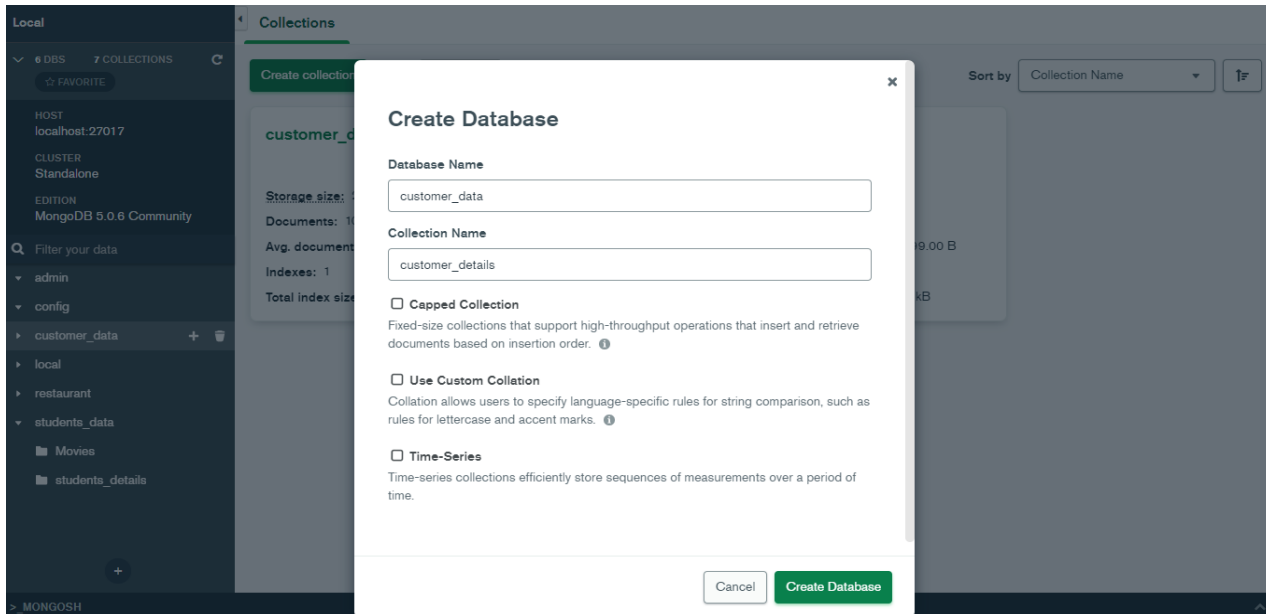


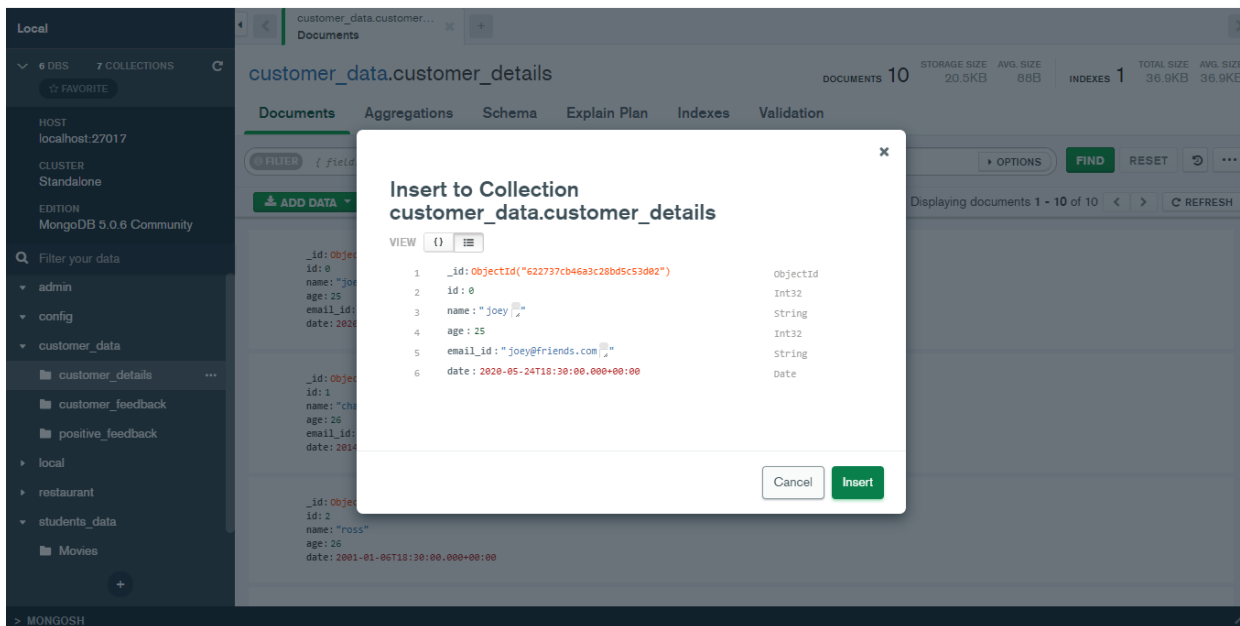
RetailCity customer data

