Php artisan make:migration student -m

```php
<?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

Next to create Route

```php
<?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
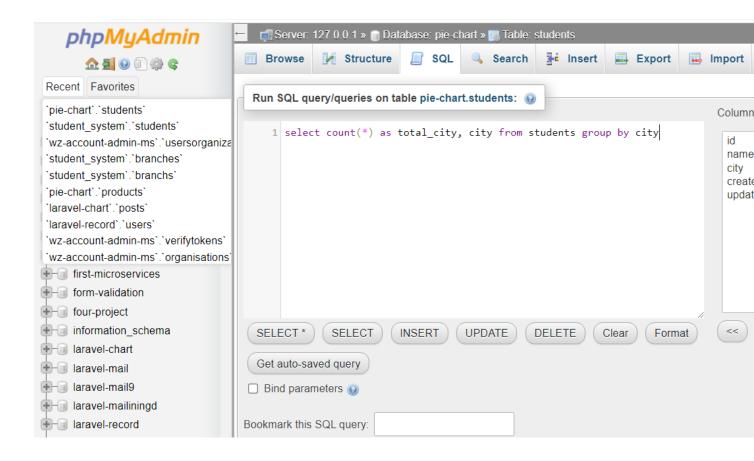## C:\xampp\htdocs\testing\resources\views\chart.blade.php

```html
<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('donutchart'));
        chart.draw(data, options);
      }
    </script>
  </head>
  <body>
    <div id="donutchart" style="width: 900px; height: 500px;"></div>
  </body>
</html>
```
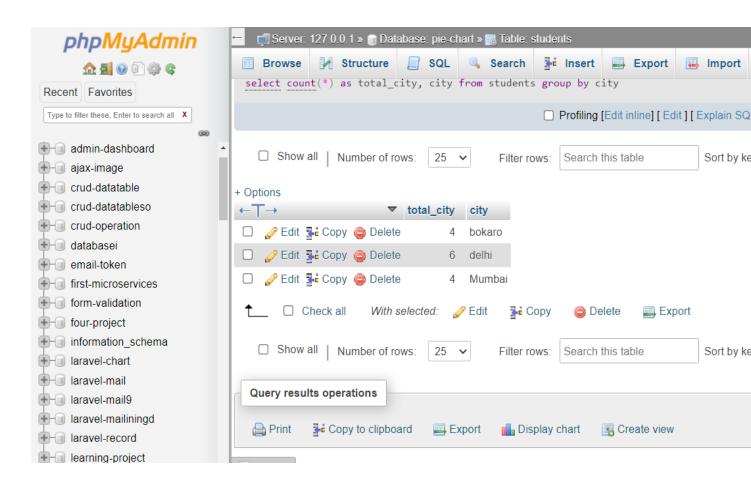
GO to database and add

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

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

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

Column

id
name
city
create
updat

SELECT * | SELECT | INSERT | UPDATE | DELETE | Clear | Format | <<

Get auto-saved query

☐ Bind parameters

Bookmark this SQL query:

Now to its counting ..

Next to create Controller

Php artisan make:controller WebsiteController -r

```php
<?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 st
udents group by city"));

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

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

City Ratio Chart

● bokaro
● delhi
● Mumbai

28.6%

28.6%

42.9%