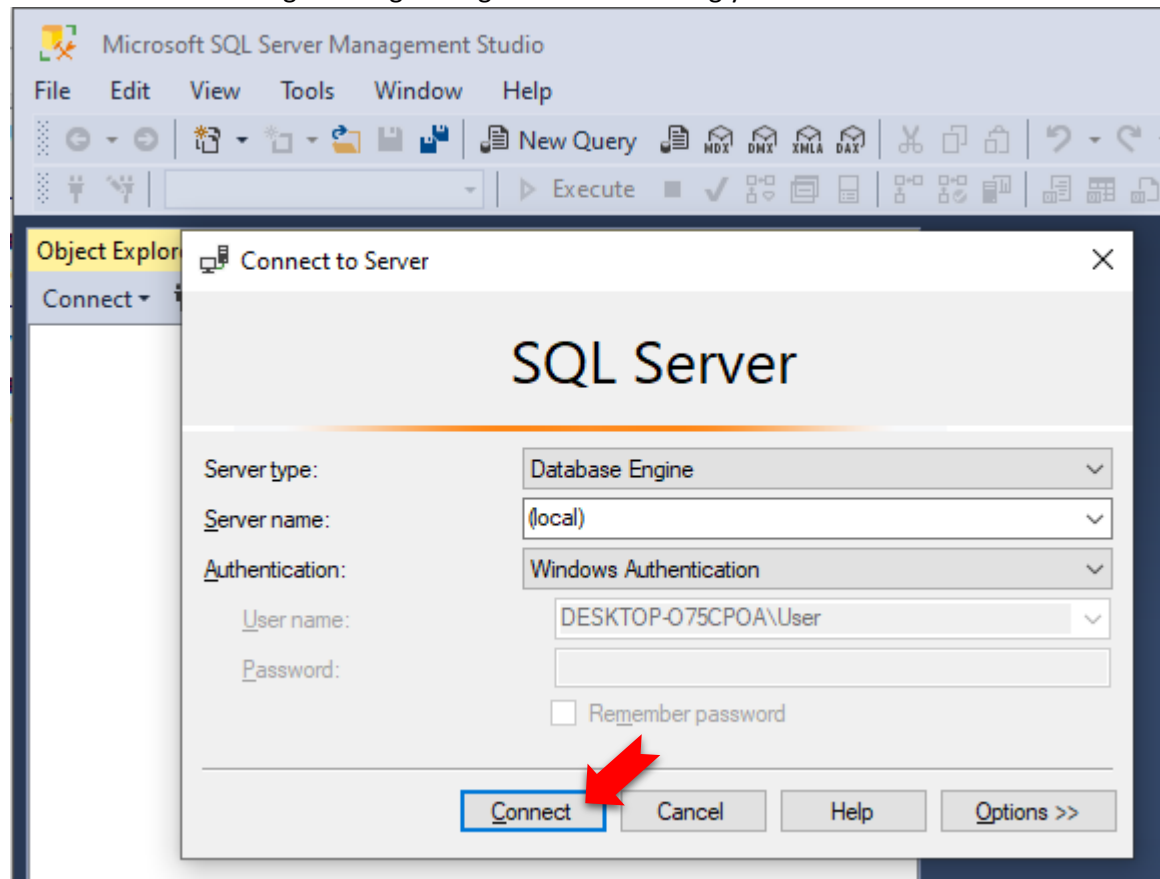
- 4) Under IP Address tab, IPALL, make sure that the TCP Port number is 1433. Confirm setting with **Apply**. After the message about need to restart the data engine, close the dialog box by pressing **OK**.



