



Laravel Notes

Foreign Key Laravel DB



Steps

- Create New Project
- DB Connection





Note

- In Laravel Migration will done by DateTime Stamp wise.
- Example :
 - 2014_10_12_product_table.php
 - 2015_01_12_category_table.php

How Migration will work? First it will create Product Table and then it will create category table.

What is Problem?

Category Id will be foreign key in Product table

First delete all table from phpmyadmin then

We need to change sequence of table datetime stamp (Rename manually)

- 2015_10_12_product_table.php
- 2014_01_12_category_table.php
- Run migration command





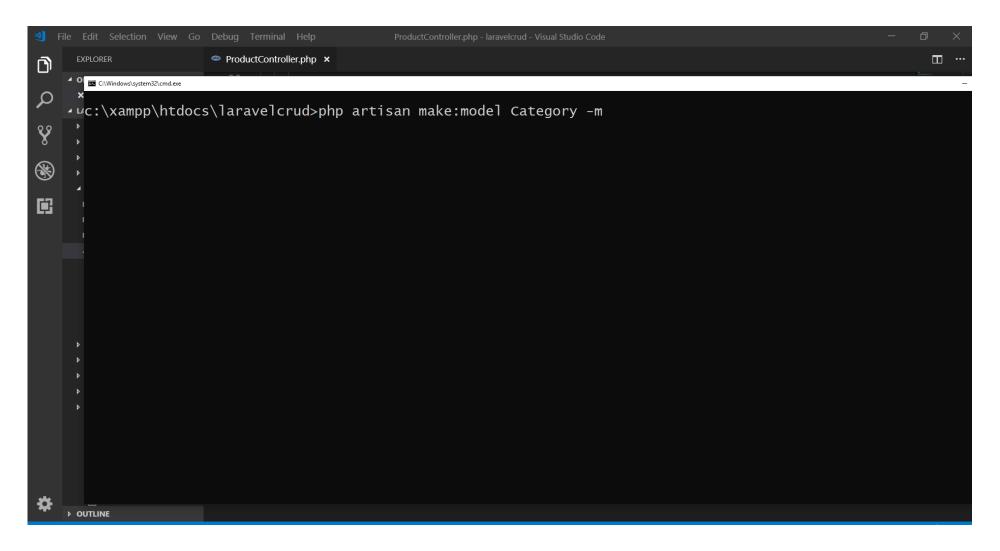
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Note:

- First Always make Master table and then Create Transaction table
- Example :
 - Category
 - CategoryID
 - CategoryName
 - Product
 - ProductID
 - ProductName
 - ProductPrice
 - Category ID
 - If you face any error delete all tables from phpmyadmin and then use migrate command



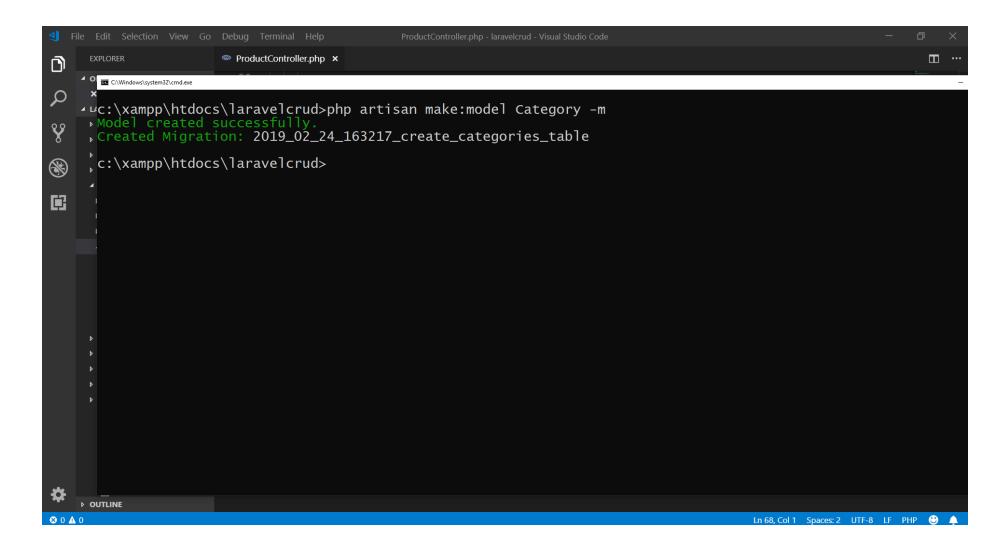
Create Model and migration file of Category







