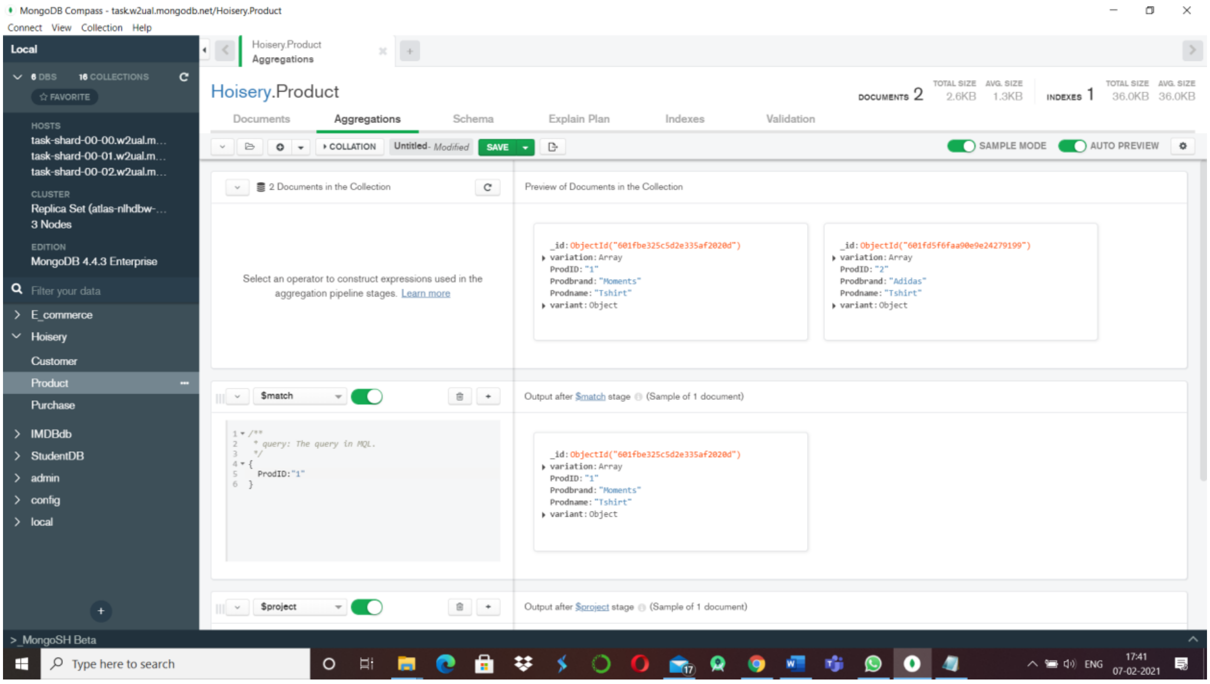
E_Commerce Task in MongoDb


MongoDB Compass - task.w2ual.mongodb.net/Hoisery.Product
Connect View Collection Help
Local
6 DBS 16 COLLECTIONS
☆ FAVORITE
HOSTS
task-shard-00-00.w2ual.m...
task-shard-00-01.w2ual.m...
task-shard-00-02.w2ual.m...
CLUSTER
Replica Set (atlas-nlhdbw-...
3 Nodes
EDITION
MongoDB 4.4.3 Enterprise
Filter your data
E_commerce
Hoisery
Customer
Product
Purchase
IMDBdb
StudentDB
admin
config
local
Hoisery.Product
Aggregations
Documents Aggregations Schema Explain Plan Indexes Validation
DOCUMENTS 2 TOTAL SIZE 2.6KB AVG. SIZE 1.3KB INDEXES 1 TOTAL SIZE 36.0KB AVG. SIZE 36.0KB
COLLATION
Untitled - Modified
SAVE
SAMPLE MODE
AUTO PREVIEW
2 Documents in the Collection
Preview of Documents in the Collection
Select an operator to construct expressions used in the aggregation pipeline stages. Learn more
$match
Output after $match stage (Sample of 1 document)
$project
Output after $project stage (Sample of 1 document)
MongoSH Beta
Type here to search
ENG
17:41
07-02-2021

