Installation and Configuration Steps for Database Connection using PHP

1. Install PHP development environment

   https://www.apachefriends.org/index.html

   Download XAMPP for windows (take note of the XAMPP version)

2. Download PHP drivers

   https://learn.microsoft.com/en-us/sql/connect/php/download-drivers-php-sql-server?view=sql-server-ver15

   click the **Download Microsoft Drivers for PHP for SQL Server (Windows)** to download the drivers

   2.1 Open the downloaded folder and look for the correct driver for the XAMPP version you have downloaded.
   Ex. If you have downloaded XAMPP version 8.1.10, look for the following drivers:
   php_pdo_sqlsrv_81_ts_x64.dll
   php_sqlsrv_81_ts_x64.dll

   2.2 Go to your local drive C: and look for the *xampp* folder. Inside the xampp folder find the *php* folder then the *ext* folder. Copy and paste the drivers in this folder.

   2.3 Go back to the *php* folder and look for the *php.ini* file. Open the file in notepad. Scroll or find the area where extensions are listed : ex. *extension=bz2* and others
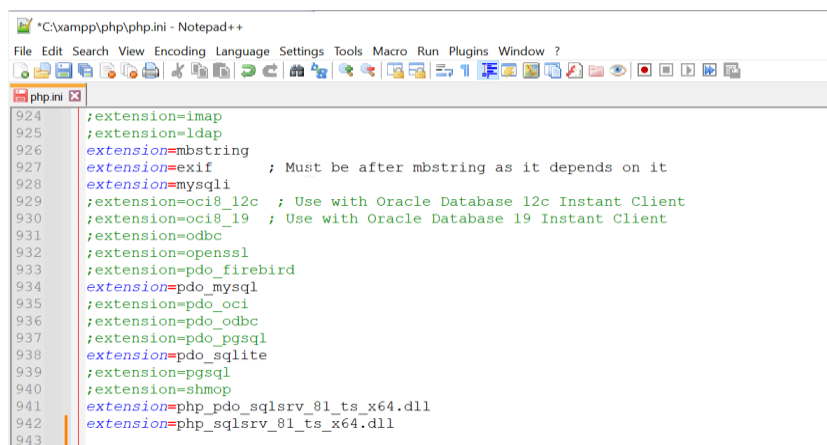
   Go to the last line of the extensions and add these two more extensions:
   extension=<name of the driver1>
   extension=<name of driver2>

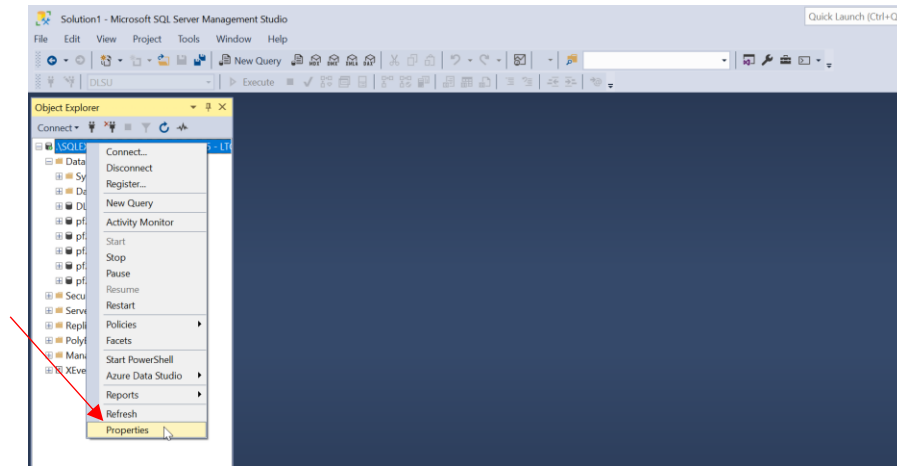   ex. extension=php_pdo_sqlsrv_81_ts_x64.dll
   extension=php_sqlsrv_81_ts_x64.dll
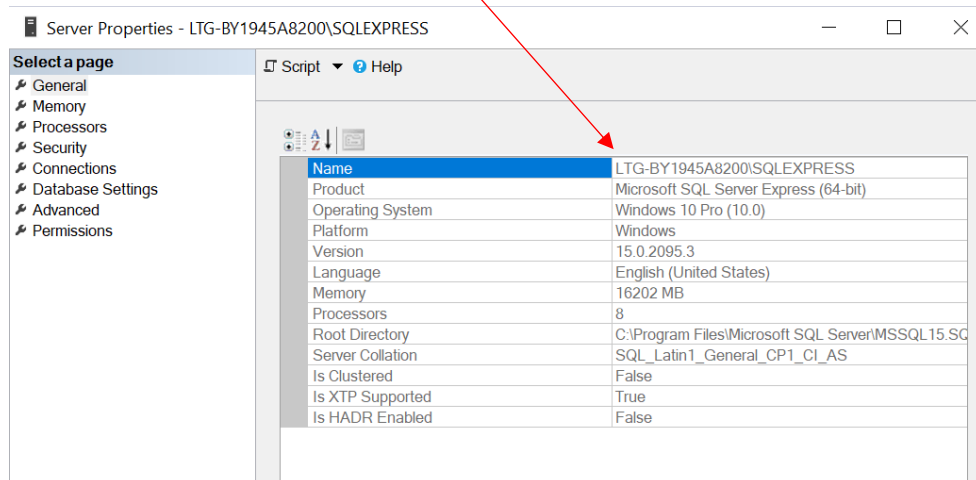
2.4 Save the *php.ini* file.

