

Laravel5.3: Connect MySQL

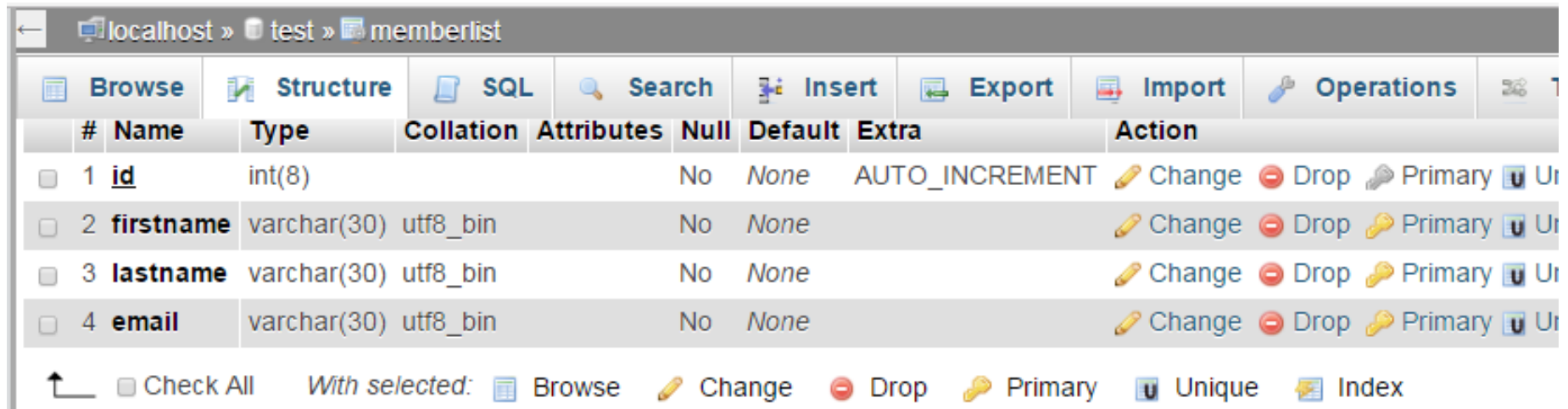
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Reference: <https://laravel.com/docs/5.3/eloquent>

Create a database and a table with phpmyadmin

- Database name: test
- Table name: memberlist



The screenshot shows the phpMyAdmin interface for the 'test' database, specifically the 'memberlist' table. The top navigation bar includes links for Browse, Structure, SQL, Search, Insert, Export, Import, and Operations. The table structure is displayed in a table format with columns for #, Name, Type, Collation, Attributes, Null, Default, Extra, and Action.

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	1 id	int(8)			No	None	AUTO_INCREMENT	Change Drop Primary Unique
<input type="checkbox"/>	2 firstname	varchar(30)	utf8_bin		No	None		Change Drop Primary Unique
<input type="checkbox"/>	3 lastname	varchar(30)	utf8_bin		No	None		Change Drop Primary Unique
<input type="checkbox"/>	4 email	varchar(30)	utf8_bin		No	None		Change Drop Primary Unique

At the bottom, there is a 'Check All' checkbox and a 'With selected:' section containing icons for Browse, Change, Drop, Primary, Unique, and Index.

Insert information to the table

Browse Structure SQL Search Insert Export

✓ Showing rows 0 - 1 (2 total, Query took 0.0000 sec)

```
SELECT *  
FROM `memberlist`  
LIMIT 0 , 30
```

Show : Start row: Number of rows: Headers every

Sort by key:

+ Options

				id	firstname	lastname	email	
<input type="checkbox"/>		Edit	Copy	Delete	1	Somsak	S	somsak@hotmail.com
<input type="checkbox"/>		Edit	Copy	Delete	2	Wanrop	W	Wanrop@hotmail.com

