Lab 8

Working with Databases –

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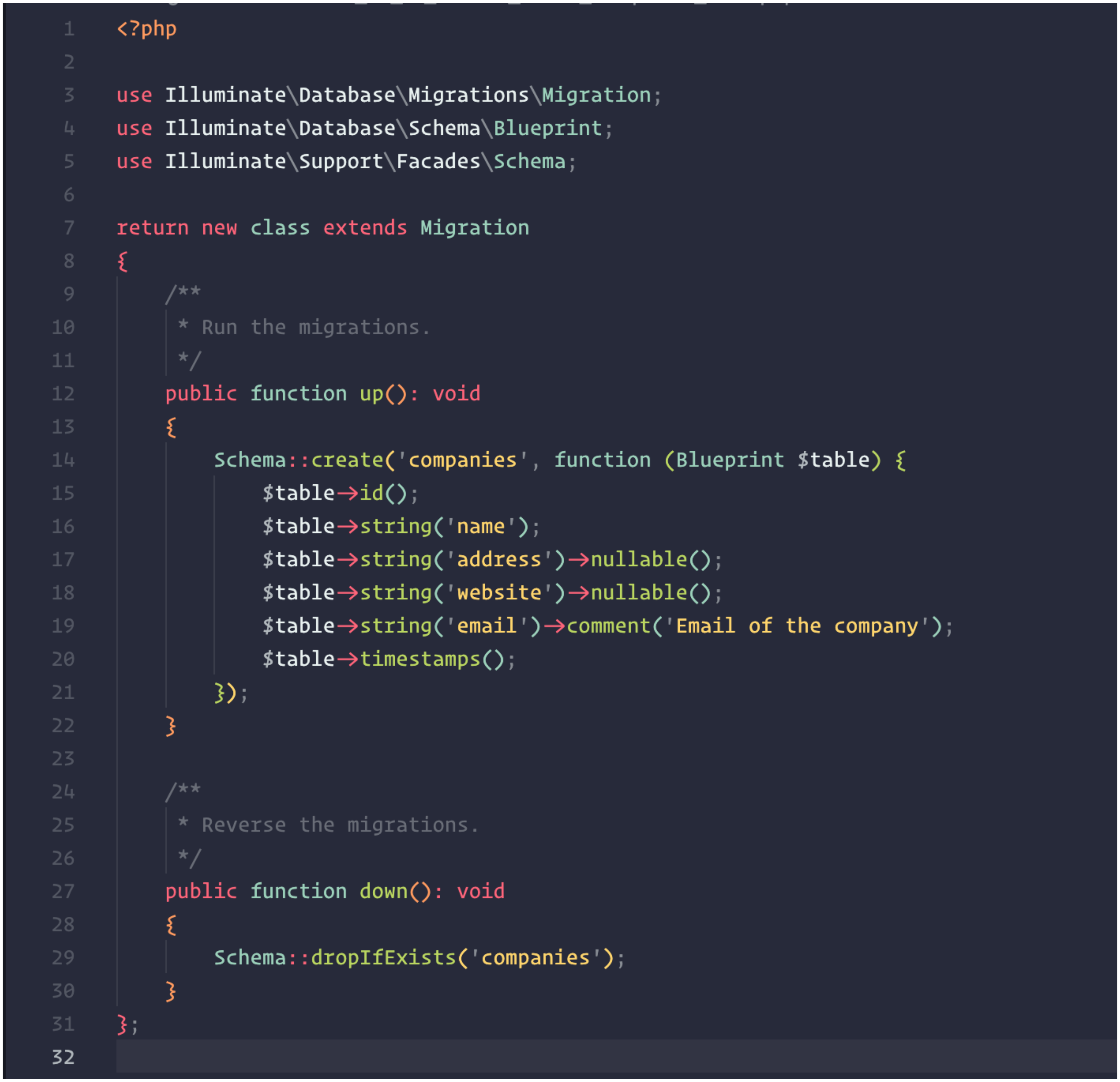
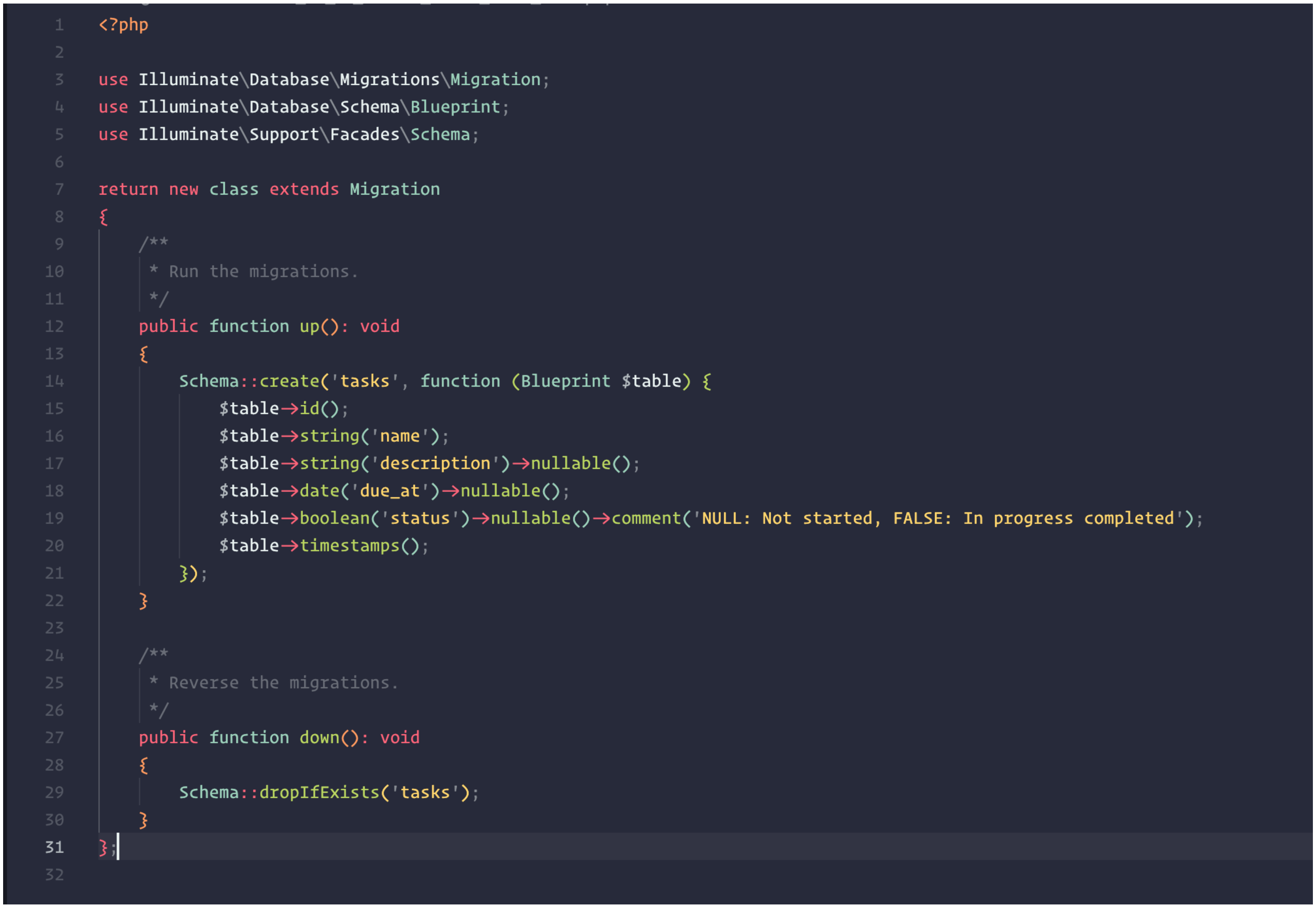
1. Create companies Table