File Created







System will rename categories.

```
File Edit Selection View Go Debug Terminal Help
                                                                  2019 02 24 163217 create categories table.php - laravelcrud - Visual Studio Code
                                          2019_02_24_163217_create_categories_table.php x
                                                                                                                                                            III ...
                                              7 class CreateCategoriesTable extends Migration

▲ OPEN EDITORS

       x ∞ 2019_02_24_163217_create_categories_...
      ▲ LARAVELCRUD
                                                         * Run the migrations.
      b bootstrap
      config
                                                         * @return void
       ▶ ■ factories
                                                       public function up()
        migrations
           2014 10 12 000000 create users ta...
                                                            Schema::create('categories', function (Blueprint $table) {
           2014 10 12 100000 create passwor...
                                                                 $table->increments('id');
                                             17
           2019_02_11_165053_create_product...
                                                                 $table->timestamps();
           2019 02 24 163217 create categori...
                                                            });
        ▶ ■ seeds
         .gitignore
      public
      resources
      routes
                                                         * Reverse the migrations.
      ▶ ■ storage
      tests
                                                         * @return void
      vendor
         .editorconfig
                                                       public function down()
         Гì .env
         env.example
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                                           PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                                           3: cmd
         • .gitignore
                                           C:\xampp\htdocs\laravelcrud>php
         artisan
         composer.json
     ▶ OUTLINE
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⊗ 0 A 0
```





