

<https://developers.google.com/chart/interactive/docs/gallery/piechart>

Php artisan make:migration student -m

```
<?php
use Illuminate\Support\Facades\Schema;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Database\Migrations\Migration;
class CreateStudentsTable extends Migration
{
    /**
     * Run the migrations.
     *
     * @return void
     */
    public function up()
    {
        Schema::create('students', function (Blueprint $table) {
            $table->bigIncrements('id');
            $table->string('name');
            $table->string('city');
            $table->timestamps();
        });
    }
    /**
     * Reverse the migrations.
     *
     * @return void
     */
    public function down()
    {
        Schema::dropIfExists('students');
    }
}
```

Next go to database and add insert some data

Server: 127.0.0.1 » Database: pie-chart » Table: students

Options: ☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

	id	name	city	created_at	updated_at
<input type="checkbox"/> Edit Copy Delete	1	amit	bokaro	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	2	amit	bokaro	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	3	bittu	bokaro	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	4	bittu	bokaro	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	5	sonu	delhi	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	6	sonu	delhi	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	7	sonu	delhi	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	8	sonu	delhi	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	9	sonu	delhi	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	10	sonu	delhi	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	11	narayan	Mumbai	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	12	narayan	Mumbai	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	13	Sam	Mumbai	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	14	Sam	Mumbai	NULL	NULL

Check all | With selected: Edit Copy Delete Export

Next to create Route

```
<?php
use App\Http\Controllers\Website;
/*
|-----
| Web Routes
|-----
|
| Here is where you can register web routes for your application. These
| routes are loaded by the RouteServiceProvider within a group which
| contains the "web" middleware group. Now create something great!
|
*/
Route::get('/', function () {
    return view('welcome');
});
// Route::get('echarts', 'EchartController@echart');
Route::get('/pie', [Website::class, 'index']);
```

Next to create view file

C:\xampp\htdocs\testing\resources\views\chart.blade.php

```
<html>
  <head>
    <script type="text/javascript" src="https://www.gstatic.com/charts/loader.js"
  ></script>
    <script type="text/javascript">
      google.charts.load("current", {packages:["corechart"]});
      google.charts.setOnLoadCallback(drawChart);
      function drawChart() {
        var data = google.visualization.arrayToDataTable([
          ['Task', 'Hours per Day'],
          <?php
            echo $chartData
          ?>
        ]);
        var options = {
          title: 'Gender Chart',
          pieHole: 0.4,
        };
        var chart = new google.visualization.PieChart(document.getElementById('do
nutchart'));
        chart.draw(data, options);
      }
    </script>
  </head>
  <body>
    <div id="donutchart" style="width: 900px; height: 500px;"></div>
  </body>
</html>
```

GO to database and add

select count(*) as total_city, city from students group by city

phpMyAdmin

Server: 127.0.0.1 » Database: pie-chart » Table: students

Browse Structure SQL Search Insert Export Import

Recent Favorites

Run SQL query/queries on table pie-chart.students:

```
1 select count(*) as total_city, city from students group by city
```

id
name
city
create
update

SELECT * SELECT INSERT UPDATE DELETE Clear Format <<

Get auto-saved query

☐ Bind parameters

Bookmark this SQL query:

Now to its counting ..

The screenshot shows the phpMyAdmin interface. On the left is a sidebar with a list of databases and tables. The main area displays a SQL query: `select count(*) as total_city, city from students group by city`. Below the query, there are controls for 'Show all', 'Number of rows' (set to 25), and a 'Filter rows' search box. The query results are shown in a table with columns 'total_city' and 'city'. The results are:

	total_city	city
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	bokaro
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	delhi
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	Mumbai

Below the table, there are options to 'Check all', 'With selected' (Edit, Copy, Delete, Export), and another set of 'Show all', 'Number of rows', and 'Filter rows' controls. At the bottom, there is a 'Query results operations' section with buttons for 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'.

Next to create Controller

Php artisan make:controller WebsiteController -r

```
<?php
namespace App\Http\Controllers;
use Illuminate\Support\Facades\DB;
use Log;

use Illuminate\Http\Request;
class Website extends Controller
{
    public function index(){

        $result = DB::select(DB::raw("select count(*) as total_city, city from students group by city"));

        $chartData="";
        foreach($result as $list){
            $chartData.="['".$list->city."', ".$list->total_city."],";
        }
    }
}
```

```
}  
    }  
    $arr['chartData']=rtrim($chartData,"");  
    return view('chart', $arr);  
}
```

← → ↻ ⓘ 127.0.0.1:8000/pie

City Ratio Chart

