topic: laravel database supports: mariadb, mysql, postgresql, sqlite & ms sql server

migration cheat-sheet

most commonly used data types of mysql in laravel

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| --- |
| int  bigint  decimal  date  char->varchar  varchar  text  mediumtext  longtext |

important methods:

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| --- |
| ->nullable() ->unsigned(false) |

note: Consider this number: 123456789.12345 here M is 14 and D is 5 then based on this principle you can set DECIMALS(M,D) for each column based on Their expected maximum values.

ex: an amont is: 10000000.34 rupee so for decimal : decimal(8,2)

**Note**: after creation table via migration, you can modify column size via another migration, and be sure your DB::statement(“ raw SQL query”) will be mentioned within up() function in migration.

ex: i have create a migration file as name “table1\_modify”

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| --- |
| public function up(): void  {  DB::statement("ALTER TABLE table1 MODIFY enrollno bigint(20)");  DB::statement("ALTER TABLE table1 MODIFY name varchar(200)");  DB::statement("ALTER TABLE table1 MODIFY age int(100)");  DB::statement("ALTER TABLE table1 MODIFY fees decimal(8,2)");  DB::statement("ALTER TABLE table1 MODIFY gender varchar(1)");  } |

according to me, try to change columns values like int,bigint,varchar & decimal.

**Topic**: api series

make a simple get api with paramaters: <https://www.youtube.com/watch?v=ExmPfmVwCuo&list=PL8p2I9GklV45xlp9M1NKOqwJxDAXBrCuf&index=4>

|  |  |
| --- | --- |
| api without null params | api with null params |
| Route::get('/studentinfo/{id}',[studentsController::class,'getData']);  class studentsController extends Controller  {  public function getData($id){  return Students::find($id);  }  } | Route::get('/studentinfo/{id}',[studentsController::class,'getData']);  class studentsController extends Controller  {  public function getData($id=null){  return Students::find($id);  }  } |

make a post api: <https://www.youtube.com/watch?v=tYW0OPwjNRg&list=PL8p2I9GklV45xlp9M1NKOqwJxDAXBrCuf&index=6>

|  |
| --- |
| Route::post('/addstudentinfo',[studentsController::class,'setData']);  public function setData(Request $request){  $name = $request['name'];  $ph = $request['phone'];  $age = $request['age'];  $stu = new Students;  $stu->name = $name;  $stu->age = $age;  $stu->phone = $ph;  $stu->save();    return "user data stored!";  } |

make a put api: update: <https://www.youtube.com/watch?v=RRIhUQLpxd0&list=PL8p2I9GklV45xlp9M1NKOqwJxDAXBrCuf&index=6>

|  |
| --- |
| Route::put('/updatestudentinfo',[studentsController::class,'updateData']);  public function updateData(Request $request){  $id = $request['id'];  $name = $request['name'];  $ph = $request['phone'];  $age = $request['age'];    $stu = Students::find($id);  $stu->name = $name;  $stu->age = $age;  $stu->phone = $ph;  $stu->save();  return "data updated!";  } |

make a delete api: <https://www.youtube.com/watch?v=wXLLNMDU5fs&list=PL8p2I9GklV45xlp9M1NKOqwJxDAXBrCuf&index=8>

|  |
| --- |
| Route::delete('/deleteudentinfo',[studentsController::class,'deleteData']);  public function deleteData(Request $request){  $id = $request['id'];  $stu = Students::find($id);  $stu->delete();    return "record deleted!";  } |

**named routes**: when you routes path is very long, that time we can use named roues.

|  |
| --- |
| Route::get('/user/profile', function () {  // ...  })->name('profile'); |