Preview of Documents in the Collection

```
_id: ObjectId("601fbe325c5d2e335af2020d")
▸ variation: Array
ProdID: "1"
Prodbrand: "Moments"
Prodname: "Tshirt"
▸ variant: Object
```

```
_id: ObjectId("601fd5f6faa90e9e24279199")
▸ variation: Array
ProdID: "2"
Prodbrand: "Adidas"
Prodname: "Tshirt"
▸ variant: Object
```

$match

```
/**
 * query: The query in MQL.
 */
{
  ProdID:"1"
}
```

Output after $match stage (Sample of 1 document)

```
_id: ObjectId("601fbe325c5d2e335af2020d")
▸ variation: Array
ProdID: "1"
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Prodname: "Tshirt"
▸ variant: Object
```

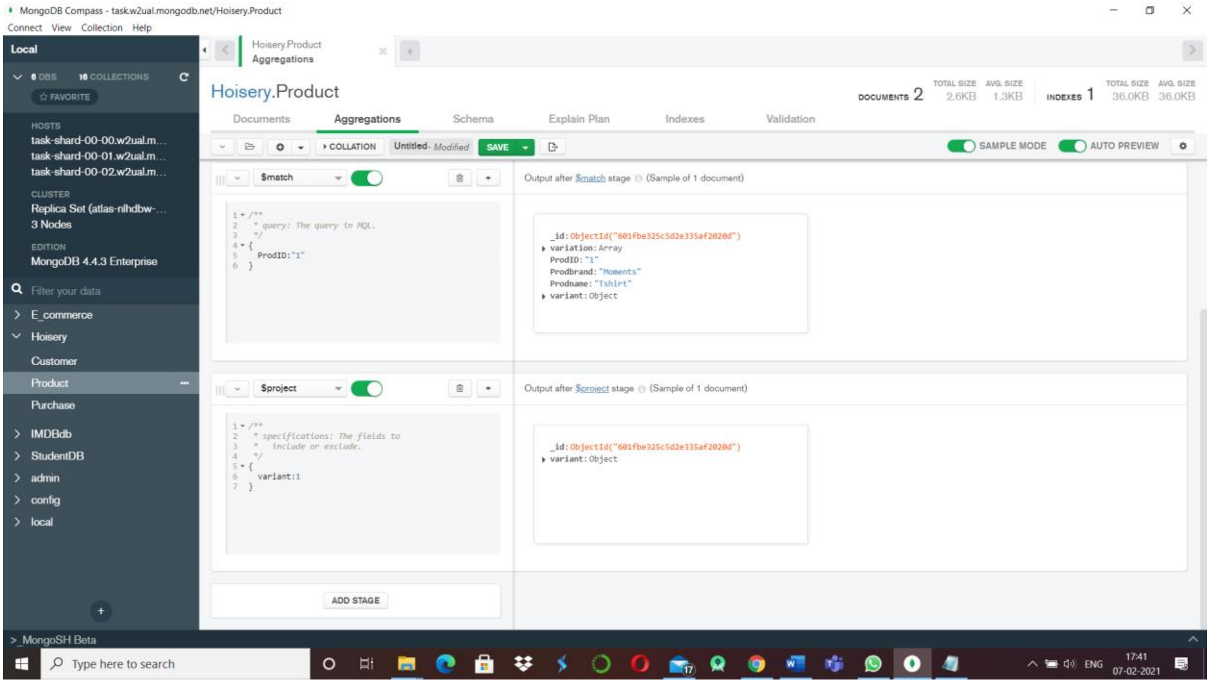
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$match

```
/**
 * query: The query in MQL.
 */
{
  ProdID:"1"
}
```

