

Aggregate

Llamado

```
Model.aggregate(pipeline);
```

Pipeline

```
const pipeline = [  
  [pipeline stages]  
]
```

Pipeline Stages

- \$project
- \$skip
- \$sort
- \$limit
- \$match
- \$set / \$addFields
- \$count
- \$lookup
- \$unwind

\$project

{ \$project: { : 0, : 0, ... } }

\$project

```
{ $skip: 100 }
```

\$sort

```
{ $sort: { age: 1 } }
```

1 ⇒ ascendente

-1 ⇒ descendente

Solo acepta 1 o -1.

\$limit

{ \$limit: 20 }

Ejemplo

```
const pipeline = [  
  { $project: { name: 1, age: 1 } },  
  { $sort: { age: 1 } },  
  { $skip: 100 },  
  { $limit: 20 },  
];  
  
await Users.aggregate(pipeline);
```

\$match

```
{ $match : { name: "john" } }
```

\$match

```
{  
  $match: {  
    $and: [{ age: { $gt: 16 } }, { licenseNumber: { $exists: true } }];  
  }  
}
```

\$set & \$addFields

```
{ $set: { [newField]: [expression] } }  
{ $addFields: { [newField]: [expression] } }
```

\$count

```
{ $count: }
```

\$lookup

```
{
  $lookup: {
    from: "mascotas",
    localField: "\_id",
    foreignField: "owner\_id",
    as: "mis\_mascotas"
  }
}
```

\$unwind

```
{
  $unwind: {
    path: [field path],
    includeArrayIndex: <string>,
    preserveNullAndEmptyArrays: <boolean> //default: false
  }
}
```

Ejemplo Pipeline

```
const pipeline = [  
  { $project: { "name": 1, "age": 1 } },  
  { $sort: { age: 1 } },  
  { $lookup: {  
    from: "mascotas",  
    localField: "_id",  
    foreignField: "owner_id",  
    as: "mis_mascotas"  
  }},  
  { $unwind: {  
    path: "mis_mascotas"  
  }},  
  { $skip: 100 },  
  { $limit: 20 },  
];  
  
const docs = await Users.aggregate(pipeline);
```


Ejemplo Pipeline

```
const pipeline = [  
  { $project: { name: 1, age: 1 } },  
  { $sort: { age: 1 } },  
  { $skip: 100 },  
  { $limit: 20 },  
  {  
    $lookup: {  
      from: "mascotas",  
      localField: "_id",  
      foreignField: "owner_id",  
      as: "mis_mascotas",  
    },  
  },  
  {  
    $unwind: {  
      path: "mis_mascotas",  
    },  
  },  
];  
  
const docs = await Users.aggregate(pipeline);
```