CODE CHALLENGE MONGO DB

RELATIONS IN MONGO DB

Mongo db supports data relations using embedding and referencing.

**Methods:**

One to one

One to many

Many to many

ONE TO ONE :

REFERENCE

db.manufacturers.insertOne({

\_id: 1,

name: "XYZ Corp",

country: "USA"

});

db.products.insertOne({

\_id: 1,

name: "Product A",

manufacturer\_id: 1

});

Output:

{

"\_id": 1,

"name": "Product A",

"manufacturer\_id": 1,

"manufacturer": [

{

"\_id": 1,

"name": "XYZ Corp",

"country": "USA"

}

]

}

EMBEDDED:

db.products.insertOne({

\_id: 2,

name: "Product B",

manufacturer: {

name: "ABC Inc",

country: "Germany"

}

});

Output:

{

"\_id": 2,

"name": "Product B",

"manufacturer": {

"name": "ABC Inc",

"country": "Germany"

}

}

ONE TO MANY:

REFERENCE

db.products.insertOne({

\_id: 3,

name: "Product C"

});

db.reviews.insertMany([

{ \_id: 1, product\_id: 3, user: "Alice", rating: 5 },

{ \_id: 2, product\_id: 3, user: "Bob", rating: 4 }

]);

Output:

{

"\_id": 3,

"name": "Product C",

"reviews": [

{ "\_id": 1, "product\_id": 3, "user": "Alice", "rating": 5 },

{ "\_id": 2, "product\_id": 3, "user": "Bob", "rating": 4 }

]

}

EMBEDDED:

db.products.insertOne({

\_id: 4,

name: "Product D",

reviews: [

{ user: "Carol", rating: 3 },

{ user: "Dave", rating: 5 }

]

});

Output:

{

"\_id": 4,

"name": "Product D",

"reviews": [

{ "user": "Carol", "rating": 3 },

{ "user": "Dave", "rating": 5 }

]

}

MANY TO MANY:

REFERENCE

db.categories.insertMany([

{ \_id: 1, name: "Electronics" },

{ \_id: 2, name: "Gadgets" }

]);

db.products.insertOne({

\_id: 5,

name: "Product E",

category\_ids: [1, 2]

});

Output:

{

"\_id": 5,

"name": "Product E",

"category\_ids": [1, 2],

"categories": [

{ "\_id": 1, "name": "Electronics" },

{ "\_id": 2, "name": "Gadgets" }

]

}

EMBEDDED:

db.products.insertOne({

\_id: 6,

name: "Product F",

categories: [

{ name: "Furniture" },

{ name: "Office Supplies" }

]

});

Output:

{

"\_id": 6,

"name": "Product F",

"categories": [

{ "name": "Furniture" },

{ "name": "Office Supplies" }

]

}