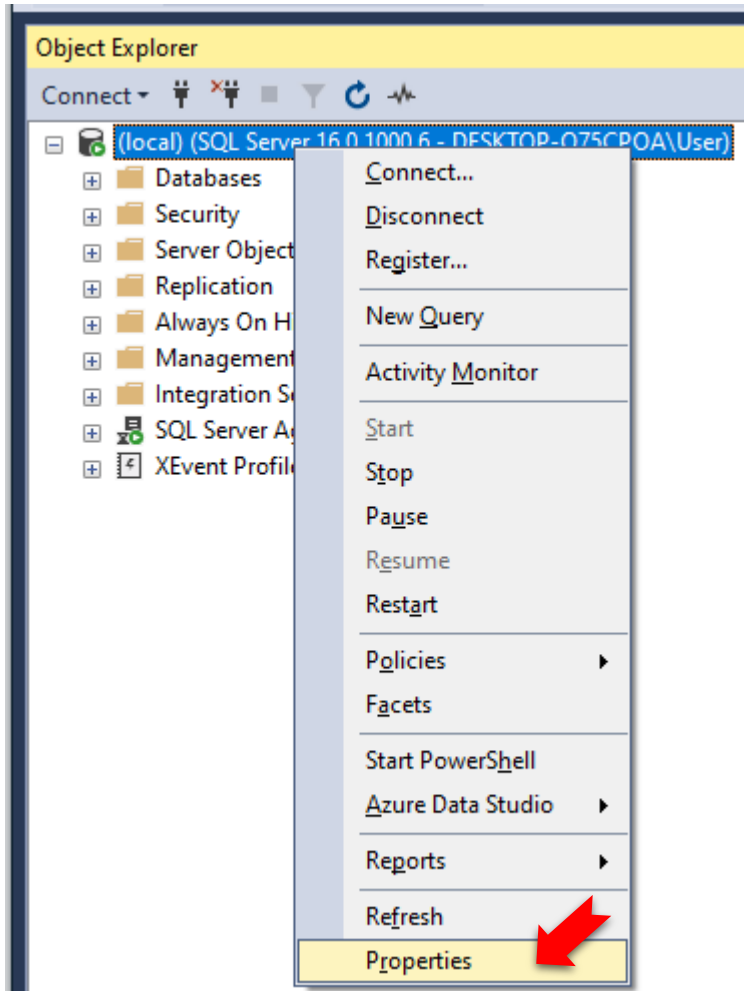
- 5) Restart the data engine



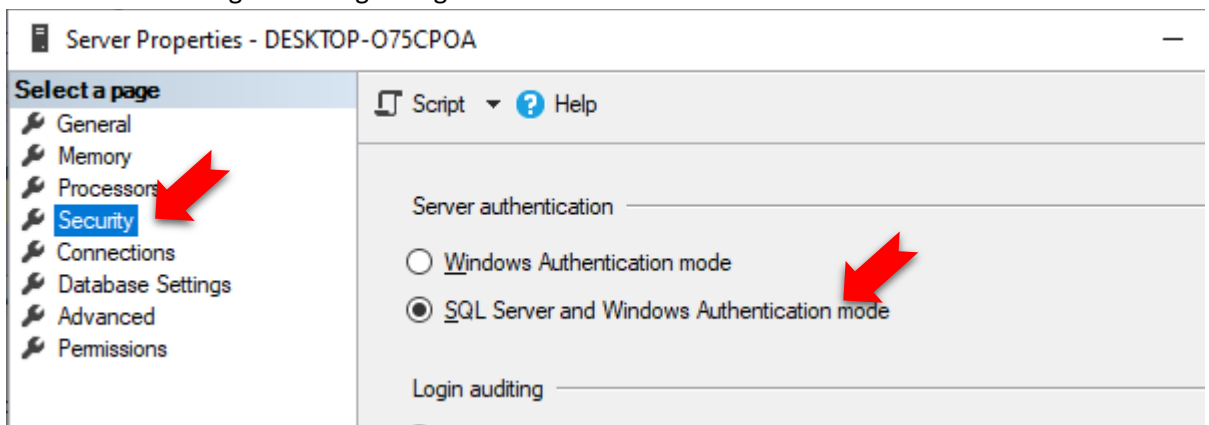
- 6) Close Configuration Manager
7) Connect to the data engine using Management Studio using your admin account



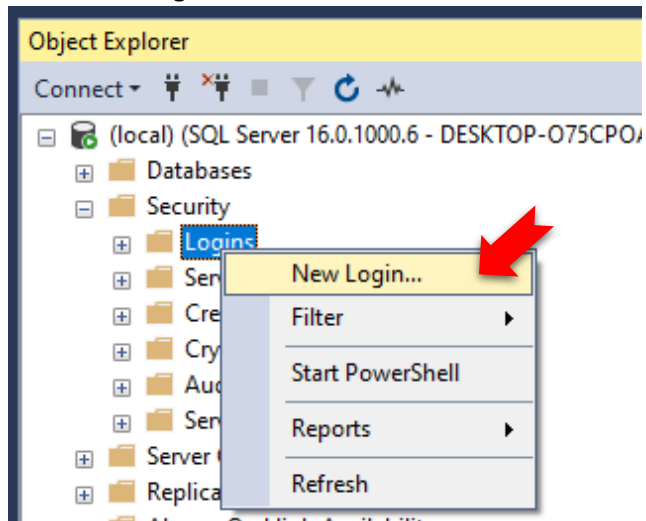
- 8) Open property setting for the data engine



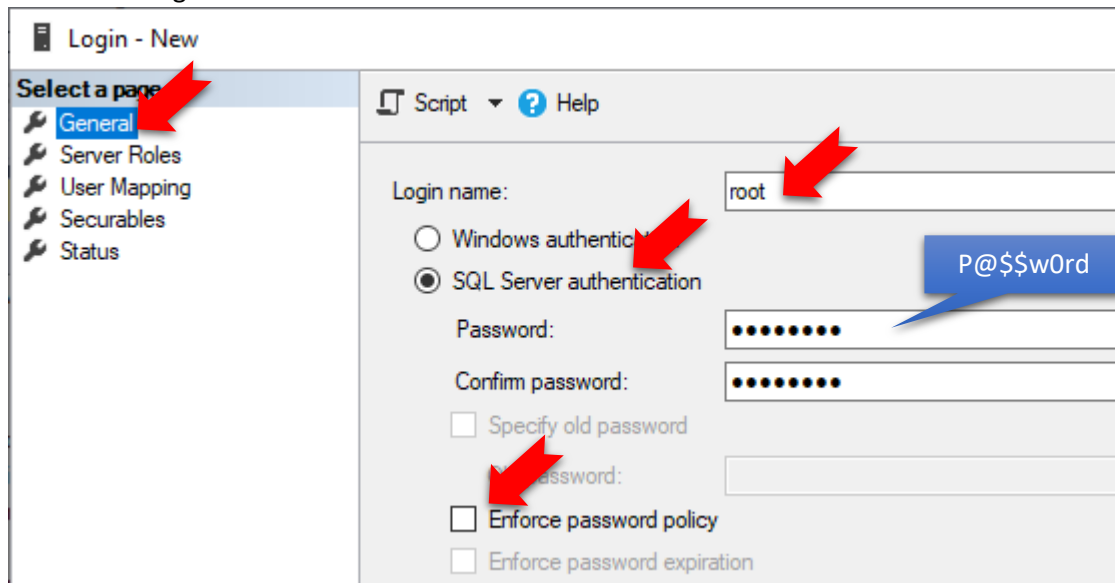
- 9) Under Security, make sure that Server authentication is Mixed mode. If not, select it and restart the data engine and sign in again