☐ Check All With selected: Change Delete Export

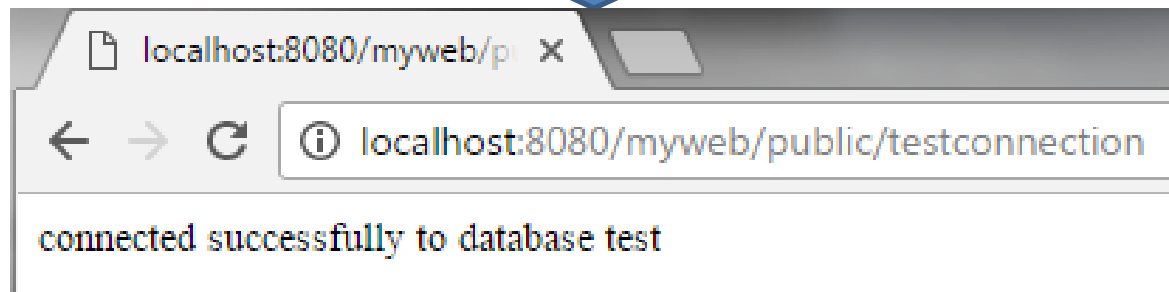
Setup connection *config/database.php*

```
'mysql' => [  
    'driver' => 'mysql',  
    'host' => 'localhost',  
    'port' => '3307',  
    'database' => 'test',  
    'username' => 'root',  
    'password' => 'usbw',  
    'charset' => 'utf8',  
    'collation' => 'utf8_bin',  
    'prefix' => '',  
    'strict' => true,  
    'engine' => null,  
],
```

Test Connection

- Add test connection at *routes/web.php* (route)

```
Route::get('/testconnection', function () {  
    if(DB::connection()->getDatabaseName())  
    {  
        echo "connected successfully to database ".DB::connection()->  
            getDatabaseName();  
    }  
});
```



Create database class

- open cmd at php.exe directory, then makes a reference path.

path <- List of reference paths

path = %cd% <- Making reference to current path

- Move to laravel directory (look up artisan script) and then make database class with artisan command.

```
php artisan make:model memberlist
```

```
D:\Temp\USBwebserver86_laravel153\USBwebserver86_laravel153\root\myweb>php artisan  
make:model memberlist  
Model created successfully.
```

Open *app\memberlist.php*

- Add table name and timestamp off

```
<?php

namespace App;

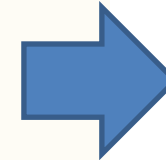
use Illuminate\Database\Eloquent\Model;

class memberlist extends Model
{
    protected $table = 'memberlist';
    public $timestamps = false;
    //
}
```

Test database access

- Write code getting data from DB.
- Writing at *routes/web.php*

```
Route::get('/ml', function () {  
    $m = App\memberlist::all();  
    echo "<pre>";  
    print_r($m);  
    echo "</pre>";  
    exit;  
});
```

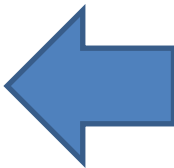
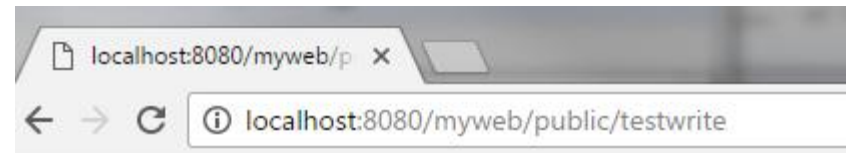


```
← → ↻ ⓘ localhost:8080/myweb/public/ml  
Illuminate\Database\Eloquent\Collection Object  
(  
    [items:protected] => Array  
        (  
            [0] => App\memberlist Object  
                (  
                    [table:protected] => memberlist  
                    [timestamps] =>  
                    [connection:protected] =>  
                    [primaryKey:protected] => id  
                    [keyType:protected] => int  
                    [perPage:protected] => 15  
                    [incrementing] => 1  
                    [attributes:protected] => Array  
                        (  
                            [id] => 1  
                            [firstname] => Somsak  
                            [lastname] => S  
                            [email] => somsak@hotmail.com  
                        )  
                    [original:protected] => Array  
                        (  
                            [id] => 1  
                            [firstname] => Somsak  
                            [lastname] => S  
                            [email] => somsak@hotmail.com  
                        )  
                    [relations:protected] => Array  
                        (  
                        )  
                    [hidden:protected] => Array  
                        (  
                        )  
                    [fillable:protected] => Array  
                        (  
                        )  
                )  
        )  
    )
```


Writing a record to the table

- Place code at routes/web.php

```
Route::get('/testwrite', function () {  
    $m = new App\memberlist  
  
    $m->firstname = "abc";  
    $m->lastname = "def";  
    $m->email = "abcdef@gmail.com";  
    $m->save();  
});
```



Options

	id	firstname	lastname	email
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Somsak	S	somsak@hotmail.com
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	Wanrop	W	Wanrop@hotmail.com
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	abc	def	abcdef@gmail.com

Check All With selected: ☐ Change ☐ Delete ☐ Export