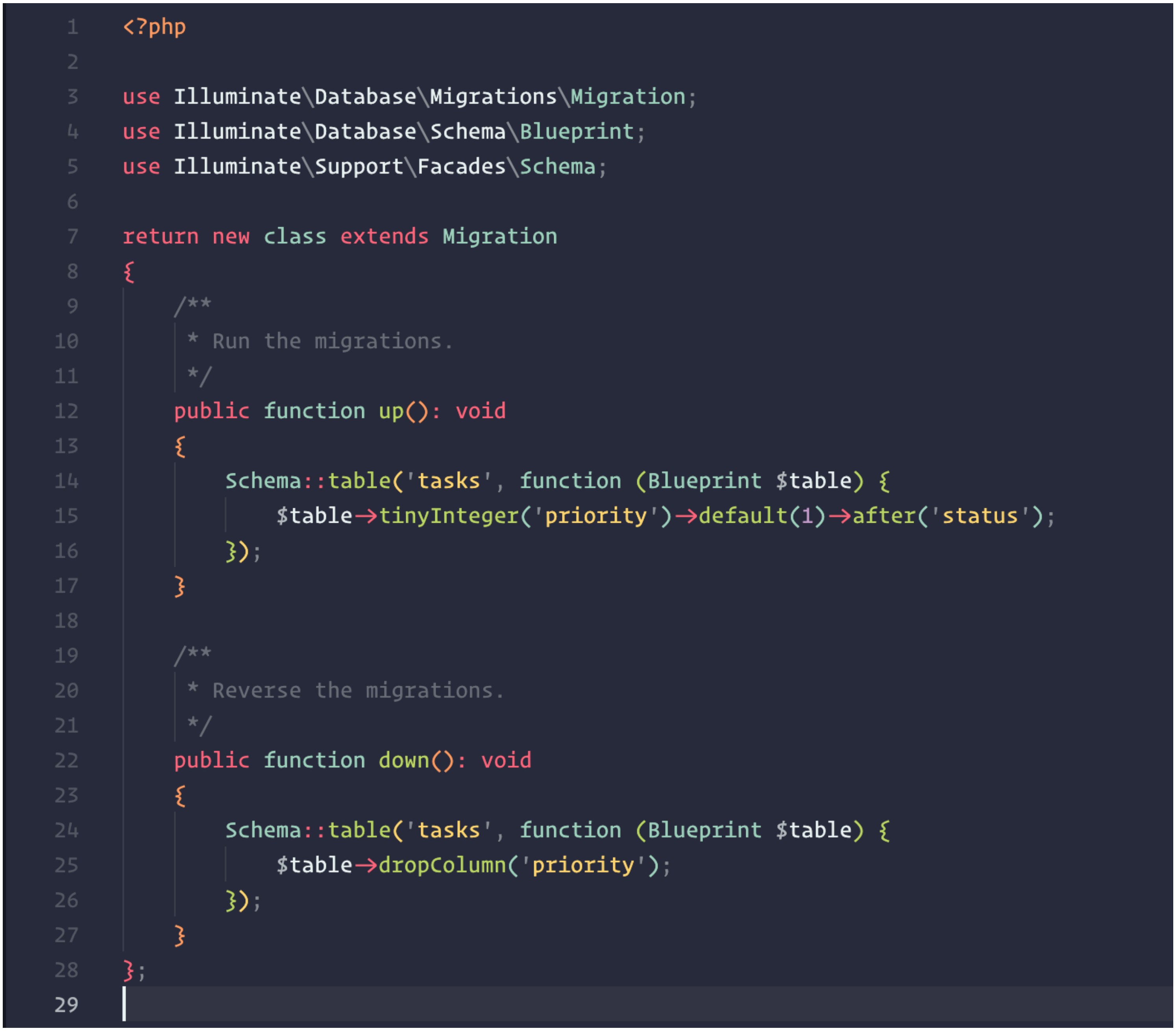
```php
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

return new class extends Migration
{
    /**
     * Run the migrations.
     */
    public function up(): void
    {
        Schema::create('companies', function (Blueprint $table) {
            $table->id();
            $table->string('name');
            $table->string('address')->nullable();
            $table->string('website')->nullable();
            $table->string('email')->comment('Email of the company');
            $table->timestamps();
        });
    }

    /**
     * Reverse the migrations.
     */
    public function down(): void
    {
        Schema::dropIfExists('companies');
    }
};