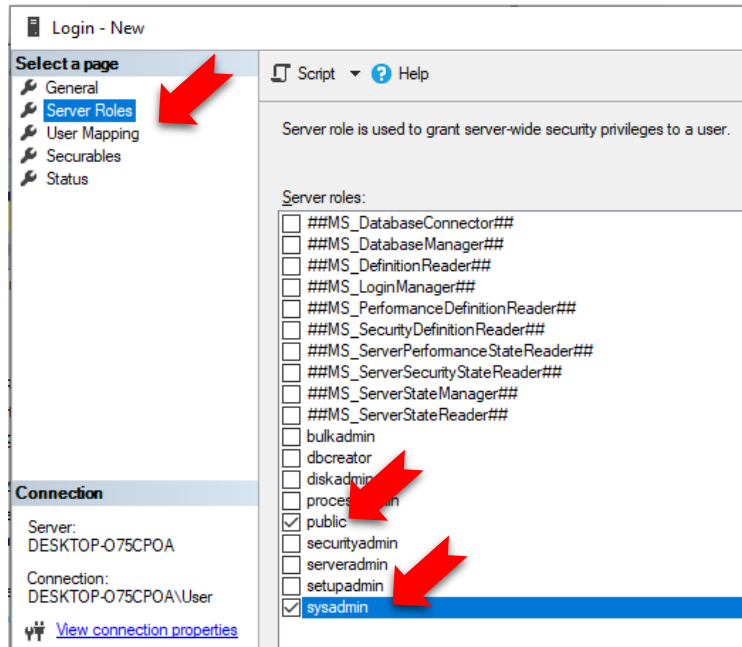
10) Create new login



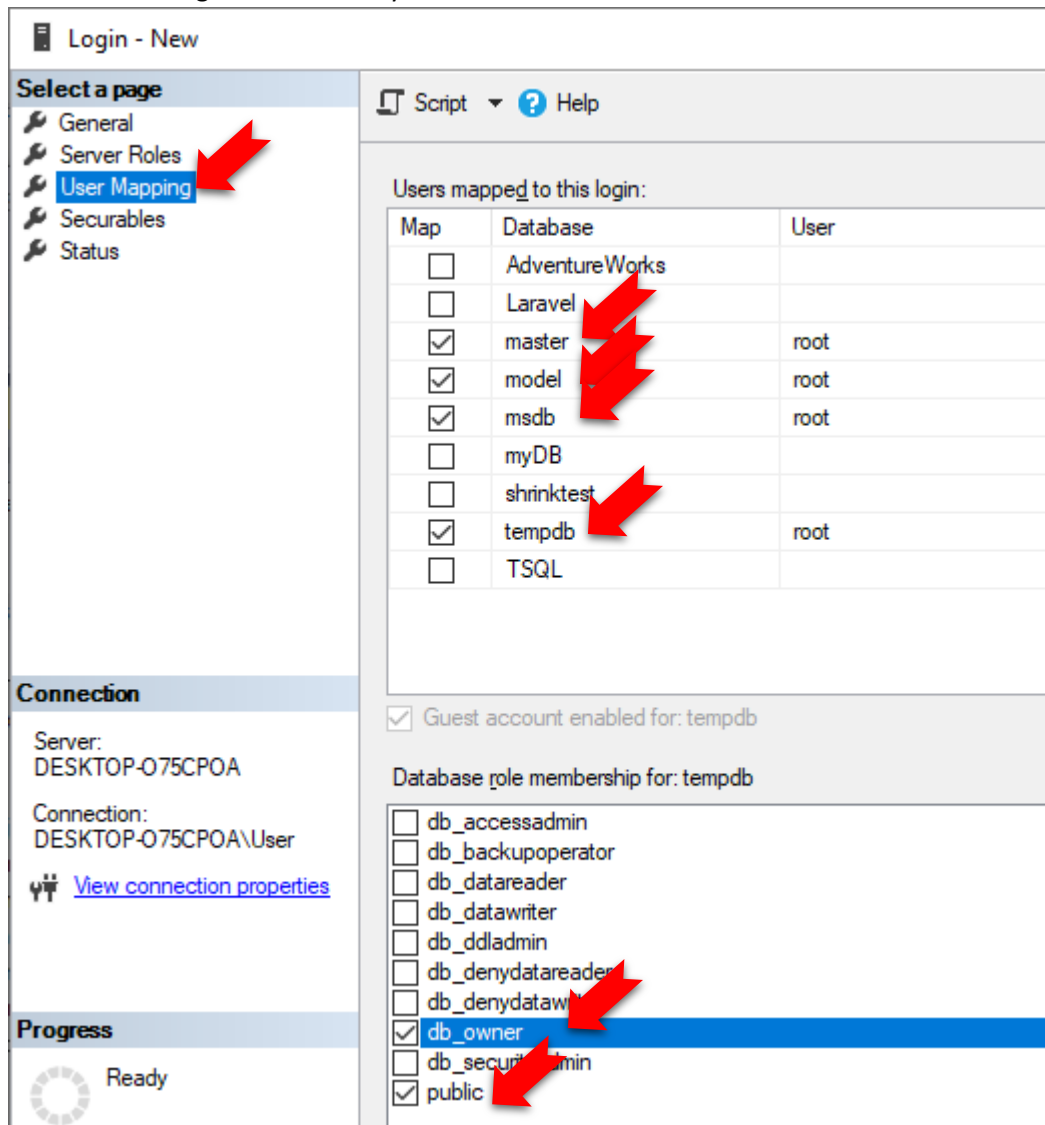
11) Create new login "root"