Task 1, Task 2

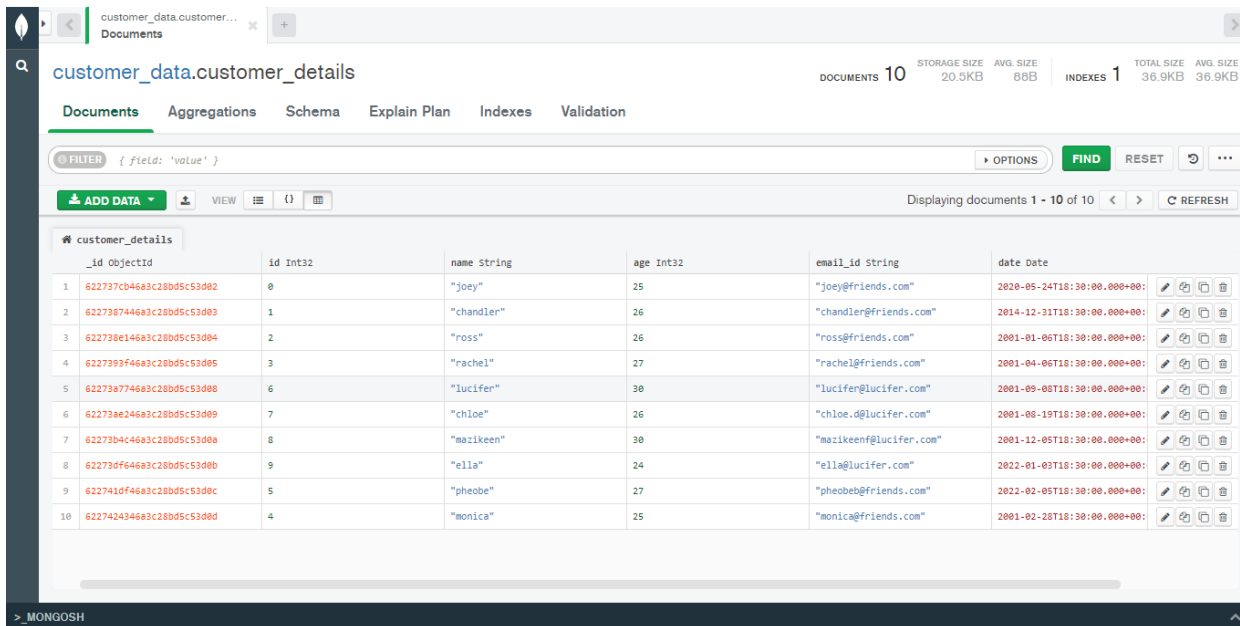
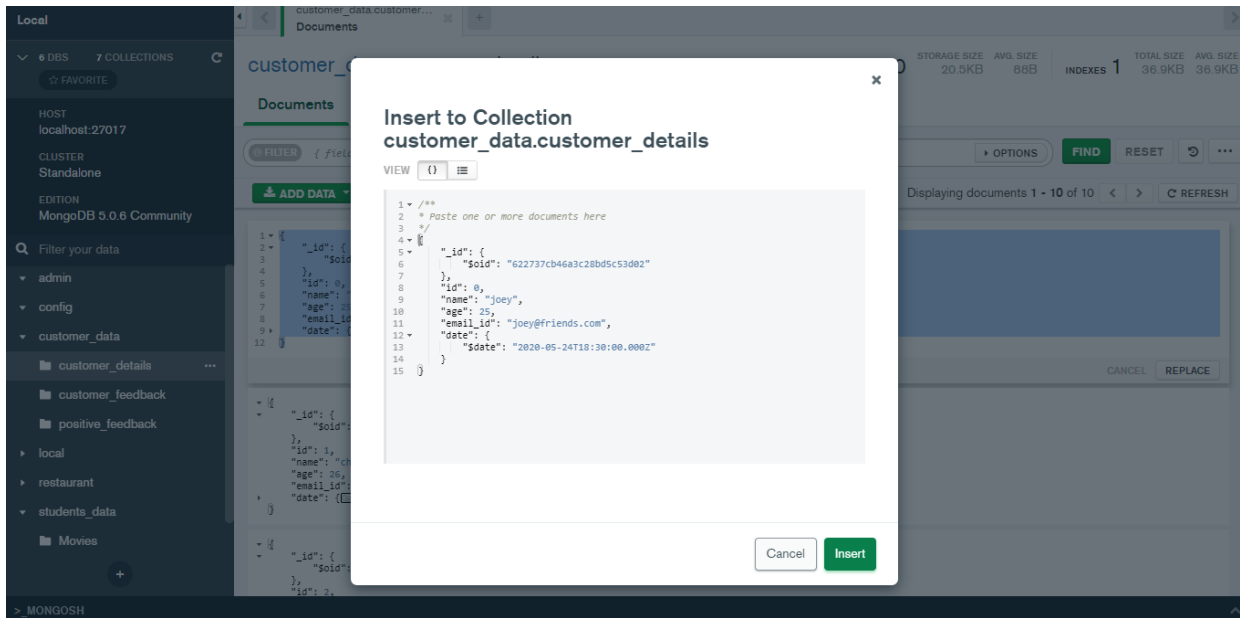


