

MongoDB

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SYM408 – Relational Databases for Business Applications

Grand Canyon University

Professor Bill Hughes

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Part 1: Create New Collection of Hotel Documents

Create Database

Database Name

Collection Name

> **Advanced Collection Options** (e.g. Time-Series, Capped, Clustered collections)

MongoDB Compass - localhost:27017/hotels_db

Connect View Help

localhost:27017

7 DBS 7 COLLECTIONS

☆ FAVORITE

HOST
localhost:27017

CLUSTER
Standalone

EDITION
MongoDB 5.0.5 Community

My Queries

Databases

Filter your data

Company

GeneratedData

Hotels

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hotels_db

hotels

local

Collections

Create collection View

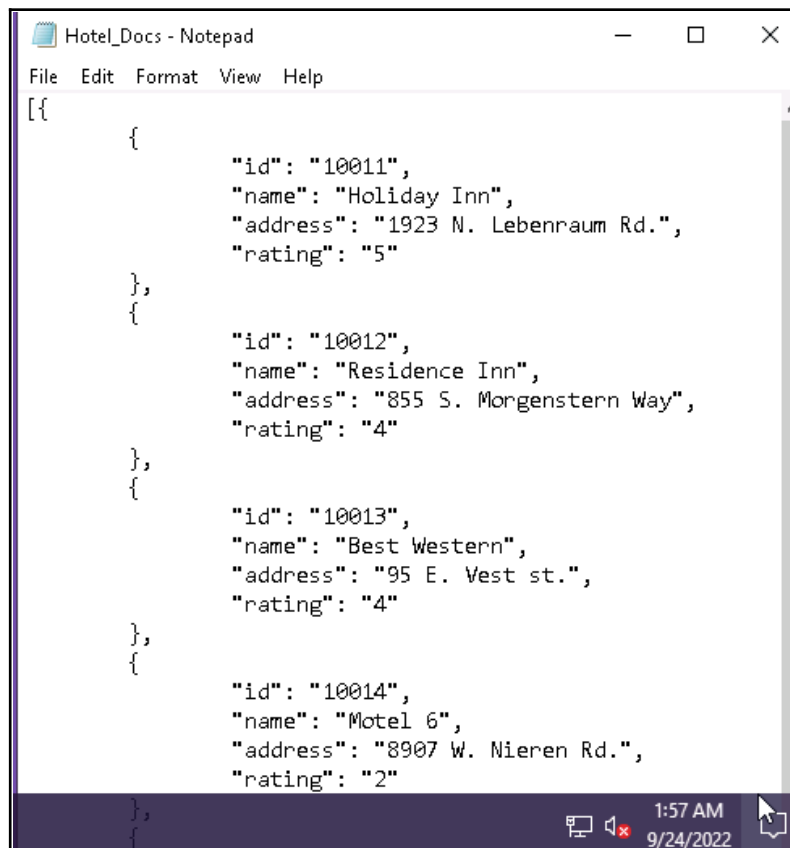
Sort by Collection Name

hotels

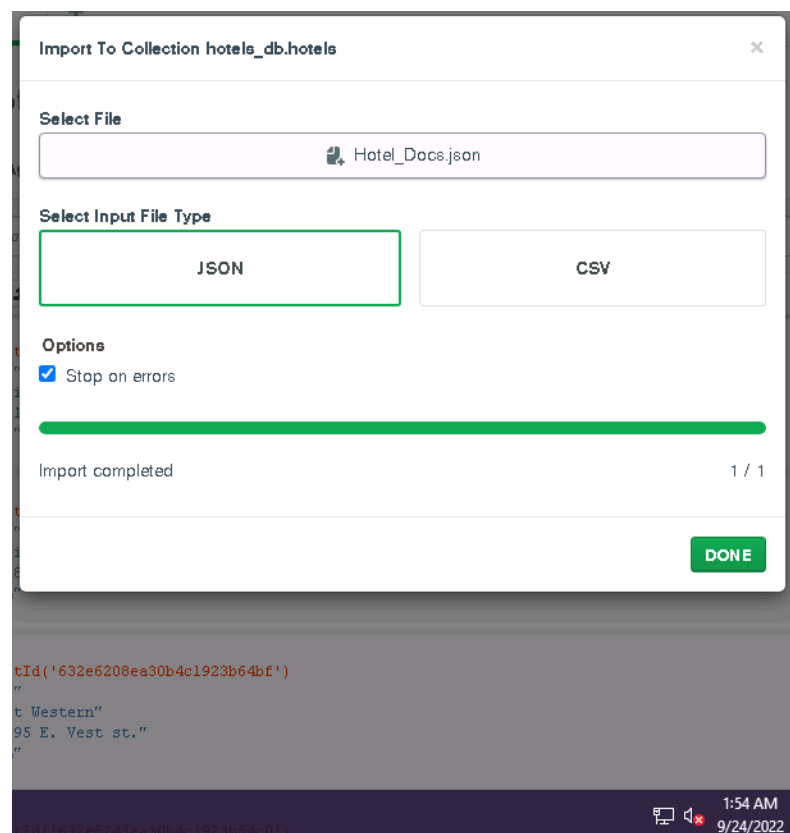
Storage size:	Documents:	Avg. document size:	Indexes:	Total index size:
4.10 kB	0	0 B	1	4.10 kB

