

MongoDB Compass - cluster0.xum5mos.mongodb.net/DataMgt_and_Database_Design.Lab1

Compass

My Queries

CONNECTIONS ()

cluster0.xum5mos.mongodb.net
DataMgt_and_Database_Design
Lab1

Documents 10 Aggregations Schema Indexes 1 Validation

Aggregations

\$group

Generate aggregation Explain Export Run Options

EmbeddingLang... SAVE CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT WIZARD

```

1 [ ]
2   {
3     $group:
4       /**
5        * _id: The id of the group.
6        * fieldN: The first field name.
7       */
8   {
9     _id: "$CustomerID",
10    LastName: {
11      $first: "$LastName"
12    },
13    FirstName: {
14      $first: "$FirstName"
15    },
16    EmailAddress: {
17      $first: "$EmailAddress"
18    },
19    AverageTotalOrderQuantity: {
20      $avg: "$TotalOrderQuantity"
21    },
22    AverageOrderValue: {
23      $avg: "$OrderValue"
24    }
25  }
26 ]
27

```

Pipeline Output

Sample of 3 documents

```

_id: 30083
LastName: "Track"
FirstName: "Glenn"
EmailAddress: "glenn@adventure-works.com"
AverageTotalOrderQuantity: 117
AverageOrderValue: 2486255.25

_id: 30020
LastName: "Miller"
FirstName: "Emilio"
EmailAddress: "emilio@adventure-works.com"
AverageTotalOrderQuantity: 33.5
AverageOrderValue: 242869.5

_id: 30010
LastName: "New"
FirstName: "Stephen"
EmailAddress: "stephen4@adventure-works.com"
AverageTotalOrderQuantity: 1
AverageOrderValue: 728.5

```

OUTPUT OPTIONS

cluster0.xum5mos.mongodb.net DataMgt_and_Database_Design Customers

My Queries

CONNECTIONS ()

cluster0.xum5mos.mongodb.net
DataMgt_and_Database_Design
Customers

Documents 3 Aggregations Schema Indexes 1 Validation

Aggregations

\$lookup \$unwind \$group

Generate aggregation Explain Export Run Options

Untitled - modified SAVE CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT WIZARD

Stage 1 \$lookup

```

1 /**
2  * path: Path to the array field.
3  * includeArrayIndex: Optional name for i
4  * preserveNullAndEmptyArrays: Optional
5  *   toggle to unwind null and empty value
6  */
7 {
8   path: "$orders"
9 }

```

Output after \$lookup stage (Sample of 10 documents)

```

_id: 30083
LastName: "Track"
FirstName: "Glenn"
EmailAddress: "glenn@adventure-works.com"
SalesOrder IDs: Array (4)
CustomerID: 30083
orders: Object

```

Stage 2 \$unwind

Stage 3 \$group

```

1 /**
2  * _id: The id of the group.
3  * fieldN: The first field name.
4  */
5 {
6   _id: null,
7   totalOrderNumber: {
8     $sum: "$orders.TotalOrderQuantity"
9   },
10  totalOrderValue: {
11    $sum: "$orders.OrderValue"
12  }
13

```

Output after \$group stage (Sample of 1 document)

```

_id: null
totalOrderNumber: 604
totalOrderValue: 10917956

```

Add stage

Learn more about aggregation pipeline stages