Output after $match stage (Sample of 1 document)

```
_id: ObjectId("601fbe325c5d2e335af2020d")
▸ variation: Array
ProdID: "1"
Prodbrand: "Moments"
Prodname: "Tshirt"
▸ variant: Object
```

$project

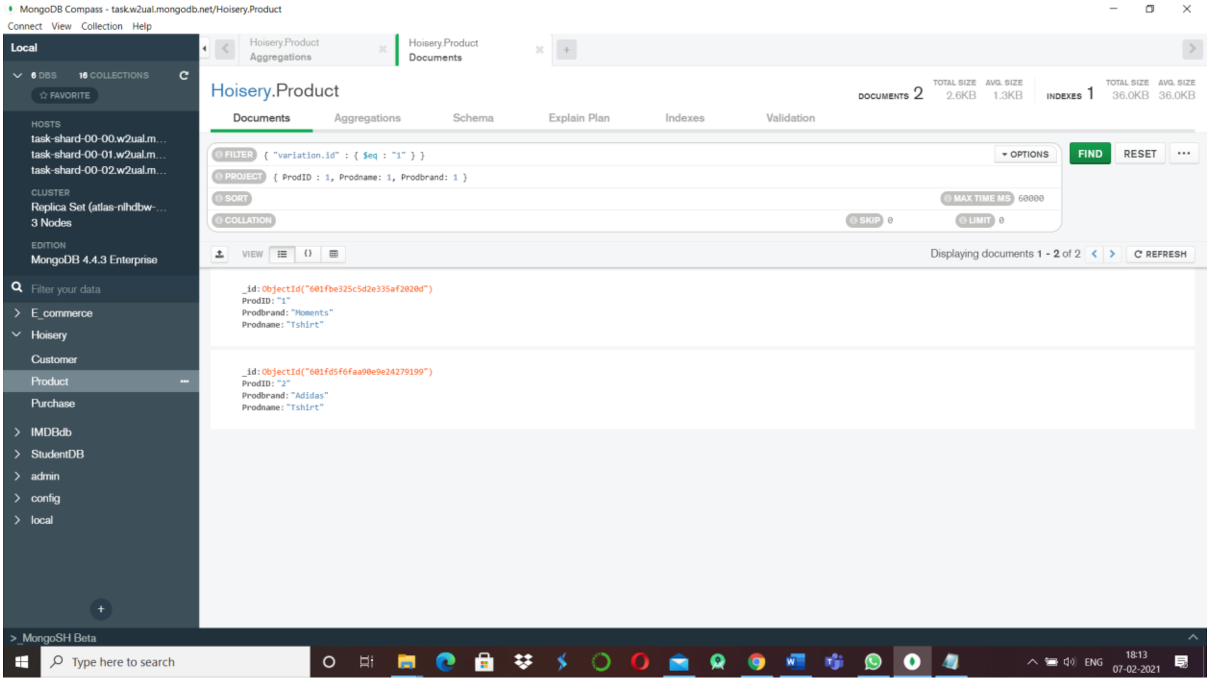
```
/**
 * specifications: The fields to
 *   include or exclude.
 */
{
  variant:1
}
```

Output after $project stage (Sample of 1 document)

```
_id: ObjectId("601fbe325c5d2e335af2020d")
▸ variant: Object
```

[Find all media corresponding to given ProdID]