1:16 AM
9/24/2022

Part 2: Create Documents



```
[{
  {
    "id": "10011",
    "name": "Holiday Inn",
    "address": "1923 N. Lebenraum Rd.",
    "rating": "5"
  },
  {
    "id": "10012",
    "name": "Residence Inn",
    "address": "855 S. Morgenstern Way",
    "rating": "4"
  },
  {
    "id": "10013",
    "name": "Best Western",
    "address": "95 E. Vest st.",
    "rating": "4"
  },
  {
    "id": "10014",
    "name": "Motel 6",
    "address": "8907 W. Nieren Rd.",
    "rating": "2"
  }
}]
```



MongoDB Compass - localhost:27017/hotels_db.hotels

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Documents
hotels_db.hotels

hotels_db.hotels

8 DOCUMENTS 1 INDEXES

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER { field: 'value' }

ADD DATA VIEW

Displaying documents 1 - 8 of 8

#	_id ObjectId	id String	name String	address String	rating String
1	ObjectId('632e60f2ea30b4c1923b...')	"10011"	"Holiday Inn"	"1923 N. Lebenraum Rd."	"5"
2	ObjectId('632e61bfea30b4c1923b...')	"10012"	"Residence Inn"	"855 S. Morgenstern Way"	"4"
3	ObjectId('632e6208ea30b4c1923b...')	"10013"	"Best Western"	"95 E. Vest st."	"4"
4	ObjectId('632e6243ea30b4c1923b...')	"10014"	"Motel 6"	"8907 W. Nieren Rd."	"2"
5	ObjectId('632e625eea30b4c1923b...')	"10015"	"Marriott"	"420 Tannbaum Ave."	"5"
6	ObjectId('632e6291ea30b4c1923b...')	"10016"	"La Quinta"	"4772 N. Bayern Rd."	"3"
7	ObjectId('632e62aeea30b4c1923b...')	"10017"	"Double Tree"	"12 E. Danube St."	"5"
8	ObjectId('632e634dea30b4c1923b...')	"10018"	"Bestest Hotel Ever"	"1000 N. Beste Ave."	"100"

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Part 3: Read the Documents in Collection

