No SQL
Part 3

Working with arrays -find

A cursor method to arrange the results as arrays

```
db.movies.find({genres:"Drama"},{_id:0,title:1,genres:1}).toArray()
```

Can be used in arrays

```
db.movies.find({genres:["Drama","Crime"]},{_id:0,title:1,genres:1}).toArray()
```

Search for the exact match it the array

```
db.movies.find({genres:{$all:["Drama","Comedy"]}},{_id:0,title:1,genres:1}).toArray()
```

Search for an array that includes the values but can include more

Working with arrays

```
db.movies.updateOne({title:"The Godfather"},{"$push":{genres:"Classic"}})
```

Add to an array

```
db.movies.updateOne({title:"The Godfather"},{"$pull":{genres:"Classic"}})
```

Remove from an array

to access the nth element of the array :
"Array_name.n"
$position :n

Connections between Collections

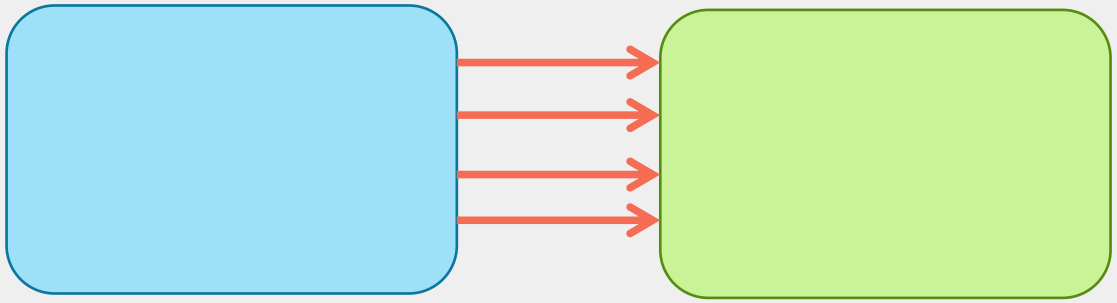
Nesting	Reference
Fast query +	Slow query -
Duplicate date -	No duplicate data +

```
{
    "name": "Cookie Monster",
    "age": 102,
    "purchased": [
        {"_id": 1234,"name": "choclate cookie","price": 3},
        {"_id": 5678,"name": "milk","price": 5},
        {"_id": 3579,"name": "kinder egg","price": 12}]
}
```

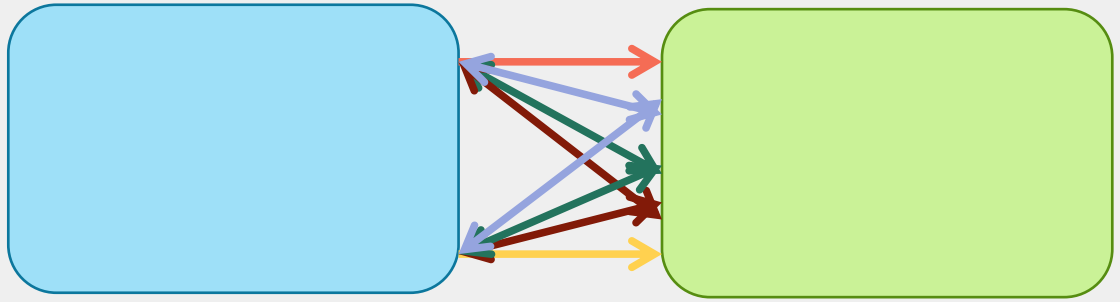
```
{
    "name": "Cookie Monster",
    "age": 102,
  "purchased": [1234,5678,3579]
}
```

Connections between Collections

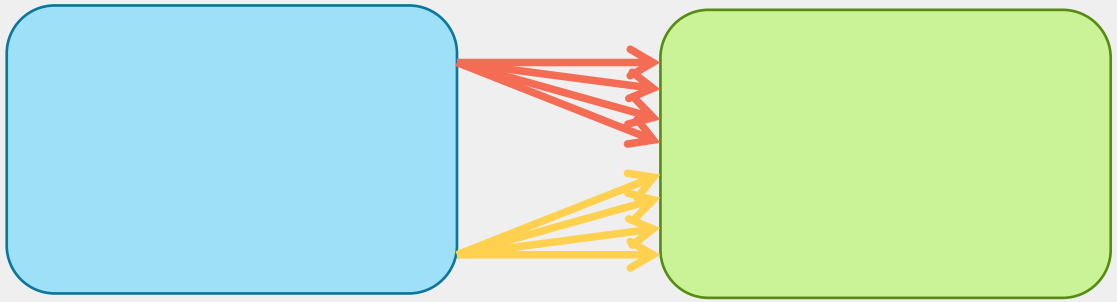
One to one



Many to many



One to many



Connections between Collections

aggregate

```
db.childCollection.aggregate({$lookup:
                                {
                                  from:"parentCollection",
                                  localField:"FieldInChild",
                                  foreignField:"fieldInParent",
                                  as: "alias"}
                                  })
```

Connections between Collections

Aggregate many to many with $project

```
db.coll1.aggregate([
    {
        $lookup: {
            from: "coll2",
            localField: "fieldInColl1",
            foreignField: "fieldInColl2",
            as: "alias"
        }
    },
    {
        $project: {
            keyFromColl1:1
            ...
            "alias.keyFromColl2": 1
        }
    }
]);
```