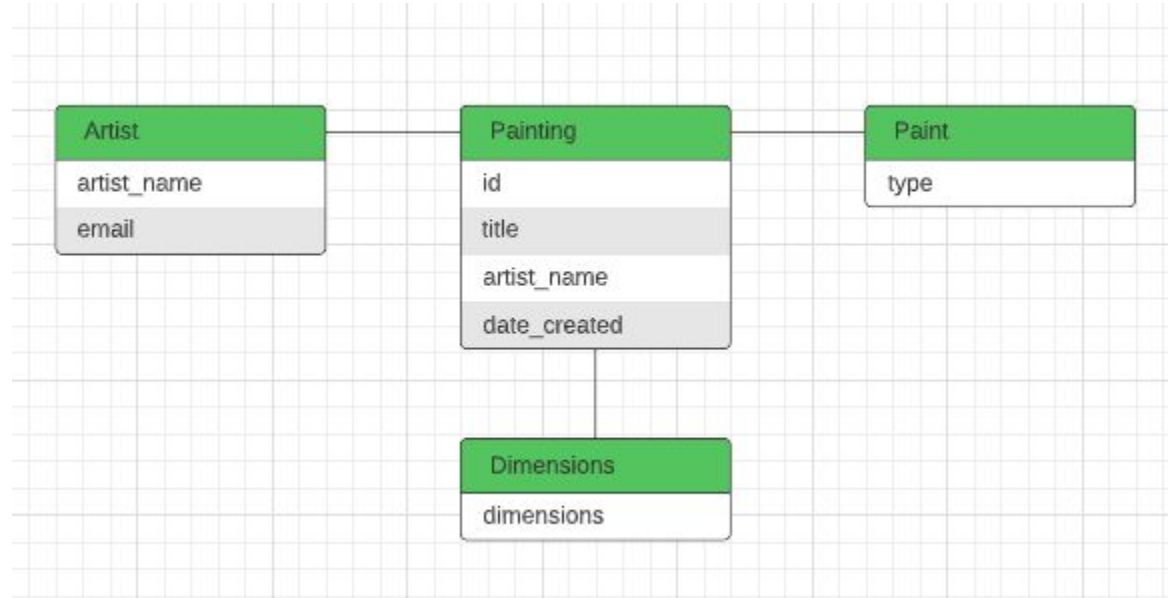


Group 2

Members:

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ER Diagram



NoSQL Data Model

Painting

```
{
  _id: ObjectID
  title: String,
  artist: [
    {
      name: String,
      email: String
    }
  ],
  date_created: String,
  dimensions: String,
  paint: String
}
```

Creating MongoDB Database and Collection

×

Create Database

Database Name

Collection Name

➤ **Advanced Collection Options** (e.g. Time-Series, Capped, Clustered collections)

Cancel

Create Database

Performing CRUD using Mongo Shell

- CREATE
- Using insertOne() method

```
> db.painting.insertOne({
  title: "1 in 7 Billion",
  artist: [{name: "Caesar Legaspi", email: "caesar.legaspi@email.com"}],
  dimensions: "424x540",
  date_created: "6/27/2020",
  paint: "Acrylic"
})
< { acknowledged: true,
  insertedId: ObjectId("63687e02f205d682367469dc") }
art-portfolio> |
```

Performing CRUD using Mongo Shell

- CREATE
- Using insertMany()
method

```
> db.painting.insertMany([  
  title: "Speckled World",  
  artist: [{name: "Caesar Legaspi", email: "caesar.legaspi@email.com"}],  
  dimensions: "424x540",  
  date_created: "1/2/2019",  
  paint: "Oil"},  
  {  
    title: "Ocean Blues",  
    artist: [{name: "Caesar Legaspi", email: "caesar.legaspi@email.com"}],  
    dimensions: "424x540",  
    date_created: "5/17/2019",  
    paint: "Acrylic"}  
])  
< { acknowledged: true,  
  insertedIds:  
    { '0': ObjectId("6368a7e6f205d682367469df"),  
      '1': ObjectId("6368a7e6f205d682367469e0") } }  
art-portfolio> |
```

Performing CRUD using Mongo Shell

- READ
- Using find()

```
> db.painting.find({dimensions: "424x540", paint: "Oil"})
< { _id: ObjectId("6367ab305abff937dbc20f8c"),
  title: 'Marbling Universe',
  artist: [ { name: 'Caesar Legaspi', email: 'caesar.legaspi@email.com' } ],
  dimensions: '424x540',
  date_created: '3/11/2015',
  paint: 'Oil' }
{ _id: ObjectId("6368a7e6f205d682367469df"),
  title: 'Speckled World',
  artist: [ { name: 'Caesar Legaspi', email: 'caesar.legaspi@email.com' } ],
  dimensions: '424x540',
  date_created: '1/2/2019',
  paint: 'Oil' }
art-portfolio> |
```

Performing CRUD using Mongo Shell

- UPDATE
- Using updateOne()

```
> db.painting.updateOne(  
  { _id: ObjectId("6367ab305abff937dbc20f8a") },  
  { $set : { date_created: "4/3/2016" } })  
  
< { acknowledged: true,  
  insertedId: null,  
  matchedCount: 1,  
  modifiedCount: 1,  
  upsertedCount: 0 }  
art-portfolio> |
```


Performing CRUD using Mongo Shell

- DELETE

```
> db.painting.deleteOne({_id: ObjectId("6368af1ff205d682367469e3")})  
< { acknowledged: true, deletedCount: 1 }  
art-portfolio> |
```

- Using deleteOne()