Mongo DB

'OR', 'where', 'CRUD',

1. OR Queries

The \$or operator is used to perform a logical OR operation on an array of two or more expressions.

Example: Find documents where the name is either "Alice" or "Bob".

2. WHERE Queries

The \$where operator allows you to specify JavaScript expressions to query documents. It should be used sparingly as it can be slower and less efficient.

Example: Find documents where the age is greater than 25.

```
db.collection.find({
    $where: "this.age > 25"
})
```

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3. CRUD Operations

a. <u>Create</u>: To add new documents to a collection, you use the <u>insertOne</u> or <u>insertMany</u> methods.

Insert One Document:

```
db.collection.insertOne({
  name: "Alice",
  age: 25,
  city: "New York"
})
```

Output:

```
{
   "acknowledged" : true,
   "insertedId" : ObjectId("60d1f68ee5c15c1b5f13d8f9")
}
```

Insert Many Documents:

Output:

```
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("60d1f6c9e5c15c1b5f13d8fa"),
    ObjectId("60d1f6c9e5c15c1b5f13d8fb")
]
}
```

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b. READ: To retrieve documents, you use the find method. You can also specify conditions to filter the results.

Find All Documents:

```
db.collection.find()
```

Find Documents with a Condition

```
db.collection.find({ age: { $gt: 25 } })
```

c. Update: To modify existing documents, you use the updateOne or updateMany methods.

Update One Document: Update the age of the document where the name is "Alice".

```
db.collection.updateOne(
    { name: "Alice" },
    { $set: { age: 26 } }
)
```

Output:

```
{
  "acknowledged" : true,
  "matchedCount" : 1,
  "modifiedCount" : 1
}
```

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Update Many Documents: Update the city of all documents where the age is greater than 30

```
db.collection.updateMany(
    { age: { $gt: 30 } },
    { $set: { city: "Chicago" } }
)
```

Output:

```
{
  "acknowledged" : true,
  "matchedCount" : 2,
  "modifiedCount" : 2
}
```

d. Delete: To remove documents, you use the deleteOne or deleteMany methods.

Delete One Document: Delete the document where the name is "Alice".

```
db.collection.deleteOne({ name: "Alice" })
```

Output:

```
{
   "acknowledged" : true,
   "deletedCount" : 1
}
```

Delete Many Documents: Delete all documents where the age is less than 30.

```
db.collection.deleteMany({ age: { $1t: 30 } })
```

Output:

```
{
  "acknowledged" : true,
  "deletedCount" : 2
}
```

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