Define Category table Fields

```
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                                                               2019 02 24 163217 create categories table.php - laravelcrud - Visual Studio Code
                                      2019 02 24 163217 create categories table.php x
                                                                                                                                                         class CreateCategoriesTable extends Migration

▲ OPEN EDITORS

   x ∞ 2019 02 24 163217 create categories ..
 ▲ LARAVELCRUD
                                                     * Run the migrations.
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   ▶ ■ config
                                                     * @return void
   database
    ▶ ■ factories
                                                   public function up()
    2014_10_12_000000_create_users_ta...
                                                        Schema::create('categories', function (Blueprint $table) {
       2014_10_12_100000_create_passwor...
                                                             $table->increments('category id');
       2019 02 11 165053 create product...
                                                             $table->string('category_name');
       2019_02_24_163217_create_categori...
                                                             $table->timestamps();
    ▶ ■ seeds
                                                        });
      .gitignore
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   public
   resources
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     .gitattributes
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Migrate table

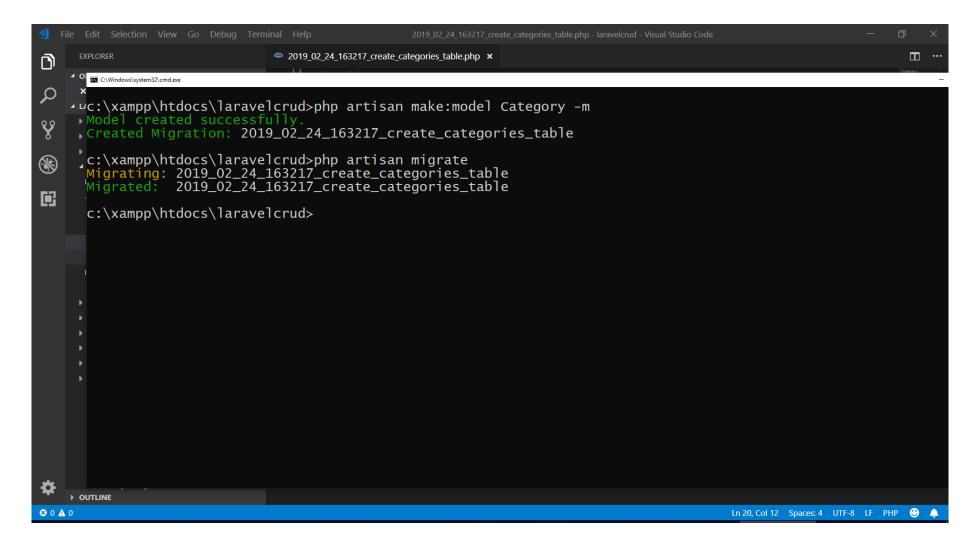
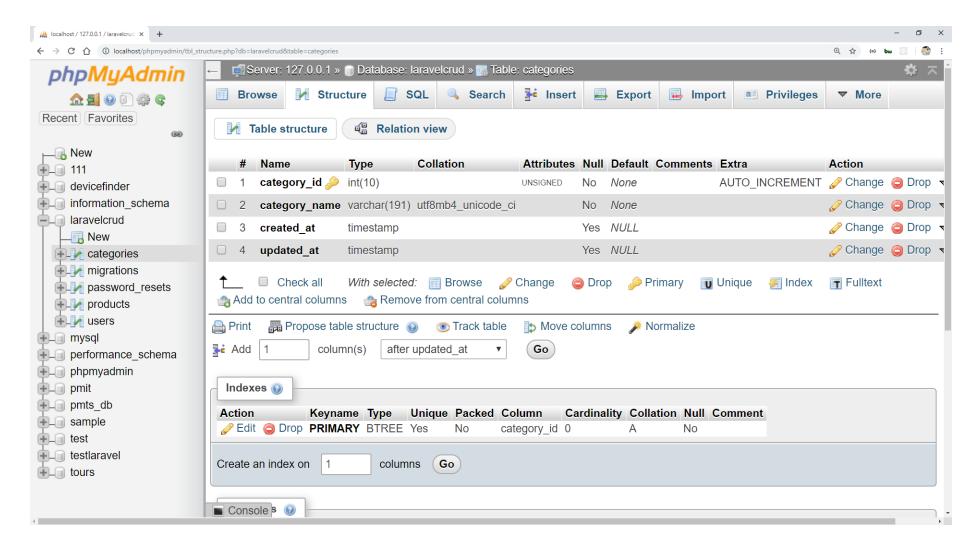






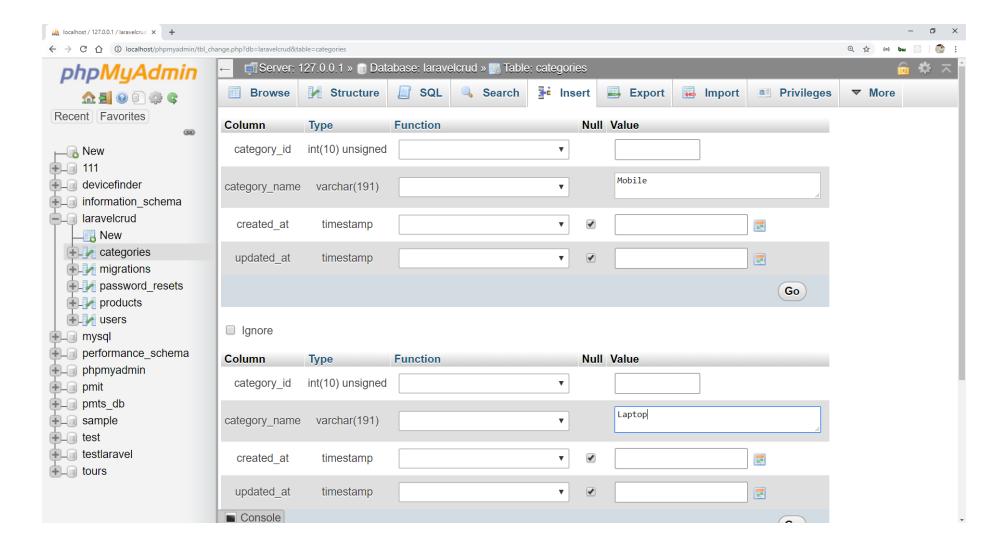
Table Structure inPHPMyAdmin







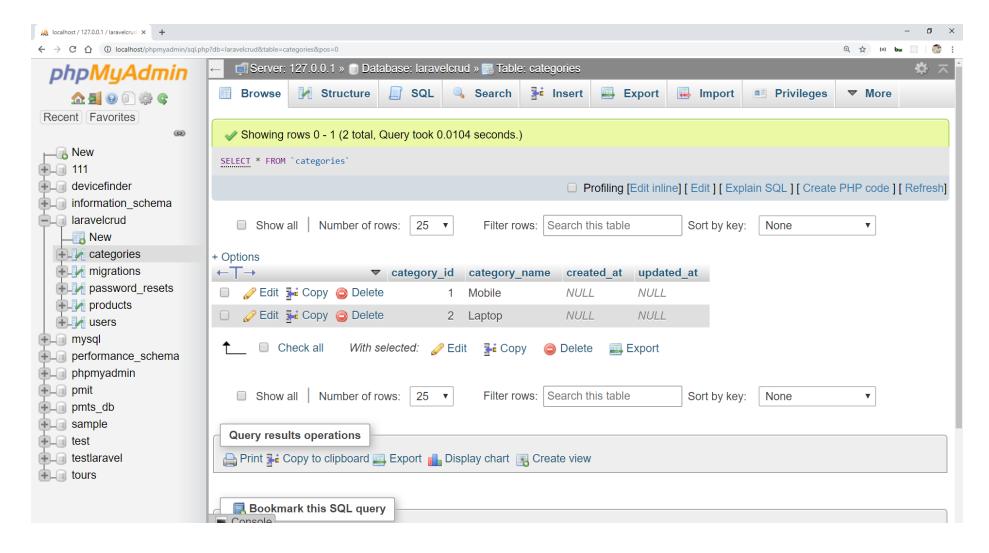
Add some data







Display Data







Define product table fields.

