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*** Assignment-17 ***
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Question -1:

Answer: Laravel's query builder is a fluent and expressive interface provided by Laravel framework to interact with databases. It allows developers to build database queries using a chainable set of methods, providing a more readable and intuitive syntax compared to writing raw SQL queries. The query builder abstracts the underlying database system, allowing developers to write database-agnostic code.

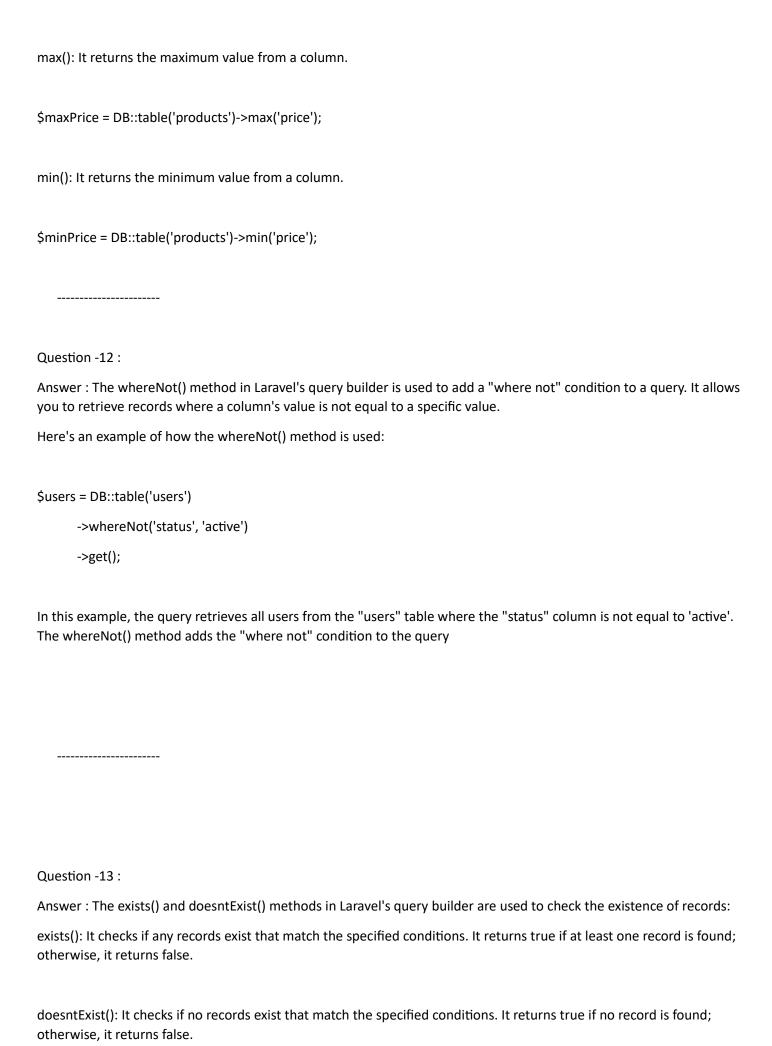
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Question -2:
Answer:
$posts = DB::table('posts')
      ->select('excerpt', 'description')
      ->get();
print_r($posts);
Question -3:
Answer:
$users = DB::table('users')
      ->select('name')
      ->distinct()
      ->get();
Question -4:
Answer:
$post = DB::table('posts')
       ->where('id', 2)
      ->first();
if ($post) {
  echo $post->description;
}
```

Question -5:
Answer:
\$posts = DB::table('posts')
->where('id', 2)
->pluck('description');
print_r(\$posts);
Question -6:
Answer:
The first() and find() methods in Laravel's query builder are used to retrieve single records, but they have some differences in their usage:
The first() method retrieves the first record that matches the specified conditions from the database table. It is commonly used when you want to retrieve a single record based on certain criteria, such as retrieving the first user with a specific role. The first() method returns a single object representing the record or null if no record is found.
The find() method retrieves a record by its primary key value. It is specifically designed to fetch a record based on its primary key. The find() method returns a single object representing the record or null if no record is found.
Question -7:
Answer:
\$posts = DB::table('posts')
->pluck('title');
print_r(\$posts);

```
Question -8:
Answer:
$result = DB::table('posts')->insert([
  'title' => 'X',
  'slug' => 'X',
  'excerpt' => 'excerpt',
  'description' => 'description',
  'is_published' => true,
  'min_to_read' => 2
]);
echo $result;
Question -9:
Answer:
$affectedRows = DB::table('posts')
         ->where('id', 2)
         ->update([
           'excerpt' => 'Laravel 10',
           'description' => 'Laravel 10'
         ]);
echo $affectedRows;
```

Question -10:
Answer:
\$affectedRows = DB::table('posts')
->where('id', 3)
->delete();
echo \$affectedRows;

Question -11:
Answer: In Laravel's query builder, the aggregate methods count(), sum(), avg(), max(), and min() are used to perform aggregate operations on a column or a set of columns in a database table. Here are the explanations and examples for each:
count(): It returns the number of records in a table or the number of records that match a specific condition.
<pre>\$totalUsers = DB::table('users')->count();</pre>
\$activeUsers = DB::table('users')->where('active', true)->count();
sum(): It returns the sum of the values in a column.
\$totalSales = DB::table('orders')->sum('amount');
avg(): It returns the average value of a column.
\$averageRating = DB::table('reviews')->avg('rating');



based on their existence

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

Question -15:
Answer:
\$affectedRows = DB::table('posts')
->where('id', 3)
->increment('min_to_read');
echo \$affectedRows;

These methods are useful when you want to determine if records exist before performing certain actions or conditions