

MongoDB - Query Operators

Topics : [MongoDB](#)

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In MongoDB, query operators are used to specify conditions in queries. They allow you to filter documents based on various criteria. Here are some common MongoDB query operators:

Comparison Operators:

1. Equality:

- `$eq`: Matches values that are equal to a specified value.

```
db.collection_name.find({ field: { $eq: value } });
```

2. Inequality:

- `$ne`: Matches values that are not equal to a specified value.

```
db.collection_name.find({ field: { $ne: value } });
```

3. Greater Than:

- `$gt`: Matches values that are greater than a specified value.

```
db.collection_name.find({ field: { $gt: value } });
```

4. Greater Than or Equal To:

- `$gte`: Matches values that are greater than or equal to a specified value.

```
db.collection_name.find({ field: { $gte: value } });
```

5. Less Than:

- `$lt`: Matches values that are less than a specified value.

```
db.collection_name.find({ field: { $lt: value } });
```

6. Less Than or Equal To:

- `$lte`: Matches values that are less than or equal to a specified value.

```
db.collection_name.find({ field: { $lte: value } });
```

Logical Operators:

1. Logical AND:

- `$and`: Joins query clauses with a logical AND.

```
db.collection_name.find({ $and: [ { field1: value1 }, { field2: value2 } ] });
```

2. Logical OR:

- `$or`: Joins query clauses with a logical OR.

```
db.collection_name.find({ $or: [ { field1: value1 }, { field2: value2 } ] });
```

3. Logical NOT:

- `$not`: Inverts the effect of a query expression and returns documents that do not match the query expression.

```
db.collection_name.find({ field: { $not: { $eq: value } } });
```

Element Operators:

1. Existence:

- `$exists`: Matches documents that have the specified field.

```
db.collection_name.find({ field: { $exists: true } });
```

2. Type:

- `$type`: Matches documents where the value of a field is of the specified BSON data type.

```
db.collection_name.find({ field: { $type: "string" } });
```

Array Operators:

1. Element in Array:

- `$in`: Matches any of the values specified in an array.

```
db.collection_name.find({ field: { $in: [value1, value2] } });
```

2. All Elements in Array:

- \$all: Matches arrays that contain all elements specified in the query.

```
db.collection_name.find({ field: { $all: [value1, value2] } });
```

3. Size of Array:

- \$size: Matches arrays with a specific number of elements.

```
db.collection_name.find({ field: { $size: 3 } });
```

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