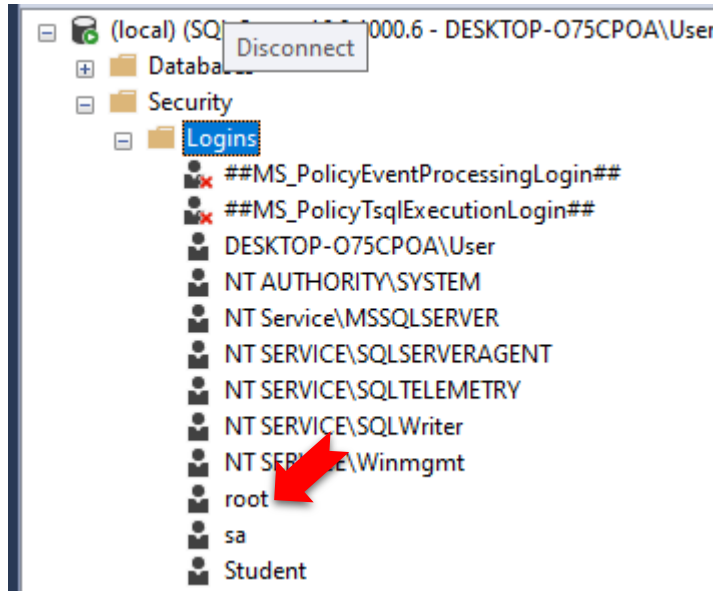
12) Under Server Roles



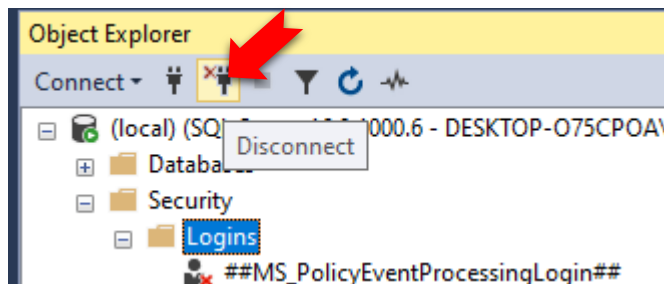
13) Set the following roles for all 4 system databases



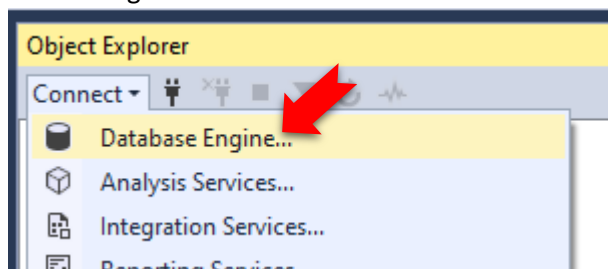
14) Press OK to create the login



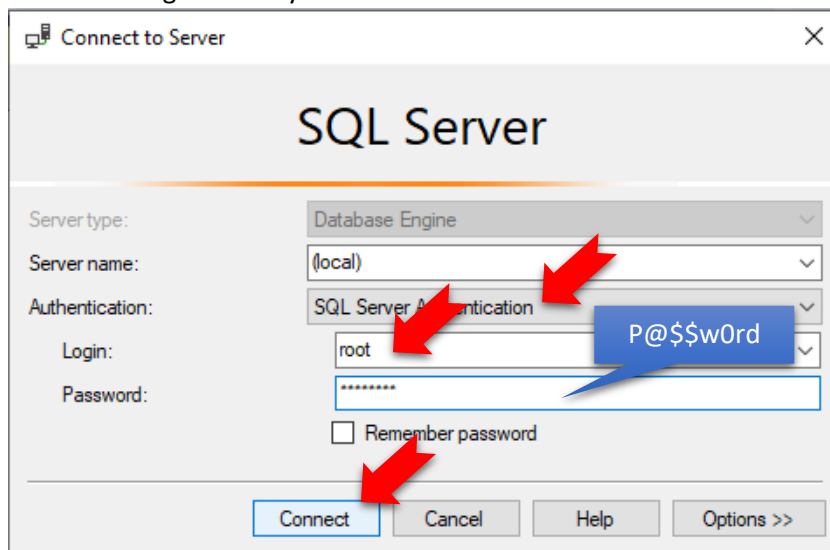
15) Disconnect now



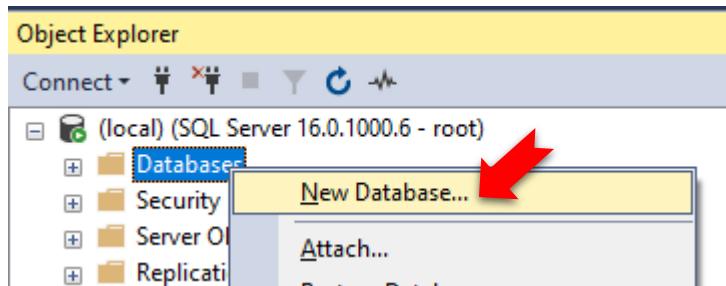
16) Connect again



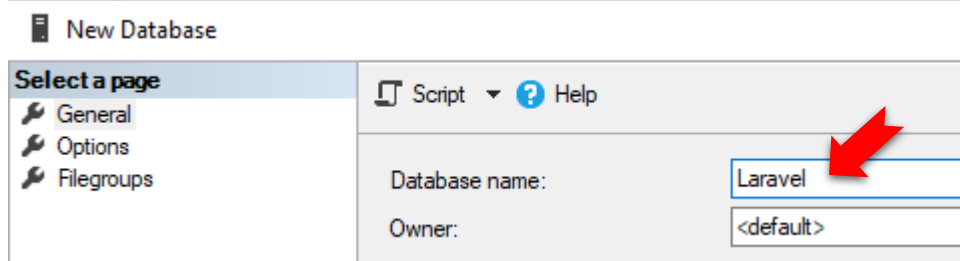
17) Connect using the newly create account



