

--- Module 16 Assignment ---

Task 1:

Open command-line interface

cd Documents

laravel new MigrationAssignment

cd MigrationAssignment

Task 2:

php artisan make:migration create_products_table --create=products

```
<?php
```

```
use Illuminate\Database\Migrations\Migration;
```

```
use Illuminate\Database\Schema\Blueprint;
```

```
use Illuminate\Support\Facades\Schema;
```

```
class CreateProductsTable extends Migration
```

```
{
```

```
    public function up()
```

```
    {
```

```
        Schema::create('products', function (Blueprint $table) {
```

```
            $table->increments('id');
```

```
            $table->string('name');
```

```
            $table->decimal('price', 8, 2);
```

```
            $table->text('description');
```

```
            $table->timestamps();
```

```
        });
```

```

    }

    public function down()
    {
        Schema::dropIfExists('products');
    }
}

```

php artisan migrate

Task 3:

php artisan migrate

Task 4:

1. Locate the migration file named "create_products_table" inside the database/migrations directory of your Laravel project.
2. Open the migration file, which should have a name similar to database/migrations/<timestamp>_create_products_table.php.
3. Inside the up method of the migration file, add the following line of code below the existing table columns:

```
$table->integer('quantity')->nullable();
```

php artisan migrate

Task 5:

To create a new migration file named "add_category_to_products_table" that adds a new column called "category" to the "products" table

php artisan make:migration add_category_to_products_table --table=products

```
<?php
```

```
use Illuminate\Database\Migrations\Migration;
```

```
use Illuminate\Database\Schema\Blueprint;
```

```
use Illuminate\Support\Facades\Schema;
```

```
class AddCategoryToProductsTable extends Migration
```

```
{
```

```
    public function up()
```

```
    {
```

```
        Schema::table('products', function (Blueprint $table) {
```

```
            $table->string('category', 50)->after('description')->nullable();
```

```
        });
```

```
    }
```

```
    public function down()
```

```
    {
```

```
        Schema::table('products', function (Blueprint $table) {
```

```
            $table->dropColumn('category');
```

```
        });
```

```
    }
```

```
}
```

```
php artisan migrate
```

Task 6:

```
php artisan migrate
```

Task 7:

to create a new migration file named "create_orders_table" that will create a table called "orders" in the database with the specified columns

```
php artisan make:migration create_orders_table --create=orders
```

```
<?php
```

```
use Illuminate\Database\Migrations\Migration;
```

```
use Illuminate\Database\Schema\Blueprint;
```

```
use Illuminate\Support\Facades\Schema;
```

```
class CreateOrdersTable extends Migration
```

```
{
```

```
    /**
```

```
     * Run the migrations.
```

```
     *
```

```
     * @return void
```

```
    */
```

```
    public function up()
```

```
    {
```

```
        Schema::create('orders', function (Blueprint $table) {
```

```
            $table->increments('id');
```

```
            $table->unsignedInteger('product_id');
```

```
            $table->integer('quantity');
```

```
            $table->timestamps();
```

```
        $table->foreign('product_id')->references('id')->on('products');  
    });  
}  
public function down()  
{  
    Schema::dropIfExists('orders');  
}  
}
```

php artisan migrate

Task 8:

To run the migration and create the "orders" table in the database for Laravel project

php artisan migrate