ALL TESTED - MongoDbQueries

Find the product with the highest price and project the result to display only the Name and Price fields: db.products.aggregate([{ \$sort: { Price: -1 } }, { \$limit: 1 }, { \$project: { id: 0, Name: 1, Price: 1 } } Find the product with the earliest StartingDateAvailable and project the result to display only the Name and StartingDateAvailable fields: db.products.aggregate([{ \$sort: { StartingDateAvailable: 1 } }, { \$limit: 1 }, { \$project: { id: 0, Name: 1, StartingDateAvailable: 1 } } 1); Find the most common product color in your data set: db.products.aggregate([{"\$group": {"_id":{Colour: "\$Colour"},count: {\$sum: 1}}}, {"\$sort": {count: -1}}, {"\$limit":1}]); Write a MongoDB query to update the inserted records so that all records in your collection will have a field Premium Brand. If the cost of the product is greater than or equal to \$100 set this to True; otherwise, False. db.products.updateMany({},[{\$set: {Premium Brand: {\$cond: { if: { \$gte: ["\$Price", 100] }, then: true,else: false}}}]) 9) Write a MongoDB query to update the inserted records so that all records in your collection will have the field Sale_Price. Set sale price to be 20% discounted on the original price. For example, if original price is \$100, sale price would be \$80

db.products.updateMany({},

[{\$set: {Sale Price: {\$multiply: ["\$Price", 0.8]}}}])

```
10)
Find all records with descriptions that include the word "large" and project the result to
display only the Name and Description fields:
db.products.aggregate([
  $match: {
   Description: { $regex: /large/i }
  $project: {
   id: 0,
   Name: 1,
   Description: 1
]);
<u>11)</u>
Update all existing records and change the field name "Manufacturer" to "Produced_By":
db.products.updateMany(
 {},
  $rename: { "Manufacturer": "Produced_By" }
);
Find the product that was available for the longest period of time:
db.products.aggregate([
  $addFields: {
   AvailablePeriod: { $subtract: ["$EndingDateAvailable", "$StartingDateAvailable"] }
  $sort: { AvailablePeriod: -1 }
```

\$limit: 1

\$project: { _id: 0, Name: 1, AvailablePeriod: 1 }

},

]);

13)

Find all products that have been discontinued (EndingDate is earlier than today's current date):

```
const currentDate = new Date();
db.products.find({
   EndingDateAvailable: { $It: currentDate }
});
```

<u>14)</u>

Find Products Manufactured by "True Steel Pans":

This query will find all products that are manufactured by "True Steel Pans" and list their names and prices.

```
db.products.find(
   { Produced_By: "True Steel Pans" },
   { _id: 0, Name: 1, Price: 1 }
);
```

15)

Find Products by Color and Type:

This query will find all products that are both "Blue" in color and of type "Non-Stick." It will display their names and descriptions.

```
db.products.find(
   { Colour: "Blue", Type: "Non-Stick" },
   { _id: 0, Name: 1, Description: 1 }
);
```