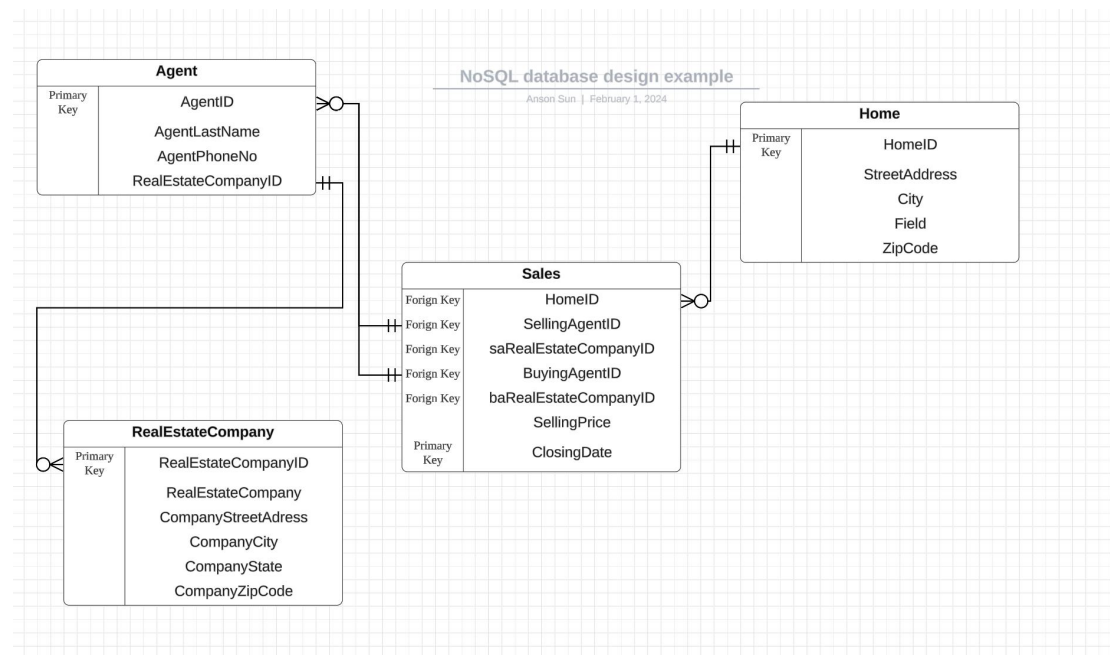


Part1:



Our data usage pattern is to find the average quarterly sold quantity of a color. Use the embedding design technique and the provided data to design a MongoDB database. Create the database on MongoDB Atlas that includes document(s) reflecting the data contained in the attached file. (50% of grade)

MongoDB Compass - cluster0.cx8v8hm.mongodb.net/ColorTotals.Colors

cluster0.cx8v8h...

ColorTotals.Colors

12 DOCUMENTS 1 INDEXES

Documents

Filter: {}

Generate query Explain Reset Find Options

ADD DATA EXPORT DATA UPDATE DELETE

1 - 12 of 12

* Colors	_id ObjectId	color String	Quater Int32	Sold Quantity Int32
1	ObjectId('65bbf8ac8559ba5...')	"Blue"	1	238
2	ObjectId('65bbf8f08559ba5...')	"Blue"	2	452
3	ObjectId('65bbf8fb8559ba5...')	"Blue"	3	6351
4	ObjectId('65bbf9058559ba5...')	"Blue"	4	5288
5	ObjectId('65bbf9158559ba5...')	"Red"	1	2453
6	ObjectId('65bbf91f8559ba5...')	"Red"	2	3486
7	ObjectId('65bbf9288559ba5...')	"Red"	3	1535
8	ObjectId('65bbf9308559ba5...')	"Red"	4	1250
9	ObjectId('65bbf93c8559ba5...')	"Silver"	1	814
10	ObjectId('65bbf9458559ba5...')	"Silver"	2	1039
11	ObjectId('65bbf94b8559ba5...')	"Silver"	3	5788
12	ObjectId('65bbf9538559ba5...')	"Silver"	4	4511

_MONGOSH

Then use the MongoDB Compass, JavaScripts and MongoDB Aggregation Pipeline to calculate the average quarterly sold quantity of the blue color. (50% of grade)

The the average quarterly sold quantity of the blue color is 3078.25

MongoDB Compass - cluster0.cx8v8hm.mongodb.net/ColorTotals.Colors

Connect Edit View Collection Help

cluster0.cx8v8h...

My QueriesDatabaseAgentSalesHomeAgentColors

My QueriesPerformanceDatabasesColorTotalsColorsHomeSalesAgentHomeRealEstateCompanySalesadminlocaloplog.rs

ColorTotals.Colors12 DOCUMENTS1 INDEXES

DocumentsAggregationsSchemaIndexesValidation

Pipeline\$groupGenerate aggregationExplainExportRunOptions

Untitled - modifiedSAVECREATE NEWEXPORT TO LANGUAGEPREVIEWSTAGESTEXTWIZARD

0 Documents in the collectionPreview of documents

Stage1\$group

```
1 /**
2  * _id: The id of the group.
3  * fieldN: The first field name.
4  */
5 {
6   _id: "$color",
7   avgQuantity: {$avg: "$Sold Quantity"}
8 }
```

Output after \$group stage (Sample of 3 documents)

_id: "Blue"avgQuantity: 3878.25

_id: "Red"avgQuantity: 2181

+ Add Stage

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