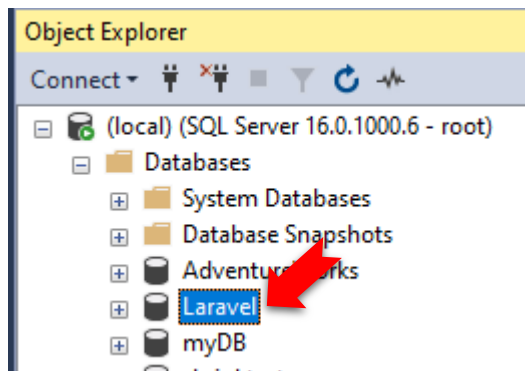
18) Create new database



19) Name it as "Laravel". Press **OK** to create

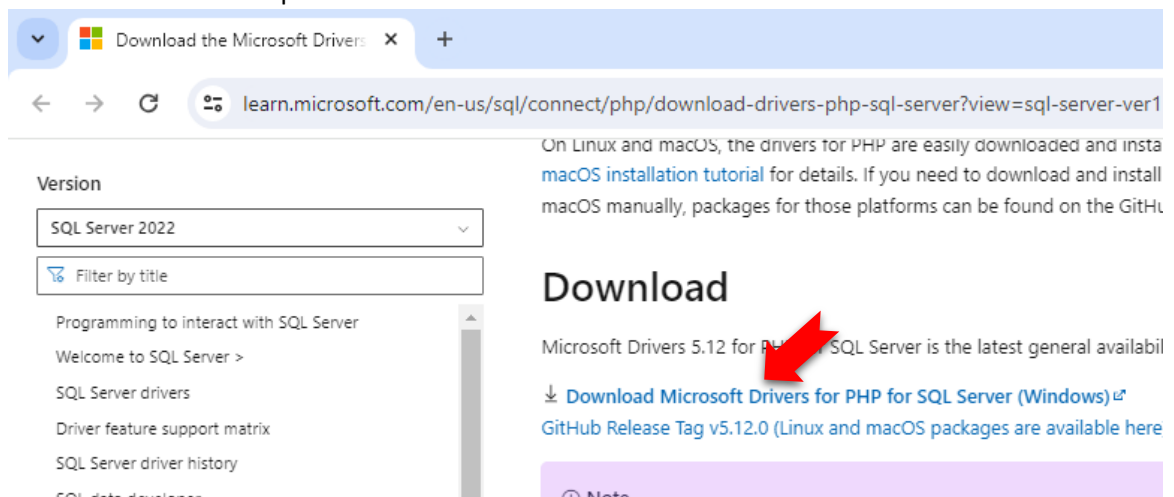


20) Ensure the database is created. Leave the Management studio open

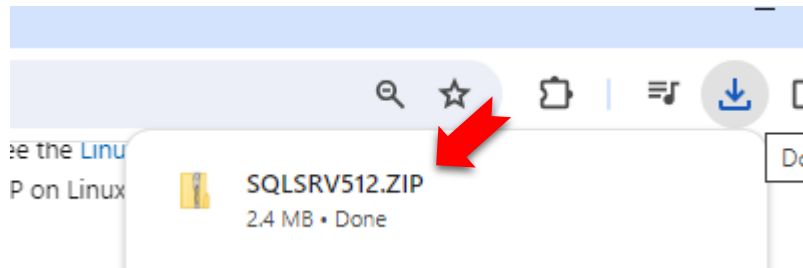


21) Go to <https://learn.microsoft.com/en-us/sql/connect/php/download-drivers-php-sql-server?view=sql-server-ver16>