```
File Edit Selection View Go Debug Terminal Help
                                                                 2019_02_11_165053_create_products_table.php - laravelcrud - Visual Studio Code
                                                2019_02_11_165053_create_products_table.php x
                                                                                                                                                        class CreateProductsTable extends Migration

▲ OPEN EDITORS

      x ∞ 2019 02 11 165053 create products table.php da...
     ▲ LARAVELCRUD
                                                               * Run the migrations.
      ▶ 👼 app
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      config
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      database
       ▶ ■ factories
                                                             public function up()
        2014_10_12_000000_create_users_table.php
                                                                  Schema::create('products', function (Blueprint $table) {
          2014_10_12_100000_create_password_resets_ta...
                                                                      $table->increments('product_id');
          2019_02_11_165053_create_products_table.php
                                                                      $table->string('product_name');
          2019_02_24_163217_create_categories_table.php
                                                                      $table->string('product details');
       ▶ ■ seeds
                                                                      $table->bigInteger('product_price');
         .gitignore
                                                                      $table->string('product image');
      public
                                                                      $table->timestamps();
      resources
                                                   22
      routes
                                                                  });
      storage
      tests
      vendor
        ♠ .editorconfia
                                                               * Reverse the migrations.
        env [
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                                                 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
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```





Define Reference of Category Table

```
File Edit Selection View Go Debug Terminal Help
                                                                2019 02 11 165053 create products table.php - laravelcrud - Visual Studio Code
                            2019_02_11_165053_create_products_table.php x
2019_02_10_163217_create_categories_table.php
                                                                                                                                                     Ⅲ …
                                   class CreateProductsTable extends Migration

▲ OPEN EDITORS

      x ◎ 2019_02_11_165053_c...
        @ 2019 02 10 163217 c...
                                          * Run the migrations.
     ▲ LARAVELCRUD
      ▶ mapp
      ▶ ■ bootstrap
                                          * @return void
      config
      public function up()
       ▶ ■ factories
       Schema::create('products', function (Blueprint $table) {
          2014 10 12 00000...
                                                  $table->increments('product id');
          2014 10 12 10000...
                                                  $table->string('product name');
          2019 02 10 16321...
                                                  $table->string('product_details');
          2019_02_11_16505...
                                                  $table->bigInteger('product price');
       ▶ ■ seeds
                                                  $table->string('product image');
         • .gitignore
                                                  $table->integer('category id')->unsigned();
      public
                                                  $table->timestamps():
      resources
                              23
      routes
                                                  $table->foreign('category_id')->references('category_id')->on('categories');
      storage
      ▶ 🔀 tests
                                             });
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        .editorconfig
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        .gitignore
        artisan
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                                                                                                                      Ln 23, Col 34 Spaces: 4 UTF-8 LF PHP 😃 🔔
```





Reset Migration

```
- 0 ×
 C:\Windows\system32\cmd.exe
c:\xampp\htdocs\laravelcrud>php artisan migrate:reset
Rolling back: 2014_10_12_100000_create_password_resets_table
Rolled back: 2014_10_12_100000_create_password_resets_table
Rolling back: 2014_10_12_000000_create_users_table
Rolled back: 2014_10_12_000000_create_users_table
 c:\xampp\htdocs\laravelcrud>
```