```

2. Create tasks Table



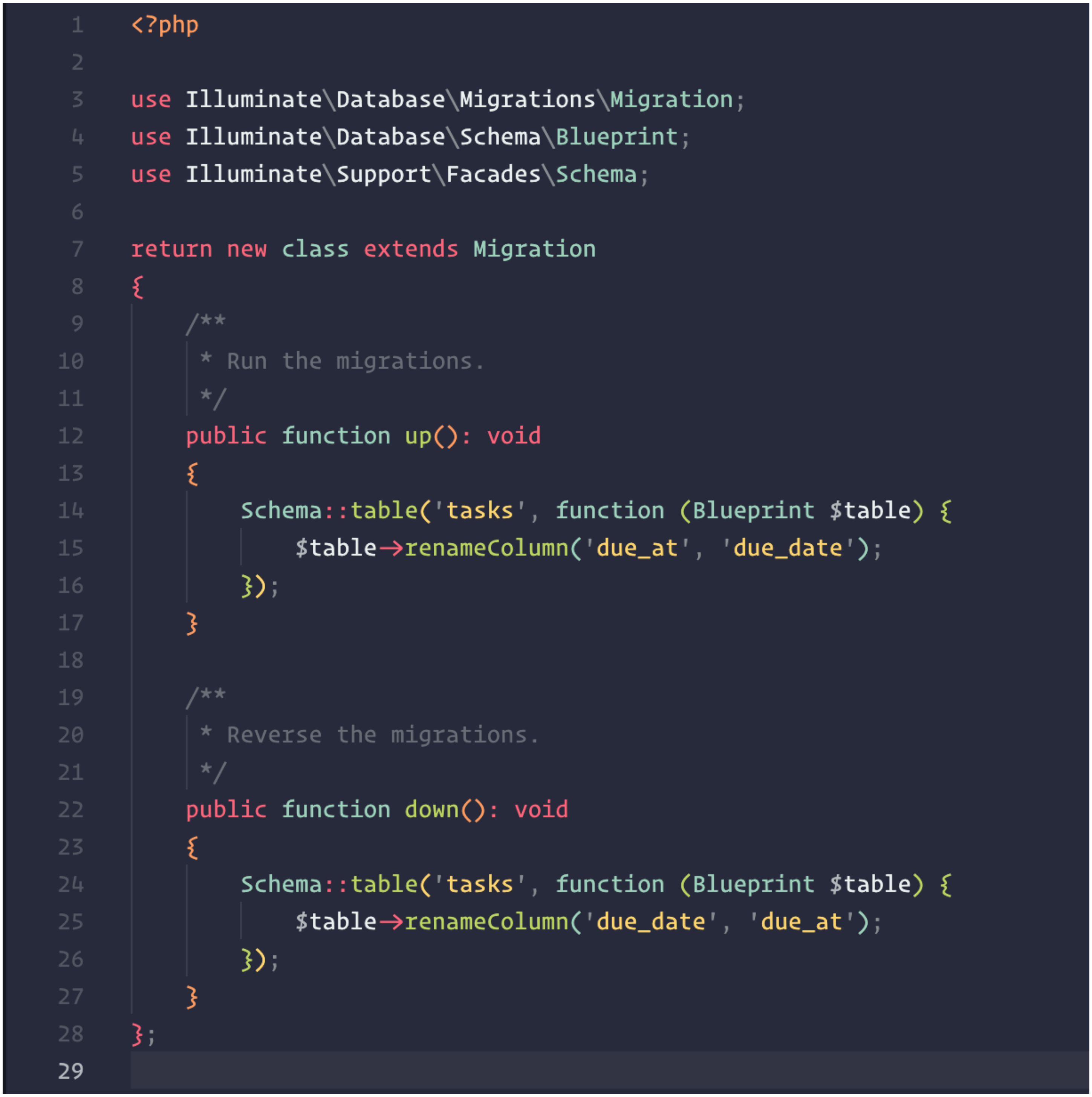
```php
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

return new class extends Migration
{
    /**
     * Run the migrations.
     */
    public function up(): void
    {
        Schema::create('tasks', function (Blueprint $table) {
            $table->id();
            $table->string('name');
            $table->string('description')->nullable();
            $table->date('due_at')->nullable();
            $table->boolean('status')->nullable()->comment('NULL: Not started, FALSE: In progress completed');
            $table->timestamps();
        });
    }

    /**
     * Reverse the migrations.
     */
    public function down(): void
    {
        Schema::dropIfExists('tasks');
    }
};