E_Commerce Task in MongoDb



MongoDB Compass - task.w2ual.mongodb.net/Hoisery.Product

Hoisery.Product

FILTER `{ "variation.id" : { $eq : "1" } }`

PROJECT `{ ProdID : 1, Prodname: 1, Prodbrand: 1 }`

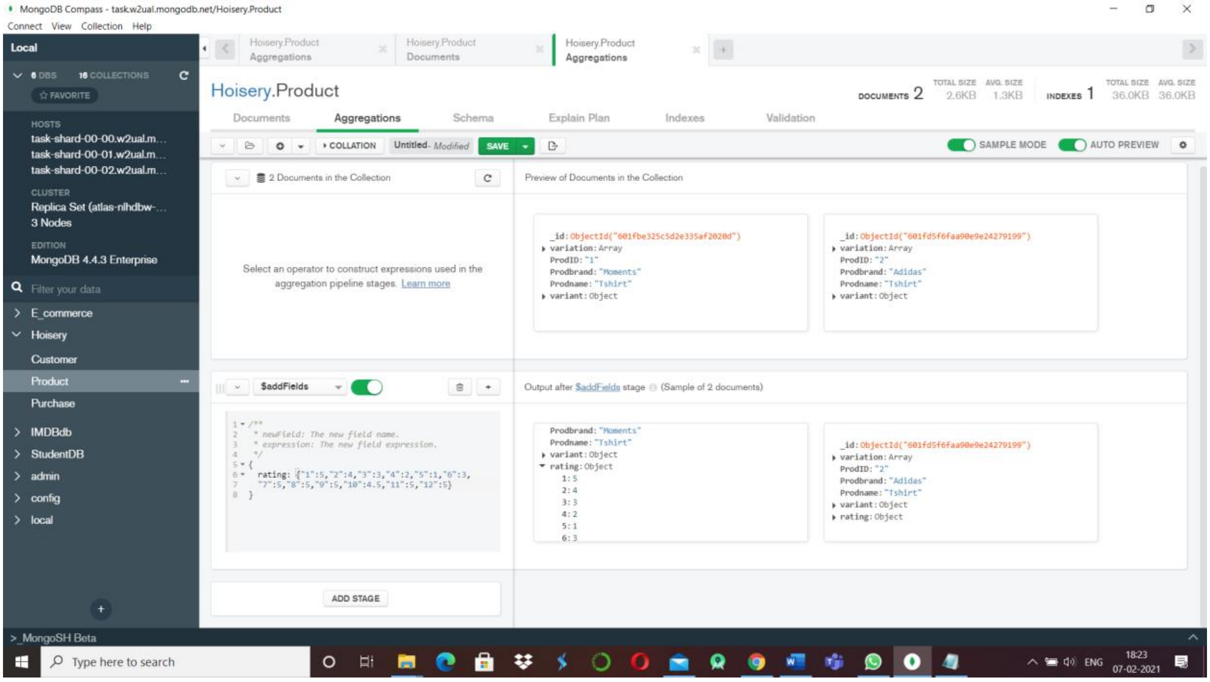
MAX TIME MS 60000 SKIP 0 LIMIT 0

Displaying documents 1 - 2 of 2

```
_id: ObjectId("601fbe325c5d2e335af2020d")
ProdID: "1"
Prodbrand: "Moments"
Prodname: "Tshirt"
```

```
_id: ObjectId("601fd5f6faa90e9e24279199")
ProdID: "2"
Prodbrand: "Adidas"
Prodname: "Tshirt"
```

[find product info by variationID]



MongoDB Compass - task.w2ual.mongodb.net/Hoisery.Product

Hoisery.Product

2 Documents in the Collection

Preview of Documents in the Collection

```
_id: ObjectId("601fbe325c5d2e335af2020d")
variation: Array
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_id: ObjectId("601fd5f6faa90e9e24279199")
variation: Array
ProdID: "2"
Prodbrand: "Adidas"
Prodname: "Tshirt"
variant: Object
```

$addFields

```
/**
 * newField: The new field name.
 * expression: The new field expression.
 */
{
  rating: {"1":5,"2":4,"3":3,"4":2,"5":1,"6":3,
  "7":5,"8":5,"9":5,"10":4.5,"11":5,"12":5}
}
```