Task 3

List



Json Format



Task 4

{age:{\$gte:24,\$lte:27}}

The screenshot shows the MongoDB Compass interface. On the left, the 'Local' sidebar displays the database structure: 'customer_data' with a sub-collection 'customer_details'. The main panel shows the 'Documents' tab for 'customer_data.customer_details'. A filter is applied: `{age:{$gte:24,$lte:27}}`. The results show 3 documents:

- Document 0: `{_id: ObjectId("622737cb46a3c28bd5c53d02"), id: 0, name: "joey", age: 25, email_id: "joey@friends.com", date: 2020-05-24T18:30:00.000+00:00}`
- Document 1: `{_id: ObjectId("6227387446a3c28bd5c53d03"), id: 1, name: "chandler", age: 26, email_id: "chandler@friends.com", date: 2014-12-31T18:30:00.000+00:00}`
- Document 2: `{_id: ObjectId("622738e146a3c28bd5c53d04"), id: 2, name: "ross", age: 26, date: 2001-01-05T18:30:00.000+00:00}`

Task 5

{id:{\$in:[5,7,8,10]}}

The screenshot shows the MongoDB Compass interface. On the left, the 'Local' sidebar displays the database structure: 'customer_data' with a sub-collection 'customer_details'. The main panel shows the 'Documents' tab for 'customer_data.customer_details'. A filter is applied: `{id:{$in:[5,7,8,10]}}`. The results show 3 documents:

- Document 7: `{_id: ObjectId("62273ae246a3c28bd5c53d09"), id: 7, name: "chloe", age: 26, email_id: "chloe@lucifer.com", date: 2001-08-19T18:30:00.000+00:00}`
- Document 8: `{_id: ObjectId("62273b4c46a3c28bd5c53d0a"), id: 8, name: "mazikeen", age: 30, email_id: "mazikeen@lucifer.com", date: 2001-12-05T18:30:00.000+00:00}`
- Document 5: `{_id: ObjectId("622741df46a3c28bd5c53d0c"), id: 5, name: "pheobe", age: 27, email_id: "pheobe@friends.com", date: 2022-02-05T18:30:00.000+00:00}`

customer_data.customer_details

DOCUMENTS 10 STORAGE SIZE 20.5KB AVG. SIZE 88B INDEXES 1 TOTAL SIZE 36.9KB AVG. SIZE 36.9KB

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER {id:{\$in:[5,7,8,10]}}

ADD DATA VIEW

Displaying documents 1 - 3 of 3 REFRESH

```
{
  "_id": ObjectId("62273ae246a3c28bd5c53d09"),
  "id": 7,
  "name": "chloe",
  "age": 26,
  "email_id": "chloe.d@lucifer.com",
  "date": 2001-08-19T18:30:00.000+00:00
}
```

```
{
  "_id": ObjectId("62273b4c46a3c28bd5c53d0a"),
  "id": 8,
  "name": "mazikeen",
  "age": 30,
  "email_id": "mazikeenf@lucifer.com",
  "date": 2001-12-05T18:30:00.000+00:00
}
```

		Objectid
1	_id: ObjectId("622741df46a3c28bd5c53d0c")	
2	id: 5	Int32
3	name: "pheobe"	String
4	age: 27	Int32
5	email_id: "pheobe@friends.com"	String
6	date: 2022-02-05T18:30:00.000+00:00	Date

> _MONGOSH

Edited the mail id

Task 6

Collections

Create collection View

customer_details

Storage size: 20.48 kB Documents: 10 Avg. document size: 88.00 B Indexes: 1 Total index size: 36.86 kB

Sort by Collection Name

Create Collection

Collection Name

customer_feedback

☐ Capped Collection

Fixed-size collections that support high-throughput operations that insert and retrieve documents based on insertion order.

☐ Use Custom Collation

Collation allows users to specify language-specific rules for string comparison, such as rules for lettercase and accent marks.

☐ Time-Series

Time-series collections efficiently store sequences of measurements over a period of time.

Cancel Create Collection

> _MONGOSH

Task 7

```
[{"id":0, "name":"joey","Feedback":"Thanks to the course teachers and others associated with designing such a wonderful learning experience.Appreciate each one of your contributions is peer learning and evaluation"}, {"id":1,"name":"chandler","Feedback":"This has just been a long and rambling series of telling us to use technology because it's important to ensure the kids can cope with the digital age and to caution us that while doing so, we should meet the needs of learners and to align with learning objectives rather than use it based on personal whim and fancy"}, {"id":2,"name":"ross ","Feedback":"A wonderful experience and a handy course. The lecturers are great with a very nice way on interacting"}, {"id":3,"name":"rachel","Feedback":"A wonderful experience and a handy course. The lecturers are great with a very nice way on interacting"}, {"id":4,"name":"monica","Feedback":"Well organised and very useful course for online teaching beginners"}, {"id":5,"name":"pheobe","Feedback":"I want to give this course a full 5-star review"}, {"id":6,"name":"lucifer","Feedback":"Inspired me to try a flipped classroom. Provoked me to research several educational technologies"}, {"id":7,"name":"chloe","Feedback":"Very interesting subject but for a course on e-learning the methods are quite modest and a bit obsolete"}, {"id":8,"name":"mazikeen","Feedback":"Very good course that has given an overview of using and implementing web tools appropriately to optimize students performance in their academic experience leading to become an independent learner"}, {"id":9,"name":"ella","Feedback":"Very interesting subject but for a course on e-learning the methods are quite modest and a bit obsolete"}]
```