```

3. Add priority Columns to tasks Table



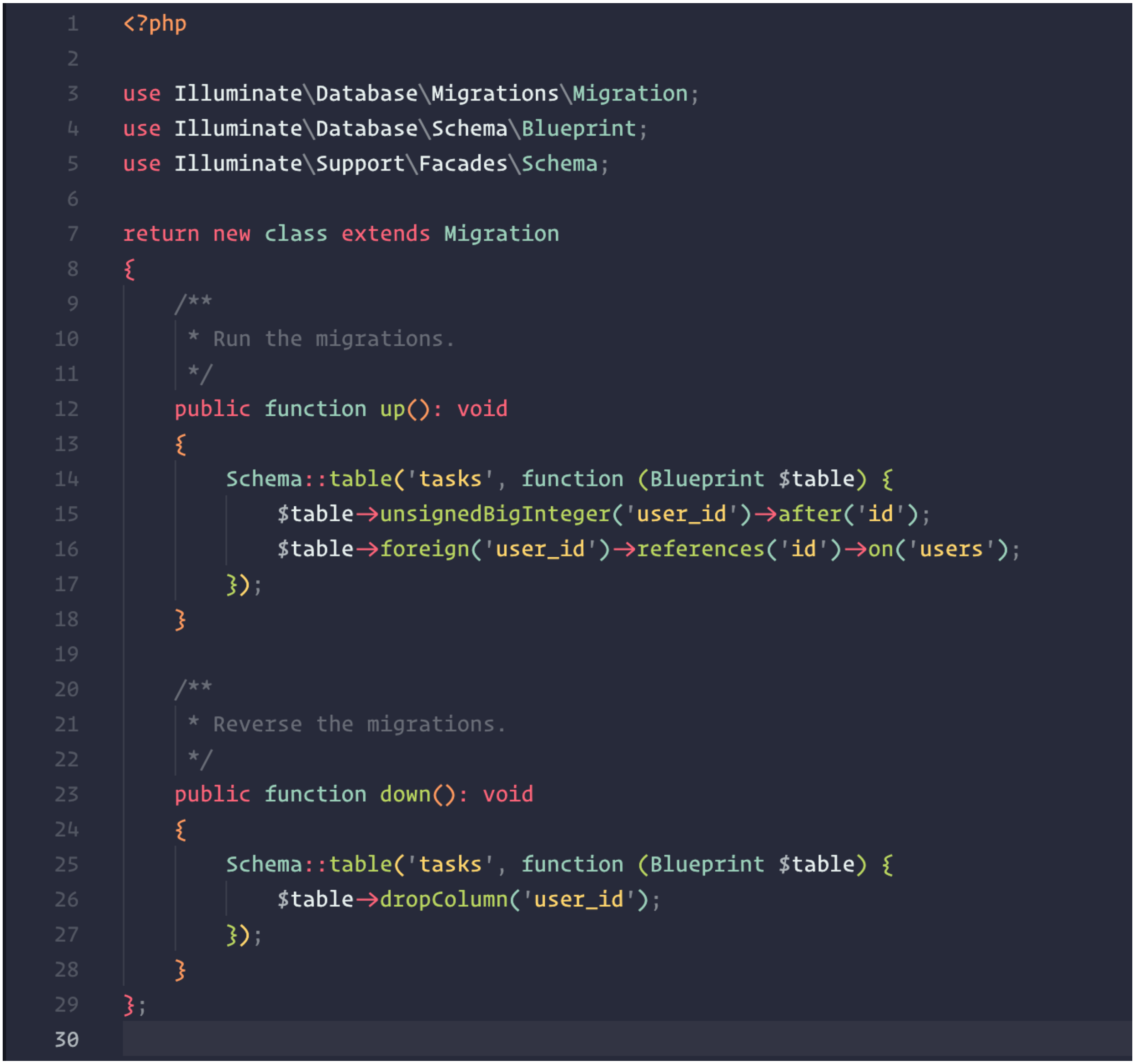
```php
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

return new class extends Migration
{
    /**
     * Run the migrations.
     */
    public function up(): void
    {
        Schema::table('tasks', function (Blueprint $table) {
            $table->tinyInteger('priority')->default(1)->after('status');
        });
    }

    /**
     * Reverse the migrations.
     */
    public function down(): void
    {
        Schema::table('tasks', function (Blueprint $table) {
            $table->dropColumn('priority');
        });
    }
};