Migrate Table

```
C:\Windows\system32\cmd.exe
                                                                                                                                                                                                                                                                                                                                                                                                                - 🗇 ×
c:\xampp\htdocs\laravelcrud>php artisan migrate
Migrating: 2014_10_12_000000_create_users_table
Migrating: 2014_10_12_000000_create_users_table
Migrated: 2014_10_12_000000_create_users_table
Migrating: 2014_10_12_100000_create_password_resets_table
Migrated: 2014_10_12_100000_create_password_resets_table
Migrating: 2019_02_10_163217_create_categories_table
Migrated: 2019_02_10_163217_create_categories_table
Migrating: 2019_02_11_165053_create_products_table
Migrated: 2019_02_11_165053_create_products_table
c:\xampp\htdocs\laravelcrud>
```



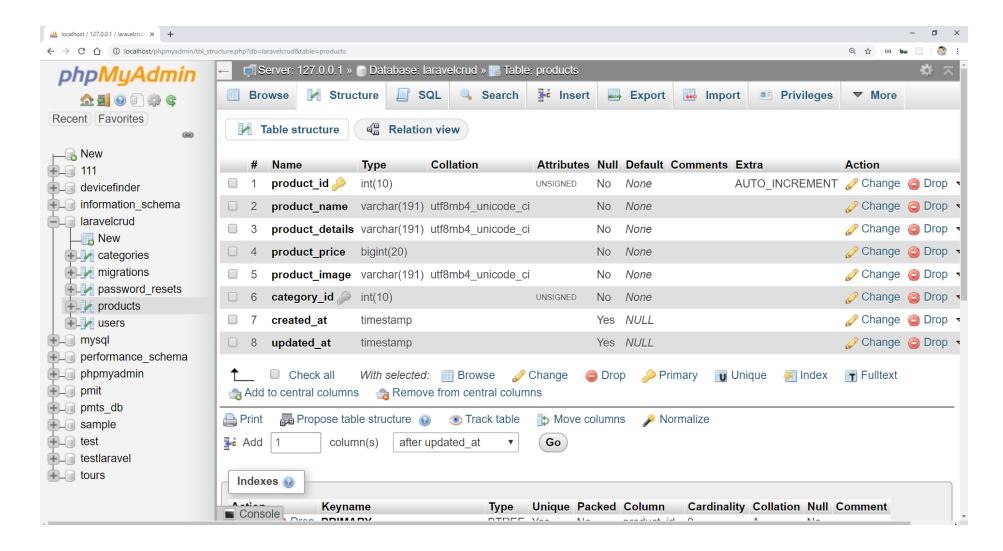


- Enjoy [©]
- First Phase Done





Check Table



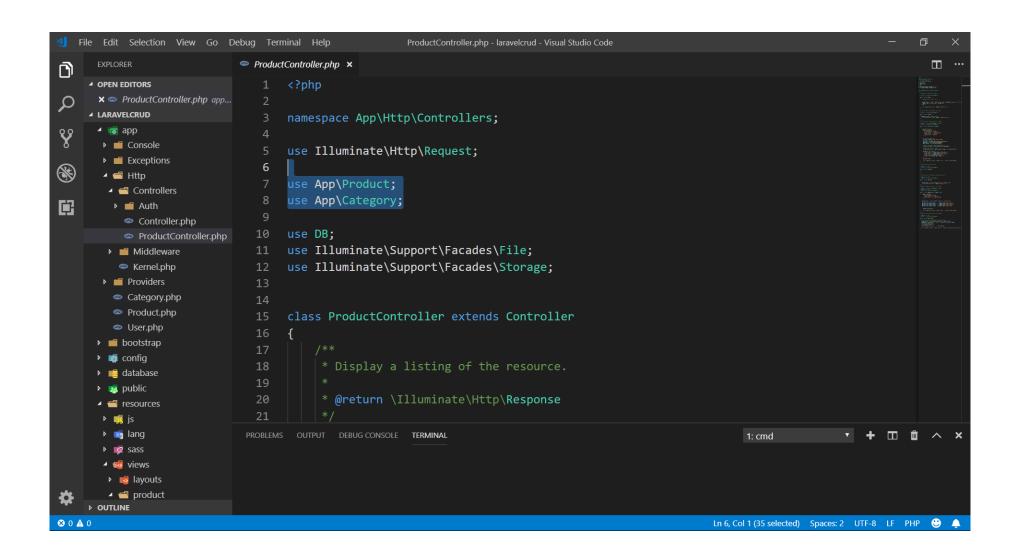




```
Category.php - laravelcrud - Visual Studio Code
                              Category.php X
                                                                                                                                                  Ⅲ …
     ▲ OPEN EDITORS
                                  1 <?php
                                  2
       ≍ <sup>∞</sup> Category.php app
     ▲ LARAVELCRUD
                                      namespace App;
       Console
                                      use Illuminate\Database\Eloquent\Model;
       Exceptions
(%)
       ▶ ■ Http
                                      class Category extends Model
       Providers
         Category.php
                                           protected $primaryKey = 'category_id';
         Product.php
         User.php
                                           protected $fillable = [
      ▶ ■ bootstrap
                                                'category_name'
      ▶ ■ config
      ▶ ■ database
      public
                                             ];
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       sass