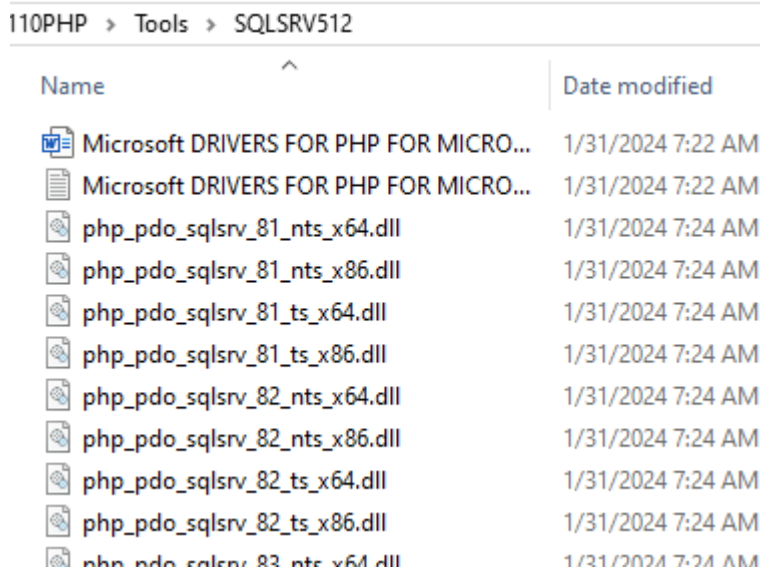
22) Download the Driver zip file



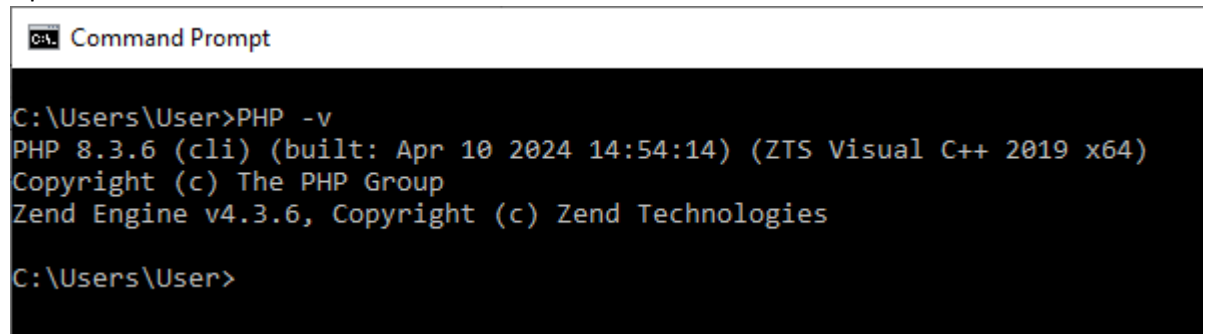
23) Start Download



24) Unzip the file and you will see many DLL files

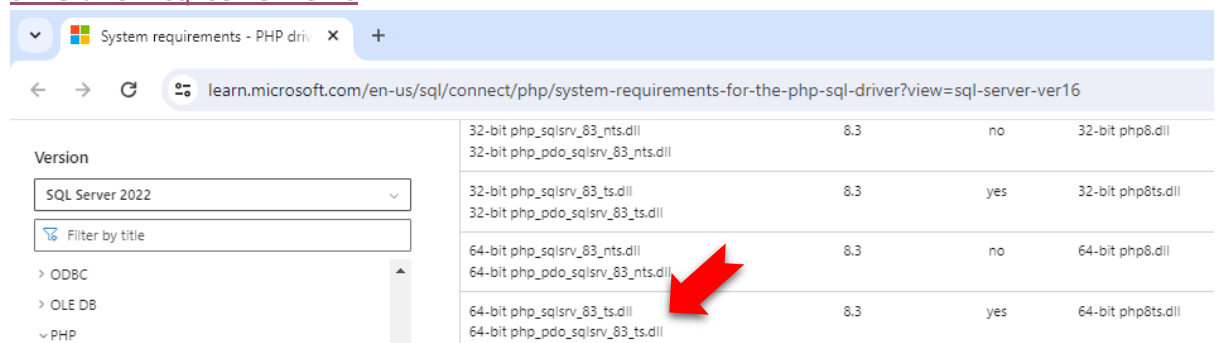


25) Open command window to find out PHP version

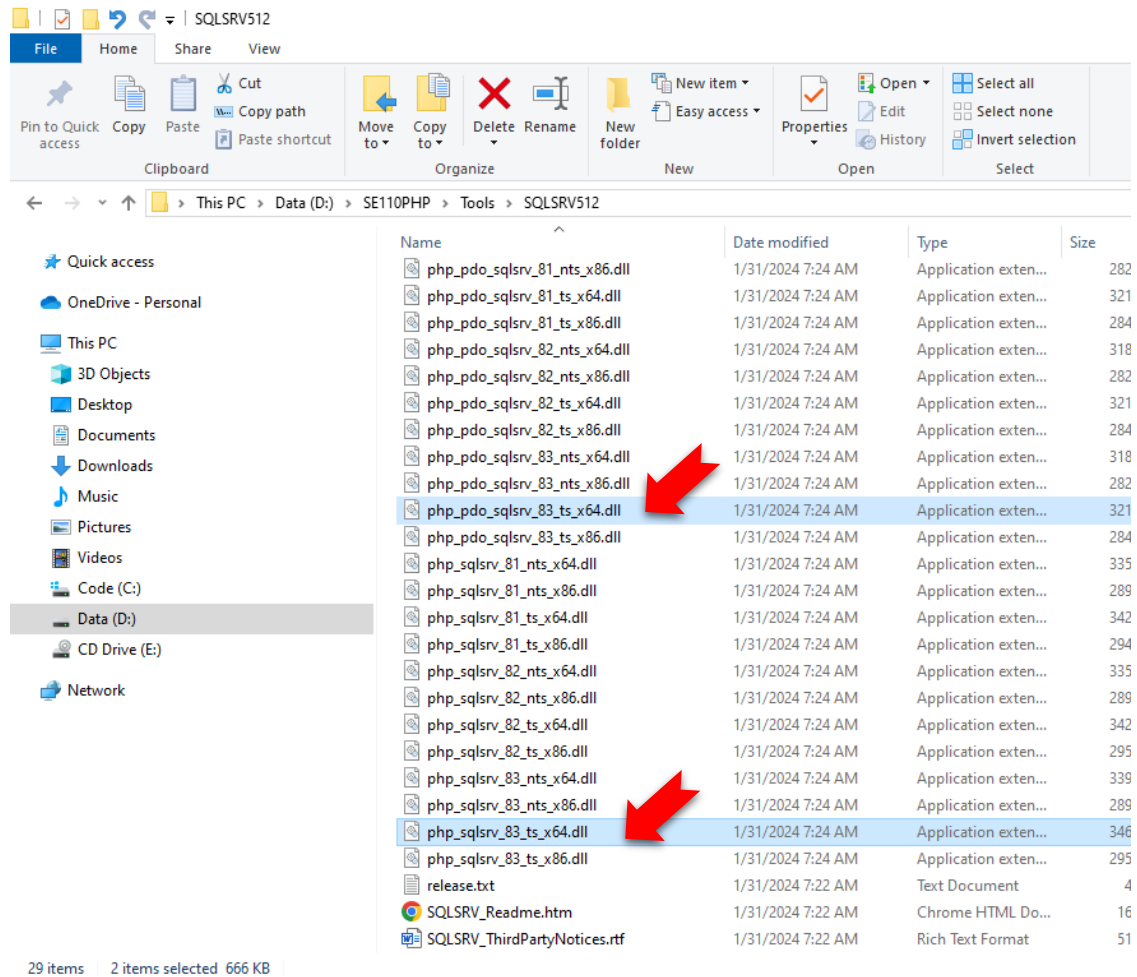


26) Go to this site to select right version of DLL driver files. Let's select 64bits thread safe version

