MongoDB \$avg (aggregation)

- Available in Aggregation Pipeline \$group and \$project Stages
- Returns the average value of the numeric values
- \$avg ignores non-numeric values

SoldItems Document Collection

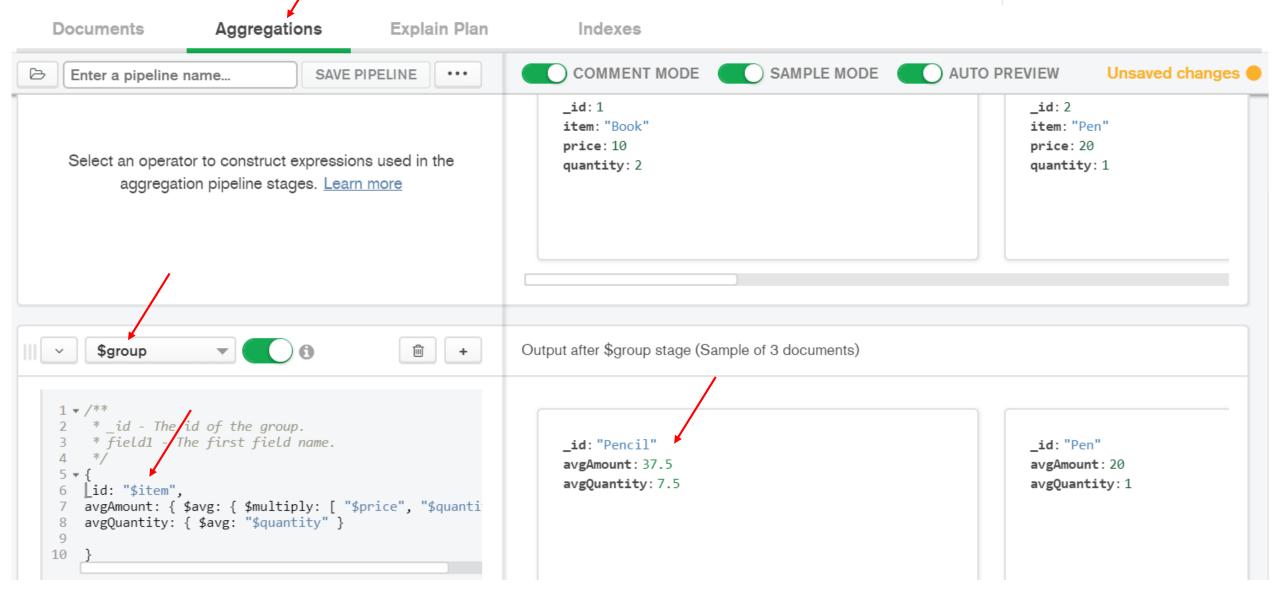
```
{ "_id" : 1, "item" : "Book", "price" : 10, "quantity" : 2 }
{ "_id" : 2, "item" : "Pen", "price" : 20, "quantity" : 1 }
{ "_id" : 3, "item" : "Pencil", "price" : 5, "quantity" : 5 }
{ "_id" : 4, "item" : "Book", "price" : 10, "quantity" : 10 }
{ "_id" : 5, "item" : "Pencil", "price" : 5, "quantity" : 10 }
```

\$group Stages

```
_id: "$item",
avgAmount: { $avg: { $multiply: [ "$price", "$quantity" ] } },
avgQuantity: { $avg: "$quantity" }
```

INDEXES 1 8.0KB

TOTAL SIZE AVG. SIZE 8.0KB



Grades Document Collection

```
{ "_id": 1, "quizzes": [ 10, 6, 7 ], "labs": [ 5, 8 ], "final": 80, "midterm": 75 } 
{ "_id": 2, "quizzes": [ 9, 10 ], "labs": [ 8, 8 ], "final": 95, "midterm": 80 } 
{ "_id": 3, "quizzes": [ 4, 5, 5 ], "labs": [ 6, 5 ], "final": 78, "midterm": 70 }
```

\$project Stage

```
quizAvg: { $avg: "$quizzes"},
labAvg: { $avg: "$labs" },
examAvg: { $avg: [ "$final", "$midterm" ] }
```

DOCUMENTS 3 TOTAL SIZE AVG. SIZE 112B

INDEXES 1

TOTAL SIZE 8.0KB

Documents Aggregations Explain Plan Indexes