       ▶ ■ layouts
        create.blade.php
           edit.blade.php
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           index.blade.php
          welcome.blade.php
      ▶ 🗱 routes
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```
ProductController.php - laravelcrud - Visual Studio Code
                         ProductController.php x
                                                                                                                                            □ …

▲ OPEN EDITORS

      × 🚥 ProductController.p...
                                     public function create()
     ▲ LARAVELCRUD
                           42
                                       //Fetch Category and Pass as a Query String
       ▶ ■ Console
                                        $categories_array = Category::all();
       ▶ ■ Exceptions
                                         return view('product.create',compact('categories_array'));
       Controllers
         ▶ ■ Auth
          Controller.php
          ProductControll...
                                      * Store a newly created resource in storage.
        Middleware
          Kernel.php
                                      * @param \Illuminate\Http\Request $request
       Providers
                                      * @return \Illuminate\Http\Response
         Category.php
         Product.php
                                     public function store(Request $request)
        User.php
      ▶ ■ bootstrap
      config
                                         //Validate Your Data
      database
      public
                                         $request->validate([
      'product_name'=>'required',
       ▶ 🛒 js
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                                                                                                                              ▼ + □ û ∧ ×
                          PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                              1: cmd
       sass

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        layouts
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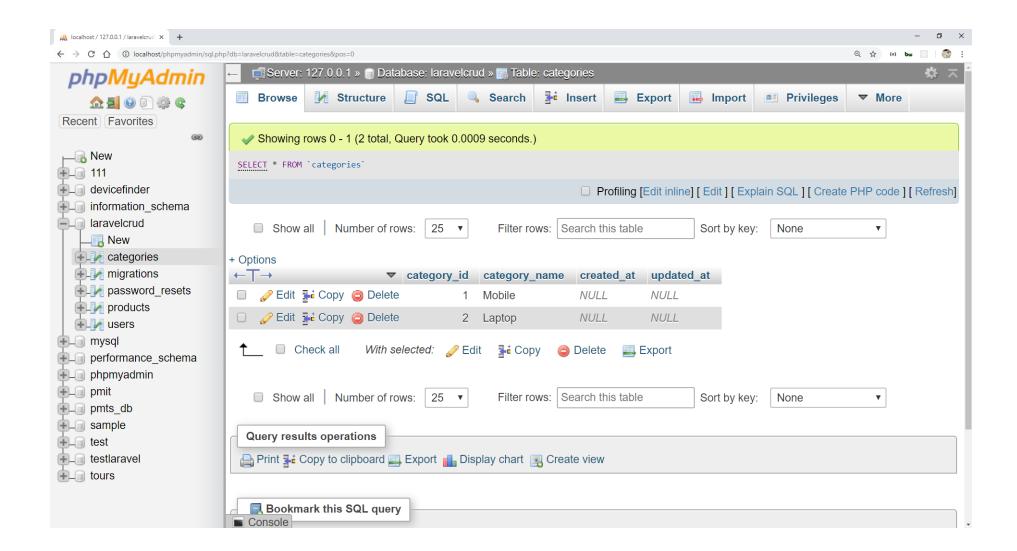