Insert to Collection

customer_data.customer_feedback

VIEW



```
1 [{"id":0, "name":"joey","Feedback":"Thanks to the course teachers and others as
2 {"id":1,"name":"chandler","Feedback":"This has just been a long and rambling se
3 {"id":2,"name":"ross ","Feedback":"A wonderful experience and a handy course. T
4 {"id":3,"name":"rachel","Feedback":"A wonderful experience and a handy course.
5 {"id":4,"name":"monica","Feedback":"Well organised and very useful course for o
6 {"id":5,"name":"pheobe","Feedback":"I want to give this course a full 5-star re
7 {"id":6,"name":"lucifer","Feedback":"Inspired me to try a flipped classroom. Pr
8 {"id":7,"name":"chloe","Feedback":"Very interesting subject but for a course on
9 {"id":8,"name":"mazikeen","Feedback":"Very good course that has given an overvi
10 {"id":9,"name":"ella","Feedback":"Very interesting subject but for a course on
11
```

Task 8

customer_data.customer_feedback

DOCUMENTS 10STORAGE SIZE4.1KBAVG. SIZE192BINDEXES 1TOTAL SIZE4.1KBAVG. SIZE4.1KB

DocumentsAggregationsSchemaExplain PlanIndexesValidation

FILTER { field: 'value' }

OPTIONS

FIND

RESET

ADD DATA

VIEW

Displaying documents 1 - 10 of 10

DISLIKE: 1like: 4id: 0

```
_id: ObjectId("6227497446a3c28bd5c53d16")
f_id: 1
name: "chandler"
Feedback: "This has just been a long and rambling series of telling us to use tec..."
dislike: 2
like: 3
id: 1
```

1_id: ObjectId("6227497446a3c28bd5c53d17")ObjectId
2_f_id: 1Int32
3_name: "ross"String
4_Feedback: "A wonderful experience and a handy course. Th"String
5_dislike: 0Int32
6_like: 5Int32
7_id: 2Int32

CANCELUPDATE

Task 9

{date:{\$lt:ISODate("8-3-2021")}}

customer_data.customer_details

DOCUMENTS 10STORAGE SIZE20.5KBAVG. SIZE88BINDEXES 1TOTAL SIZE36.9KBAVG. SIZE36.9KB

DocumentsAggregationsSchemaExplain PlanIndexesValidation

FILTER {date:{\$lt:ISODate("8-3-2021")}}

OPTIONS

FIND

RESET

ADD DATA

VIEW

Displaying documents 1 - 8 of 8

customer_details

	_id ObjectId	id Int32	name String	age Int32	email_id String	date Date	
1	622737cb46a3c28bd5c53d02	0	"joey"	25	"joey@friends.com"	2020-05-24T18:30:00.000+00:00	
2	6227387446a3c28bd5c53d03	1	"chandler"	26	"chandler@friends.com"	2014-12-31T18:30:00.000+00:00	
3	622738e146a3c28bd5c53d04	2	"ross"	26	"ross@friends.com"	2001-01-06T18:30:00.000+00:00	
4	6227393f46a3c28bd5c53d05	3	"rachel"	27	"rachel@friends.com"	2001-04-06T18:30:00.000+00:00	
5	62273a7746a3c28bd5c53d08	6	"lucifer"	30	"lucifer@lucifer.com"	2001-09-08T18:30:00.000+00:00	
6	62273ae246a3c28bd5c53d09	7	"chloe"	26	"chloe.d@lucifer.com"	2001-08-19T18:30:00.000+00:00	
7	62273b4c46a3c28bd5c53d0a	8	"mazikeen"	30	"mazikeen@lucifer.com"	2001-12-05T18:30:00.000+00:00	
8	6227424346a3c28bd5c53d0d	4	"monica"	25	"monica@friends.com"	2001-02-28T18:30:00.000+00:00	

Task 10

customer_data.customer_feedback

DOCUMENTS 10 STORAGE SIZE 4.1KB AVG. SIZE 192B INDEXES 1 TOTAL SIZE 4.1KB AVG. SIZE 4.1KB

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER { field: 'value' }

ADD DATA VIEW

Displaying documents 1 - 10 of 10

dislike: 3
like: 2
id: 7

_id: ObjectId("6227497446a3c28bd5c53d1d")
f_id: 8
name: "mazikeen"
Feedback: "Very good course that has given an overview of using and implementing ..."
dislike: 5
like: 0
id: 8