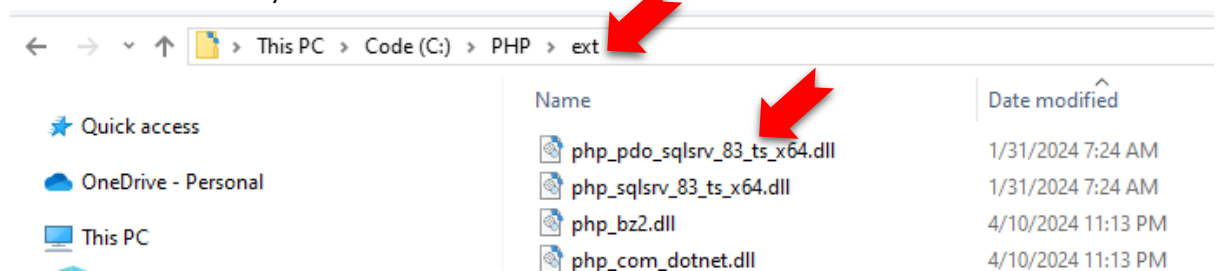
<https://learn.microsoft.com/en-us/sql/connect/php/system-requirements-for-the-php-sql-driver?view=sql-server-ver16>



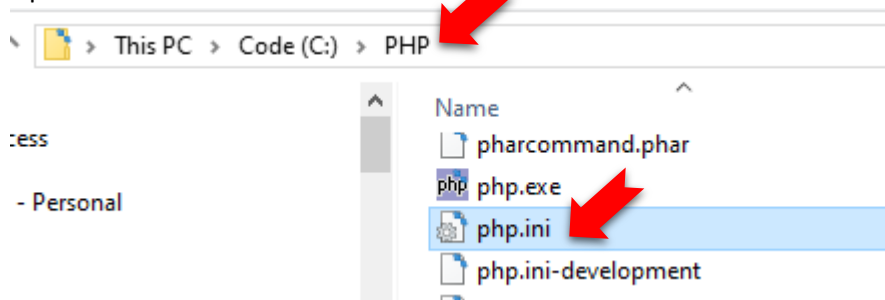
27) Go to unzip folder, copy the following files



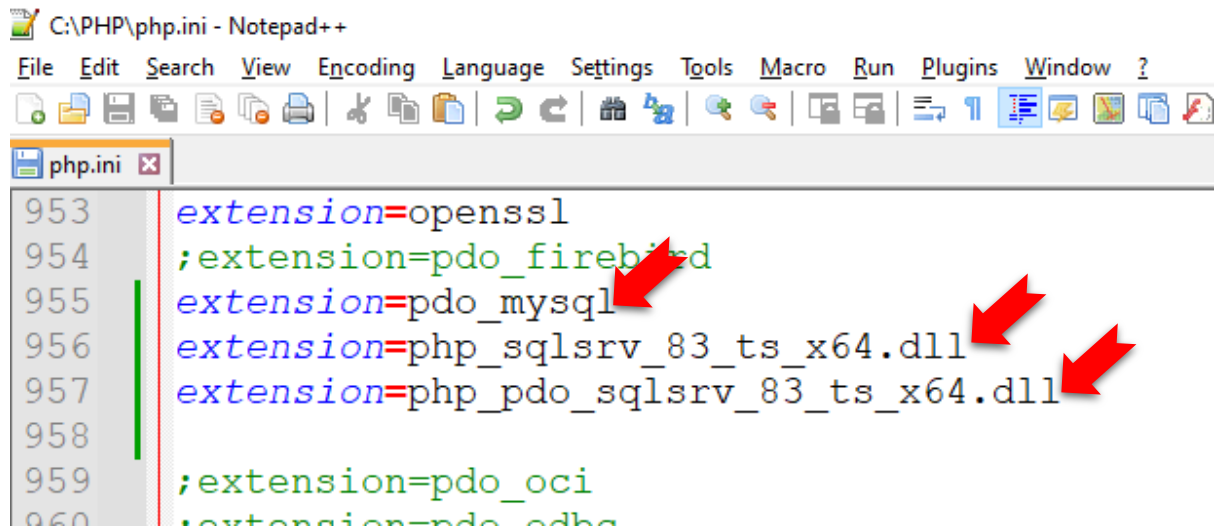
28) Paste to <PHP Folder>/etc



29) Open PHP.ini from the <PHP Folder>



- 30) Under PHP.ini, serch “extension=pdo_mysql”. If there is “;” comment character, remove the character (If you already installed MySQL. We might want to use MySQL as well). Create 2 more new extensions as below

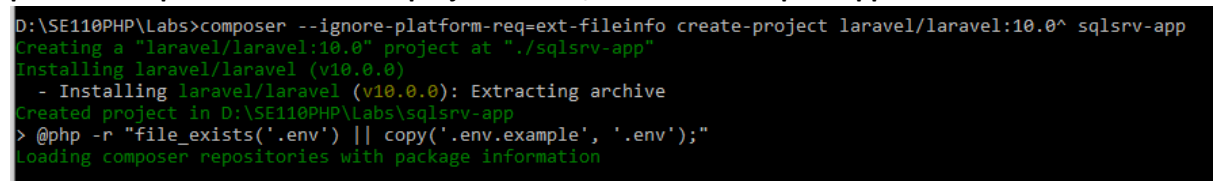


A screenshot of the Notepad++ editor showing the php.ini file. The text is as follows:

```
953 extension=openssl
954 ;extension=pdo_firebird
955 extension=pdo_mysql
956 extension=php_sqlsrv_83_ts_x64.dll
957 extension=php_pdo_sqlsrv_83_ts_x64.dll
958
959 ;extension=pdo_oci
960 ;extension=pdo_odbc
```

Four red arrows point to the lines: `extension=pdo_mysql`, `extension=php_sqlsrv_83_ts_x64.dll`, `extension=php_pdo_sqlsrv_83_ts_x64.dll`, and `;extension=pdo_oci`.