```

4. Rename due_at Column to due_date in tasks Table



```php
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

return new class extends Migration
{
    /**
     * Run the migrations.
     */
    public function up(): void
    {
        Schema::table('tasks', function (Blueprint $table) {
            $table->renameColumn('due_at', 'due_date');
        });
    }

    /**
     * Reverse the migrations.
     */
    public function down(): void
    {
        Schema::table('tasks', function (Blueprint $table) {
            $table->renameColumn('due_date', 'due_at');
        });
    }
};

```

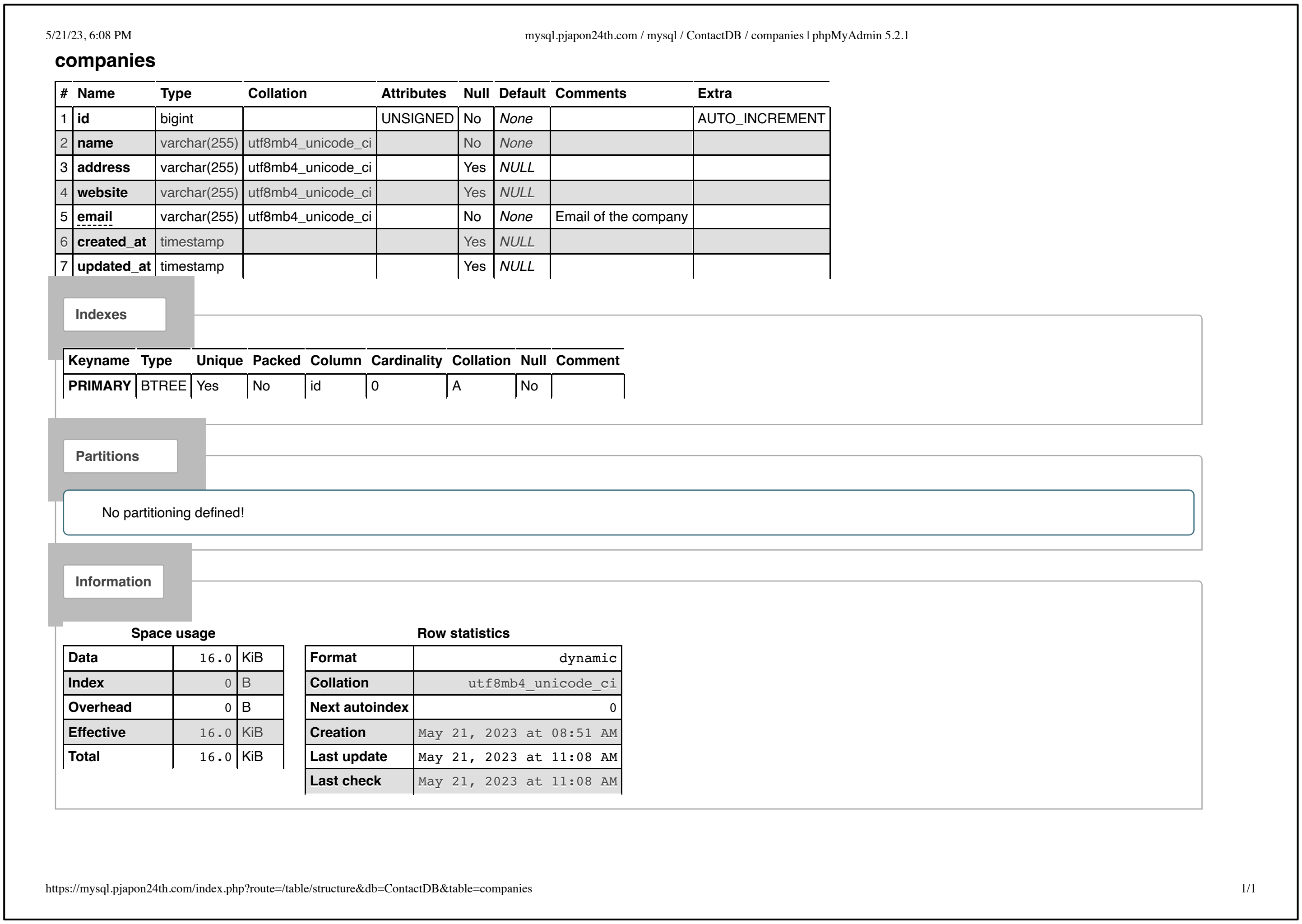
5. Create relationship via user_id between users table and tasks table



```php
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

return new class extends Migration
{
    /**
     * Run the migrations.
     */
    public function up(): void
    {
        Schema::table('tasks', function (Blueprint $table) {
            $table->unsignedBigInteger('user_id')->after('id');
            $table->foreign('user_id')->references('id')->on('users');
        });
    }

    /**
     * Reverse the migrations.
     */
    public function down(): void
    {
        Schema::table('tasks', function (Blueprint $table) {
            $table->dropColumn('user_id');
        });
    }
};

