

# Documentation: Eloquent and Query Builder Methods

## Eloquent Methods

`count()`

```
1 Model::count();
```

- **Purpose:** Retrieves the total number of records in a table.
- **Returns:** Integer representing the number of records.

`withCount()`

```
1 Model::withCount('relation')->get();
```

- **Purpose:** Adds a count of a related model to the query results.
- **Returns:** Collection with an additional attribute representing the count.

## Query Builder Methods

`DB::table()`

```
1 DB::table('table_name')->get();
```

- **Purpose:** Begins a query using the Query Builder instead of Eloquent models.
- **Returns:** Collection of results.

## join()

```
1 DB::table('table1')->join('table2', 'table1.id', '=', 'table2  
    .foreign_id');
```

- **Purpose:** Performs an SQL INNER JOIN between two tables.
- **Returns:** Query Builder instance with joined data.

## select()

```
1 DB::table('table')->select('column1', 'column2');
```

- **Purpose:** Specifies the columns to retrieve from the database.
- **Returns:** Query Builder instance.

## DB::raw()

```
1 DB::raw('COUNT(column) as count_alias');
```

- **Purpose:** Allows raw SQL expressions within a query.
- **Returns:** Raw SQL expression as part of the query.

## groupBy()

```
1 DB::table('table')->groupBy('column');
```

- **Purpose:** Groups query results based on a specified column.
- **Returns:** Query Builder instance with grouped results.

## orderBy() and orderByDesc()

```
1 DB::table('table')->orderBy('column', 'asc');  
2 DB::table('table')->orderByDesc('column');
```

- **Purpose:** Sorts results in ascending (orderBy) or descending (orderByDesc) order.
- **Returns:** Query Builder instance with sorted results.

`limit()`

```
1 DB::table('table')->limit(3);
```

- **Purpose:** Limits the number of rows returned.
- **Returns:** Query Builder instance with limited results.

`first()`

```
1 DB::table('table')->first();
```

- **Purpose:** Retrieves the first record from the query results.
- **Returns:** Single object representing the first result.

`get()`

```
1 DB::table('table')->get();
```

- **Purpose:** Executes the query and retrieves all matching records.
- **Returns:** Collection of results.