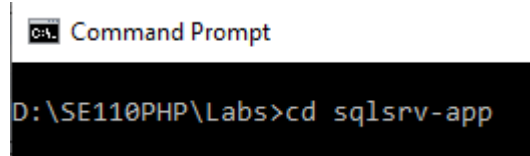
- 31) Save and close PHP.ini
32) Use command window to create a new Laravel project by typing “**composer --ignore-platform-req=ext-fileinfo create-project laravel/laravel:10.0^ sqlsrv-app**”



A screenshot of a Command Prompt window showing the output of the command:

```
D:\SE110PHP\Labs>composer --ignore-platform-req=ext-fileinfo create-project laravel/laravel:10.0^ sqlsrv-app
Creating a "laravel/laravel:10.0" project at "./sqlsrv-app"
Installing laravel/laravel (v10.0.0)
- Installing laravel/laravel (v10.0.0): Extracting archive
Created project in D:\SE110PHP\Labs\sqlsrv-app
> @php -r "file_exists('.env') || copy('.env.example', '.env');"
Loading composer repositories with package information
```

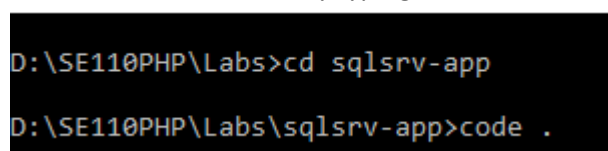
- 33) Upon successful project creation, go to project folder by typing “**cd sqlsrv-app**”



A screenshot of a Command Prompt window showing the command:

```
D:\SE110PHP\Labs>cd sqlsrv-app
```

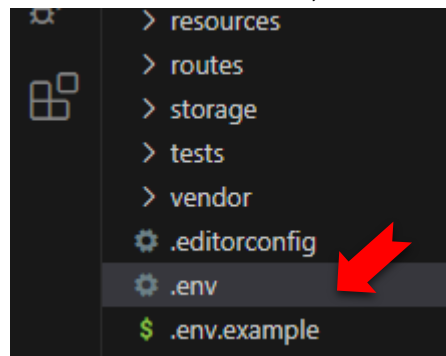
- 34) Start Visual Studio Code by typing “code .”



A screenshot of a Command Prompt window showing the command:

```
D:\SE110PHP\Labs>cd sqlsrv-app
D:\SE110PHP\Labs\sqlsrv-app>code .
```

- 35) Under Visual Studio Code, select .env

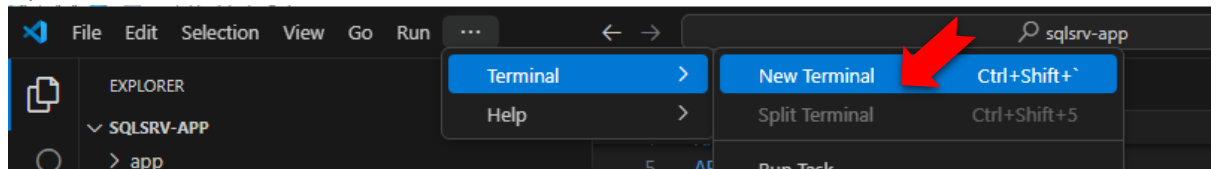


36) Under the database setting, change to the following

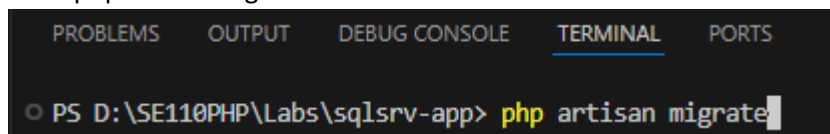
```
DB_CONNECTION=sqlsrv
DB_HOST=127.0.0.1
DB_PORT=
DB_DATABASE=laravel
DB_USERNAME=root
DB_PASSWORD="P@$$w0rd"
```

37) Save the changes

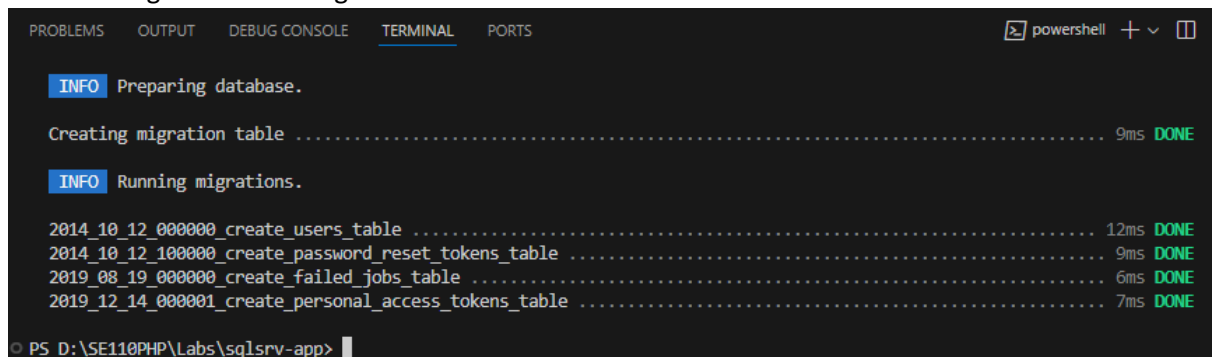
38) Open new Terminal window



39) Run "php artisan migrate"



You should get the following



40) Switch back to SQL Management Studio, expand the Laravel database, you should get the following