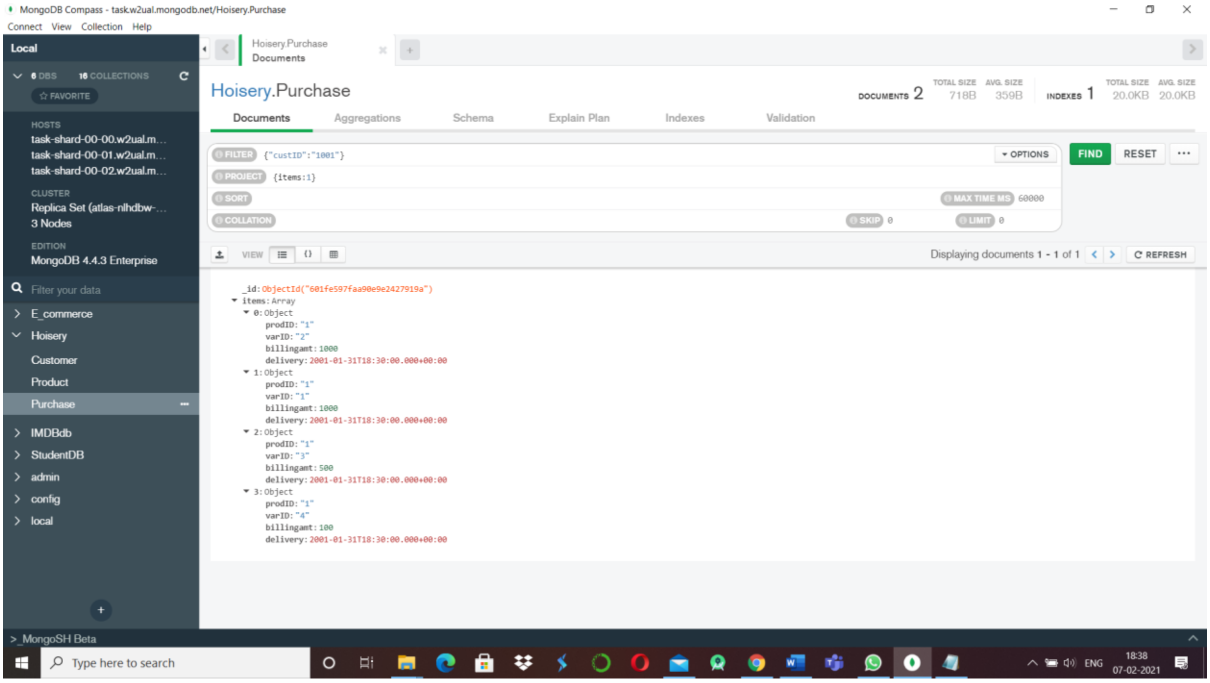
Output after $addFields stage (Sample of 2 documents)

```
Prodbrand: "Moments"
Prodname: "Tshirt"
variant: Object
rating: Object
  1: 5
  2: 4
  3: 3
  4: 2
  5: 1
  6: 3
```

```
_id: ObjectId("601fd5f6faa90e9e24279199")
variation: Array
ProdID: "2"
Prodbrand: "Adidas"
Prodname: "Tshirt"
variant: Object
rating: Object
```

[add field (added rating) then find average rating]