```

6. ContactDB Table

- Companies table



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companies

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	**id**	bigint		UNSIGNED	No	*None*		AUTO_INCREMENT
2	**name**	varchar(255)	utf8mb4_unicode_ci		No	*None*		
3	**address**	varchar(255)	utf8mb4_unicode_ci		Yes	*NULL*		
4	**website**	varchar(255)	utf8mb4_unicode_ci		Yes	*NULL*		
5	**email**	varchar(255)	utf8mb4_unicode_ci		No	*None*	Email of the company	
6	**created_at**	timestamp			Yes	*NULL*		
7	**updated_at**	timestamp			Yes	*NULL*		

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	id	0	A	No	

Partitions

No partitioning defined!

Information

Space usage

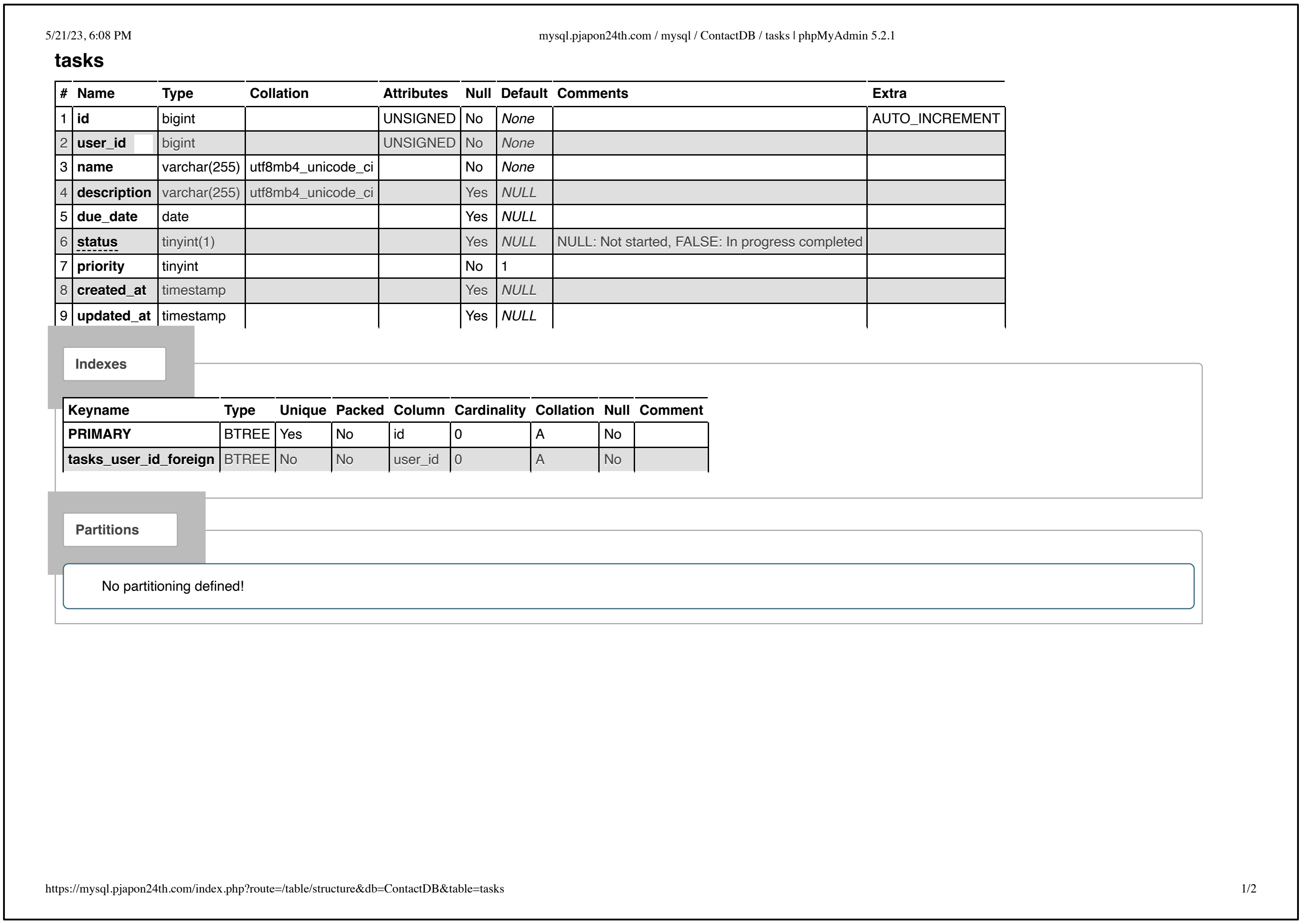
Data	16.0	KiB
Index	0	B
Overhead	0	B
Effective	16.0	KiB
Total	16.0	KiB

Row statistics

Format	dynamic
Collation	utf8mb4_unicode_ci
Next autoindex	0
Creation	May 21, 2023 at 08:51 AM
Last update	May 21, 2023 at 11:08 AM
Last check	May 21, 2023 at 11:08 AM

https://mysql.pjapon24th.com/index.php?route=/table/structure&db=ContactDB&table=companies 1/1

- Tasks table



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tasks

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	**id**	bigint		UNSIGNED	No	*None*		AUTO_INCREMENT
2	**user_id**	bigint		UNSIGNED	No	*None*		
3	**name**	varchar(255)	utf8mb4_unicode_ci		No	*None*		
4	**description**	varchar(255)	utf8mb4_unicode_ci		Yes	*NULL*		
5	**due_date**	date			Yes	*NULL*		
6	**status**	tinyint(1)			Yes	*NULL*	NULL: Not started, FALSE: In progress completed	
7	**priority**	tinyint			No	1		
8	**created_at**	timestamp			Yes	*NULL*		
9	**updated_at**	timestamp			Yes	*NULL*		

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	id	0	A	No	
tasks_user_id_foreign	BTREE	No	No	user_id	0	A	No	

Partitions

No partitioning defined!

https://mysql.pjapon24th.com/index.php?route=/table/structure&db=ContactDB&table=tasks 1/2