1	_id: ObjectId("6227497446a3c28bd5c53d1e")	ObjectId
2	f_id: 9	Int32
3	name: "ella"	String
4	Feedback: "Very interesting subject but for a course on "	String
5	dislike: 1	Int32
6	like: 4	Int32
7	id: 8	Int32

CANCEL UPDATE

Task 11

customer_data.customer_feedback

DOCUMENTS 10 STORAGE SIZE 4.1KB AVG. SIZE 192B INDEXES 1 TOTAL SIZE 4.1KB AVG. SIZE 4.1KB

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER {like:{>3}}

ADD DATA VIEW

Displaying documents 1 - 5 of 5

f_id: 2
name: "ross"
Feedback: "A wonderful experience and a handy course. The lecturers are great wit..."
dislike: 0
like: 5
id: 2

> _id: ObjectId("6227497446a3c28bd5c53d1a")
f_id: 5
name: "pheobe"
Feedback: "I want to give this course a full 5-star review"
dislike: 1
like: 4
id: 5

_id: ObjectId("6227497446a3c28bd5c53d1b")
f_id: 6
name: "lucifer"
Feedback: "Inspired me to try a flipped classroom. Provoked me to research severa..."
dislike: 0
like: 5
id: 6

>_MONGOSH

Copy all data

```
[{"_id":{"$_oid":"6227497446a3c28bd5c53d15"},"f_id":0,"name":"joey","Feedback":"Thanks to the course teachers and others associated with designing such a wonderful learning experience.Appreciate each one of your contributions is peer learning and evaluation","dislike":1,"like":4,"id":0}
{"_id":{"$_oid":"6227497446a3c28bd5c53d17"},"f_id":2,"name":"ross ","Feedback":"A wonderful experience and a handy course. The lecturers are great with a very nice way on interacting","dislike":0,"like":5,"id":2}
{"_id":{"$_oid":"6227497446a3c28bd5c53d1a"},"f_id":5,"name":"pheobe","Feedback":"I want to give this course a full 5-star review","dislike":1,"like":4,"id":5}
{"_id":{"$_oid":"6227497446a3c28bd5c53d1b"},"f_id":6,"name":"lucifer","Feedback":"Inspired me to try a flipped classroom. Provoked me to research several educational technologies","dislike":0,"like":5,"id":6}
{"_id":{"$_oid":"6227497446a3c28bd5c53d1e"},"f_id":9,"name":"ella","Feedback":"Very interesting subject but for a course on e-learning the methods are quite modest and a bit obsolete","dislike":1,"like":4,"id":9}]
```

	_id ObjectId	f_id Int32	name String	Feedback String	dislike Int32
1	6227497446a3c28bd5c53d15	0	"joey"	"Thanks to the course teachers	1
2	6227497446a3c28bd5c53d17	2	"ross "	"A wonderful experience and a h	0
3	6227497446a3c28bd5c53d1a	5	"pheobe"	"I want to give this course a f	1
4	6227497446a3c28bd5c53d1b	6	"lucifer"	"Inspired me to try a flipped c	0
5	6227497446a3c28bd5c53d1e	9	"ella"	"Very interesting subject but f	1

Task 12

```
[{"id":0,"name":"joey","Feedback":"Thanks to the course teachers and others associated with designing such a wonderful learning experience.Appreciate each one of your contributions is peer learning and evaluation"},
{"id":1,"name":"chandler","Feedback":"This has just been a long and rambling series of telling us to use technology because it's important to ensure the kids can cope with the digital age and to caution us that while doing so, we should meet the needs of learners and to align with learning objectives rather than use it based on personal whim and fancy"},
{"id":2,"name":"ross","Feedback":"A wonderful experience and a handy course. The lecturers are great with a very nice way on interacting"},
{"id":3,"name":"rachel","Feedback":"A wonderful experience and a handy course. The lecturers are great with a very nice way on interacting"},
{"id":4,"name":"monica","Feedback":"Well organised and very useful course for online teaching beginners"},
{"id":5,"name":"pheobe","Feedback":"I want to give this course a full 5-star review"},
{"id":6,"name":"lucifer","Feedback":"Inspired me to try a flipped classroom. Provoked me to research several educational technologies"},
{"id":7,"name":"chloe","Feedback":"Very interesting subject but for a course on e-learning the methods are quite modest and a bit obsolete"},
{"id":8,"name":"mazikeen","Feedback":"Very good course that has given an overview of using and implementing web tools appropriately to optimize students performance in their academic experience leading to become an independent learner"},
{"id":9,"name":"ella","Feedback":"Very interesting subject but for a course on e-learning the methods are quite modest and a bit obsolete"}]
```