```
File Edit Selection View Go Debug Terminal Help
                                          create.blade.php - laravelcrud - Visual Studio Code
            Name
¥
                <input type='text' name='product_name' placeholder='Enter Product Name' required>
(%)
            Name
<select name="category_id" >
                      <option value="" selected disabled>Select</option>
                        @foreach($categories_array as $categories)
                        <option value="{{$categories->category_id}}"> {{$categories->category_name}}</option>
                        @endforeach
     32
                </select>
             Details
                <input type='text' name='product_details' placeholder='Enter Product Details' required > 
             Price
                ⊗ 0 A 0
                                                                                 Ln 32, Col 9 Spaces: 4 UTF-8 CRLF PHP 🙂 🔔
```

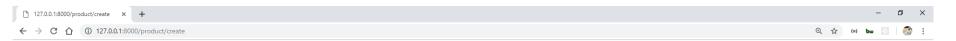








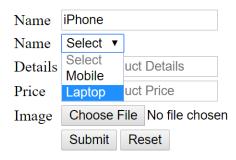




Laravel CURD

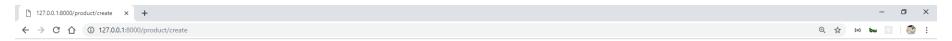
Add | View

Add Product









Laravel CURD

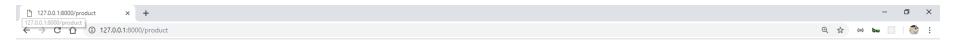
Add | View

Add Product

Name	iPhone		
Name	Mobile ▼		
Details	iPhoneXR		
Price	85000		
Image	Choose I	File ipho	nexr.jpg
	Submit	Reset	







Laravel CURD

Add | View

ID	Product Name	Product Price	Product Quantity	Product Image	Category	Action	
2	iPhone	iPhoneXR	85000		Mobile	Edit	Delete





```
ProductController.php - laravelcrud - Visual Studio Code
      ProductController.php x index.blade.php
                                                                                                                                                III ...
2
             class ProductController extends Controller
Y
                   * Display a listing of the resource.
* @return \Illuminate\Http\Response
public function index()
                    //Join Query
                   $productarray = Product::join('categories', 'products.category_id', '=', 'categories.category_id')
                                     ->select('products.*', 'categories.category_name')
        28
                                   ->get();
                     return view('product.index', compact('productarray'));
                   * Show the form for creating a new resource.
       PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                                 1: php
                                                                                                                                  ▼ + □ · · · ×
       [Tue Feb 26 08:37:22 2019] 127.0.0.1:52117 [200]: /uploads/iphonexr.jpg
       [Tue Feb 26 08:37:22 2019] 127.0.0.1:52118 [200]: /favicon.ico
       [Tue Feb 26 08:37:24 2019] 127.0.0.1:52124 [200]: /favicon.ico
⊗ 0 ∧ 0
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```





```
index.blade.php - laravelcrud - Visual Studio Code
                                           index.blade.php x

▲ OPEN EDITORS

       ProductController..
      x index.blade.php r...
                                      @foreach($productarray as $product)
                                Kernel.php
                                    {{$product->product_id}}
      Providers
                                    {{$product->product_name}}
        Category.php
                                    {{$product->product_details}}
        Product.php
                                    {{$product->product_price}}
        User.php
     ▶ ■ bootstrap
                                 <img src="{{url('uploads/'.$product->product_image)}}" width='50'>
     config
      ▶ ■ database
                                 {{$product->category_name}}
     🕨 🌃 public
                         43
      <a href="{{ route('product.edit', $product->product_id)}}" class='button'>Edit</a>
      ▶ 🛒 js
      lang
      sass
                                      <form action="{{ route('product.destroy', $product->product_id)}}" method="post">
       @csrf
       layouts
                                           @method('DELETE')
       product
                                            <button type="submit" class='button'>Delete</button>
          create.blade.p..
                                      </form>
          edit.blade.php
                                    index.blade.p...
                                   welcome.blade...
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                        [Tue Feb 26 08:37:22 2019] 127.0.0.1:52117 [200]: /uploads/iphonexr.jpg
     tests
                        [Tue Feb 26 08:37:22 2019] 127.0.0.1:52118 [200]: /favicon.ico
     vendor
                        [Tue Feb 26 08:37:24 2019] 127.0.0.1:52124 [200]: /favicon.ico
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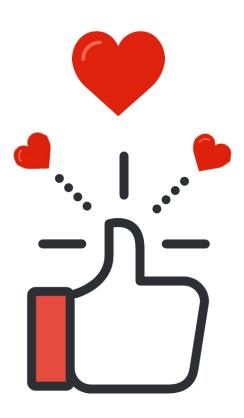
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