E_Commerce Task in MongoDb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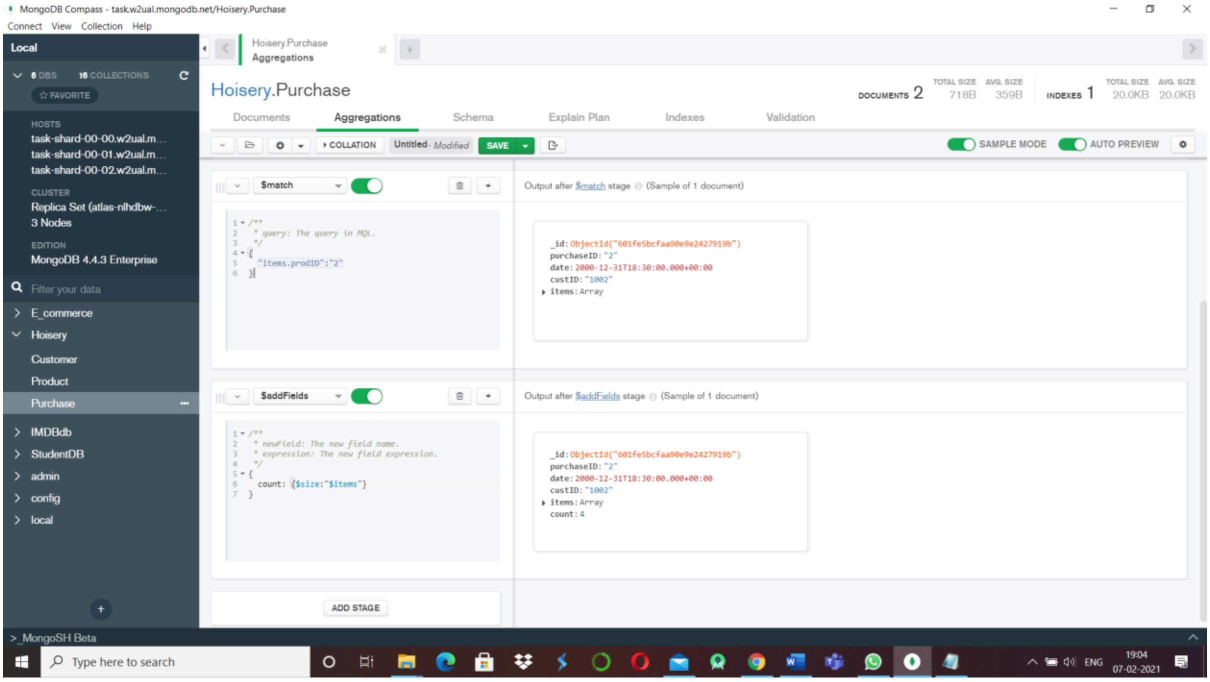
Documents Aggregations Schema Explain Plan Indexes Validation
OPTIONS FIND RESET
VIEW
Displaying documents 1 - 1 of 1
REFRESH
_MongoSH Beta
Type here to search
ENG 18:38 07-02-2021

```
FILTER {"custID":"1001"}
PROJECT {items:1}
SORT
COLLATION
MAX TIME MS 60000
SKIP 0
LIMIT 0
```

```
_id: ObjectId("601fe597faa90e9e2427919a")
▾ items: Array
  ▾ 0: Object
      prodID: "1"
      varID: "2"
      billingamt: 1000
      delivery: 2001-01-31T18:30:00.000+00:00
  ▾ 1: Object
      prodID: "1"
      varID: "1"
      billingamt: 1000
      delivery: 2001-01-31T18:30:00.000+00:00
  ▾ 2: Object
      prodID: "1"
      varID: "3"
      billingamt: 500
      delivery: 2001-01-31T18:30:00.000+00:00
  ▾ 3: Object
      prodID: "1"
      varID: "4"
      billingamt: 100
      delivery: 2001-01-31T18:30:00.000+00:00
```

[orders by custID]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AUTO PREVIEW
ADD STAGE
_MongoSH Beta
Type here to search
ENG 19:04 07-02-2021

$match

```
/**
 * query: The query in MQL.
 */
{
  "items.prodID":"2"
}
```

Output after $match stage (Sample of 1 document)

```
_id: ObjectId("601fe5bcfaa90e9e2427919b")
purchaseID: "2"
date: 2000-12-31T18:30:00.000+00:00
custID: "1002"
▸ items: Array
```