Local

6 DBS 7 COLLECTIONS

localhost:27017

Cluster Standalone

Edition MongoDB 5.0.6 Community

Filter your data

admin

config

customer_data

customer_details

customer_feedback

positive_feedback

local

restaurant

students_data

customer_data.customer_feedback

Documents

Filter { field: 'value' }

ADD DATA

VIEW {}

Insert to Collection customer_data.customer_feedback

```
1 [{"id":10,"name":"joey","Feedback":"Thanks to the course teachers and others a:
2 {"id":11,"name":"chandler","Feedback":"This has just been a long and rambling s
3 {"id":12,"name":"ross ","Feedback":"A wonderful experience and a handy course.
4 {"id":13,"name":"rachel","Feedback":"A wonderful experience and a handy course.
5 {"id":14,"name":"monica","Feedback":"Well organised and very useful course for
6 {"id":15,"name":"pheobe","Feedback":"I want to give this course a full 5-star r
7 {"id":16,"name":"lucifer","Feedback":"Inspired me to try a flipped classroom. P
8 {"id":17,"name":"chloe","Feedback":"Very interesting subject but for a course o
9 {"id":18,"name":"mazikeen","Feedback":"Very good course that has given an overv
10 {"id":19,"name":"ella","Feedback":"Very interesting subject but for a course on
11
```

Cancel Insert

STORAGE SIZE 4.1KB AVG. SIZE 192B INDEXES 1 TOTAL SIZE 4.1KB AVG. SIZE 4.1KB

OPTIONS FIND RESET

Displaying documents 1 - 10 of 10

REFRESH

6 DBS 7 COLLECTIONS

localhost:27017

Cluster Standalone

Edition MongoDB 5.0.6 Community

Filter your data

admin

config

customer_data

customer_details

customer_feedback

positive_feedback

local

restaurant

students_data

customer_data.customer_feedback

Documents Aggregations Schema Explain Plan Indexes Validation

Filter { field: 'value' }

ADD DATA

VIEW {}

Displaying documents 1 - 20 of 20

REFRESH

	_id ObjectId	f_id Int32	name String	Feedback String	dislike Int32	
9	6227497446a3c28bd5c53d1d	8	"mazikeen"	"Very good course that has give	5	
10	6227497446a3c28bd5c53d1e	9	"ella"	"Very interesting subject but f	1	
11	62276c7646a3c28bd5c53d50	No field	"joey"	"Thanks to the course teachers	No field	
12	62276c7646a3c28bd5c53d51	No field	"chandler"	"This has just been a long and	No field	
13	62276c7646a3c28bd5c53d52	No field	"ross "	"A wonderful experience and a h	No field	
14	62276c7646a3c28bd5c53d53	No field	"rachel"	"A wonderful experience and a h	No field	
15	62276c7646a3c28bd5c53d54	No field	"monica"	"Well organised and very useful	No field	
16	62276c7646a3c28bd5c53d55	No field	"pheobe"	"I want to give this course a f	No field	
17	62276c7646a3c28bd5c53d56	No field	"lucifer"	"Inspired me to try a flipped c	No field	
18	62276c7646a3c28bd5c53d57	No field	"chloe"	"Very interesting subject but f	No field	
19	62276c7646a3c28bd5c53d58	No field	"mazikeen"	"Very good course that has give	No field	
20	62276c7646a3c28bd5c53d59	No field	"ella"	"Very interesting subject but f	No field	

>_MONGOSH