3. Make sure that SQL Server Management Studio (SSMS) is installed in your computer.
   3.1 Open SSMS and connect to the SQLExpress Server
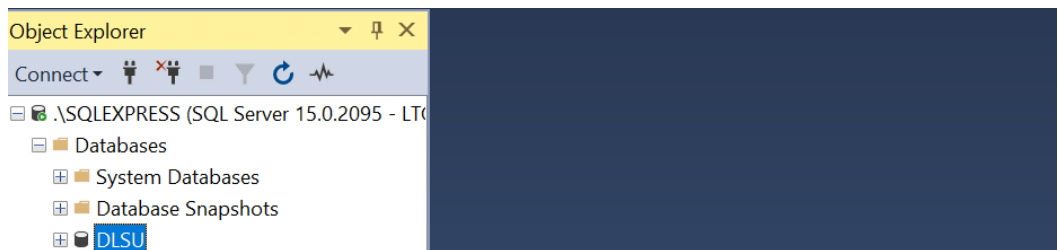   3.2 Once connected, in the Object Explorer, right-click on the SQLExpress server and open properties.
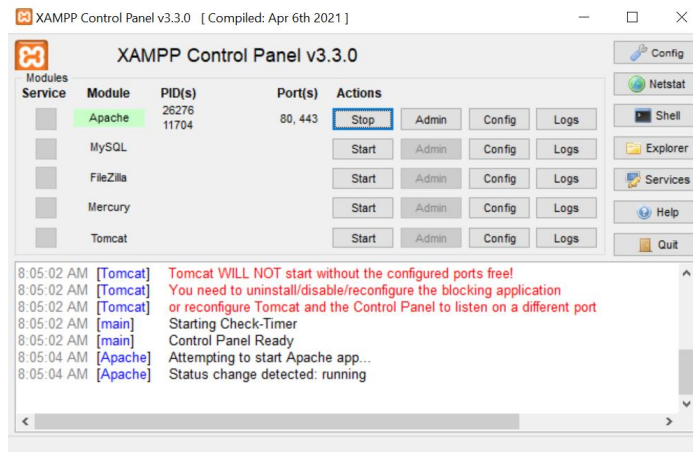

   3.3 Take note of the complete Server name

   3.4 Make sure that the DLSU database is present in the server

4. Go to your local drive C: and look for the *xampp* folder. Inside the xampp folder look for the *htdocs* folder. Inside the *htdocs* folder, create a new folder. ex. webapp

5. Open your Visual Studio Code. File > Open Folder, locate and open the folder you have created inside the htdocs folder.

6. Add new file, name it as connect.php. Type the below code and save.

```php
<?php
$serverName="the complete name of your sqlexpress server";
$connectionOptions=[
"Database"=>"DLSU",
"Uid"=>"",
"PWD"=>""
];
$conn=sqlsrv_connect($serverName, $connectionOptions);
if($conn==false)
        die(print_r(sqlsrv_errors(),true));
else echo 'Connection Success';
```

7. Open the XAMPP application and make sure that the Apache module is running. If not, click start.

   To open: Search for XAMPP in your taskbar

8. Open you google chrome browser and type this url:

   http://localhost/webapp/connect.php

   Note: change "webapp" if you have a different folder name

9. You should see a connection success message if the configuration is correct.