$addFields

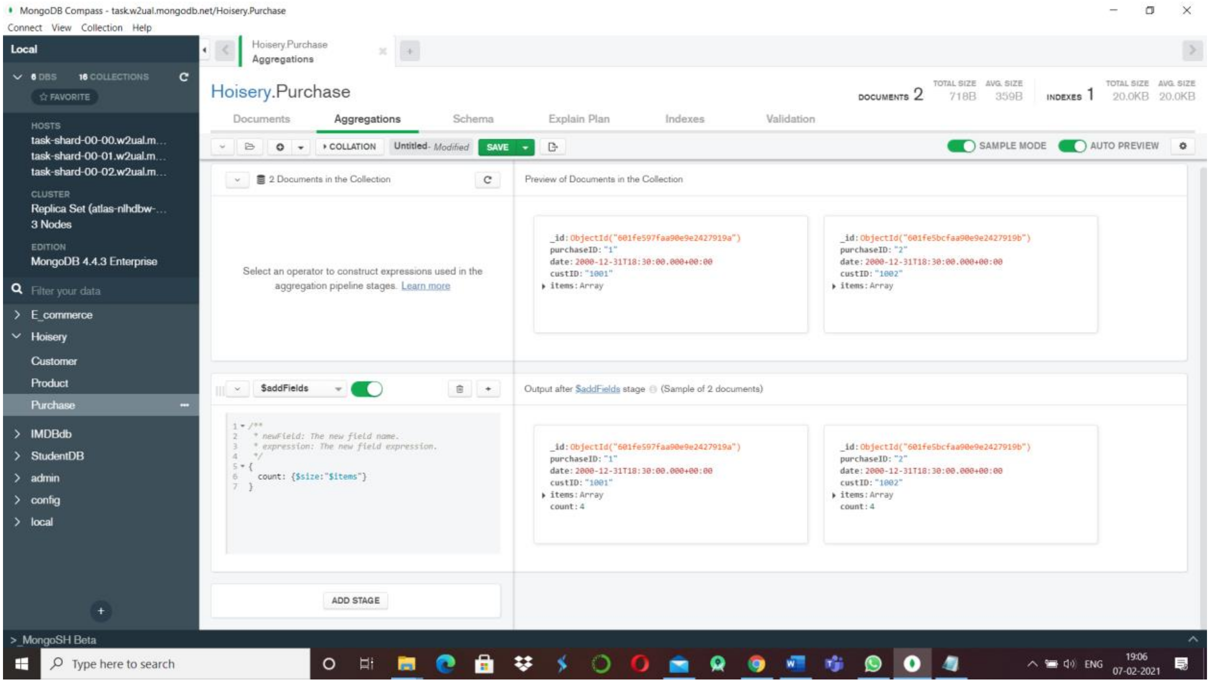
```
/**
 * newField: The new field name.
 * expression: The new field expression.
 */
{
  count: {$size:"$items"}
}
```

Output after $addFields stage (Sample of 1 document)

```
_id: ObjectId("601fe5bcfaa90e9e2427919b")
purchaseID: "2"
date: 2000-12-31T18:30:00.000+00:00
custID: "1002"
▸ items: Array
count: 4
```

[count of items by prodID]

E_Commerce Task in MongoDb



Hoisery.Purchase

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2 Documents in the Collection

Select an operator to construct expressions used in the aggregation pipeline stages. Learn more

Preview of Documents in the Collection

```
_id: ObjectId("601fe597faa90e9e2427919a")
purchaseID: "1"
date: 2000-12-31T18:30:00.000+00:00
custID: "1001"
items: Array
```

```
_id: ObjectId("601fe5bcfaa90e9e2427919b")
purchaseID: "2"
date: 2000-12-31T18:30:00.000+00:00
custID: "1002"
items: Array
```

$addFields

```
/**
 * newField: The new field name.
 * expression: The new field expression.
 */
{
  count: {$size:"$items"}
}
```

Output after $addFields stage (Sample of 2 documents)

```
_id: ObjectId("601fe597faa90e9e2427919a")
purchaseID: "1"
date: 2000-12-31T18:30:00.000+00:00
custID: "1001"
items: Array
count: 4
```

```
_id: ObjectId("601fe5bcfaa90e9e2427919b")
purchaseID: "2"
date: 2000-12-31T18:30:00.000+00:00
custID: "1002"
items: Array
count: 4
```

[total count of items that are purchased]