

--- 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