

1. Laravel's query builder is a fluent interface for creating and executing database queries in PHP. Allows to interact with our database. Provides a wide range of methods. Highly flexible easy to use. Used to perform complex queries. Well-documented.

2. \$posts = DB::table('posts')->select('excerpt', 'description')->get();
print_r(\$posts);

3. The `distinct()` method in Laravel's query builder is used to retrieve only unique values from a column. It removes duplicate values and ensures that each value appears only once in the output.

When used in conjunction with the `select()` method, the `distinct()` method is applied to the specified columns to retrieve unique values from those columns. It filters out duplicate values.

Example:

```
$categories = DB::table('products')->select('category')->distinct()->get();  
echo $categories;
```

4. \$posts = DB::table('posts')->where('id', 2)->first();
echo \$posts->description;

5. \$posts = DB::table('posts')->where('id', 2)->pluck('description');
print_r(\$posts);

6. The `first()` and `find()` methods in Laravel's query builder are both used to retrieve a single record from the database.

`first()` returns the first record found in the database. If no matching model exist, it returns null.

`find($id)` takes an id and returns a single model. If no matching model exist, it returns null.

7. \$posts = DB::table('posts')->pluck('title');
print_r(\$posts);

```
8. $result = DB::table('posts')->insert([
    'title' => 'X',
    'slug' => 'X',
    'excerpt' => 'excerpt',
    'description' => 'description',
    'is_published' => true,
    'min_to_read' => 2
]);
print_r($result);
```

```
9. $affectedRows = DB::table('posts')->where('id', 2)->update([
    'excerpt' => 'Laravel 10',
    'description' => 'Laravel 10'
]);
print_r($affectedRows);
```

```
10. $affectedRows = DB::table('posts')->where('id', 3)->delete();
print_r($affectedRows);
```

11. The aggregate methods in Laravel's query builder used to perform calculations on a specific column or set of columns in a database table. These methods allow you to retrieve aggregated data based on specific criteria.

count:

The count method is used to retrieve the number of records that match a specific condition or the total number of records in a table.

```
$count = DB::table('users')->where('status', 'active')->count();
echo $count;
```

sum:

The sum method is used to calculate the sum of a column's values.

```
$totalSales = DB::table('orders')->sum('amount');

echo $totalSales;
```

avg:

The avg method is used to calculate the average value of a column.

```
$averageRating = DB::table('reviews')->avg('rating');

echo $averageRating;
```

max:

The max method is used to retrieve the maximum value of a column.

```
$highestScore = DB::table('scores')->max('score');

echo $highestScore;
```

min:

The min method is used to retrieve the minimum value of a column.

```
$lowestTemperature = DB::table('temperatures')->min('temperature');

echo $lowestTemperature;
```

12. The whereNot method is used to add a "not equal" condition to the query. It allows to retrieve records where a specific column's value is not equal to a given value or an array of values.

```
$users = DB::table('users')->whereNot('status', '=', 'inactive')->get();

echo $users;
```

13. exists:

The exists method is used to check if there are any records that match a specific condition.

```
$exists = DB::table('users')->where('status', 'active')->exists();
```

```
echo $exists;
```

doesntExist:

The `doesntExist` method is used to check if there are no records that match a specific condition.

```
$doesntExist = DB::table('users')->where('status', 'deleted')->doesntExist();  
echo $doesntExist;
```

14. `$posts = DB::table('posts')->whereBetween('min_to_read', [1, 5])->get();
print_r($posts);`

15. `$affectedRows = DB::table('posts')->where('id', 3)->increment('min_to_read');
print_r($affectedRows);`