MongoDB Compass - localhost:27017/hotels_db.hotels

Connect View Help

localhost:27017

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hotels_db

hotels

Documents
hotels_db.hotels

hotels_db.hotels

8 DOCUMENTS 1 INDEXES

Documents Aggregations Schema Explain Plan Indexes Validation

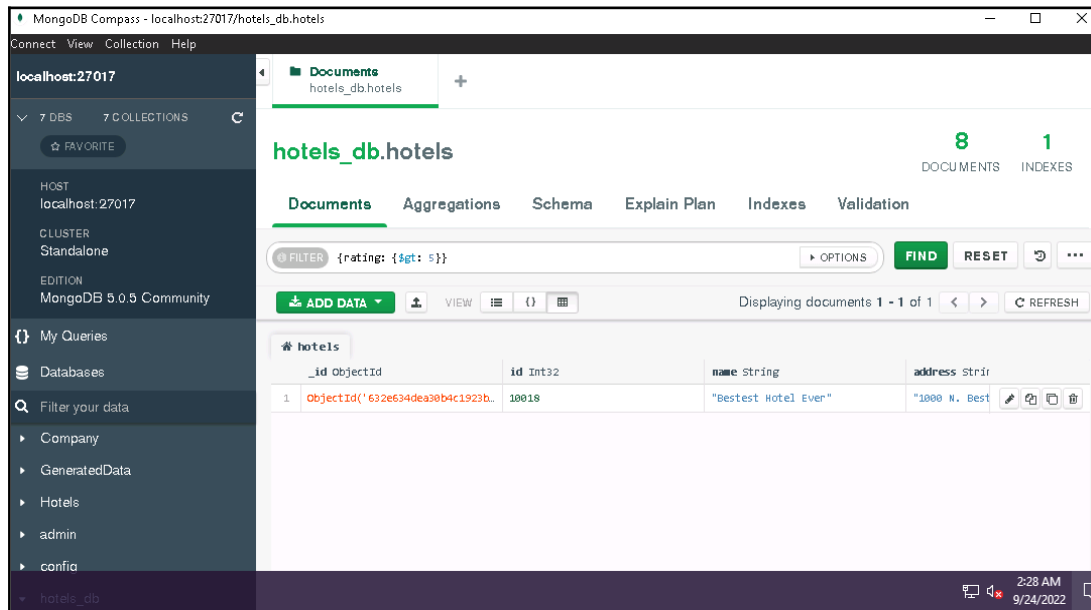
FILTER {rating: {\$gt: "0"}}

ADD DATA VIEW

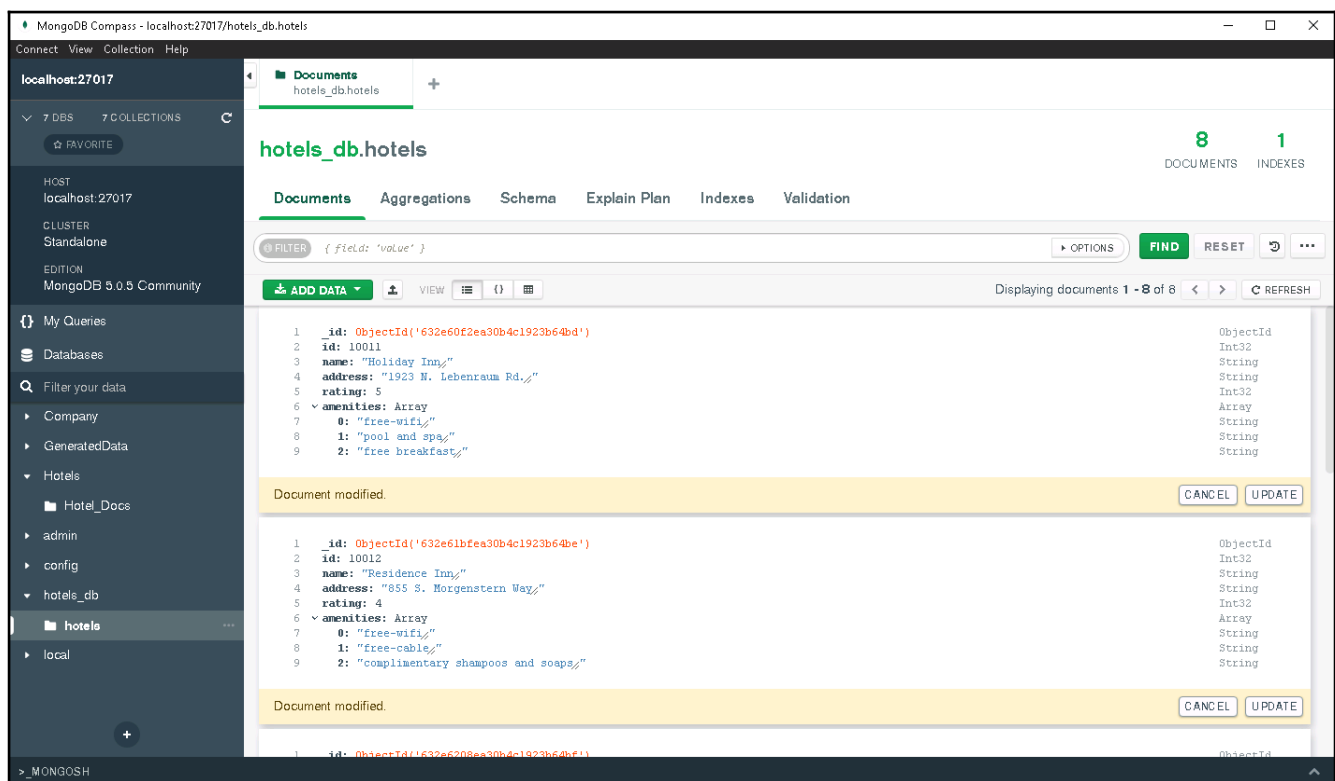
Displaying documents 1 - 8 of 8

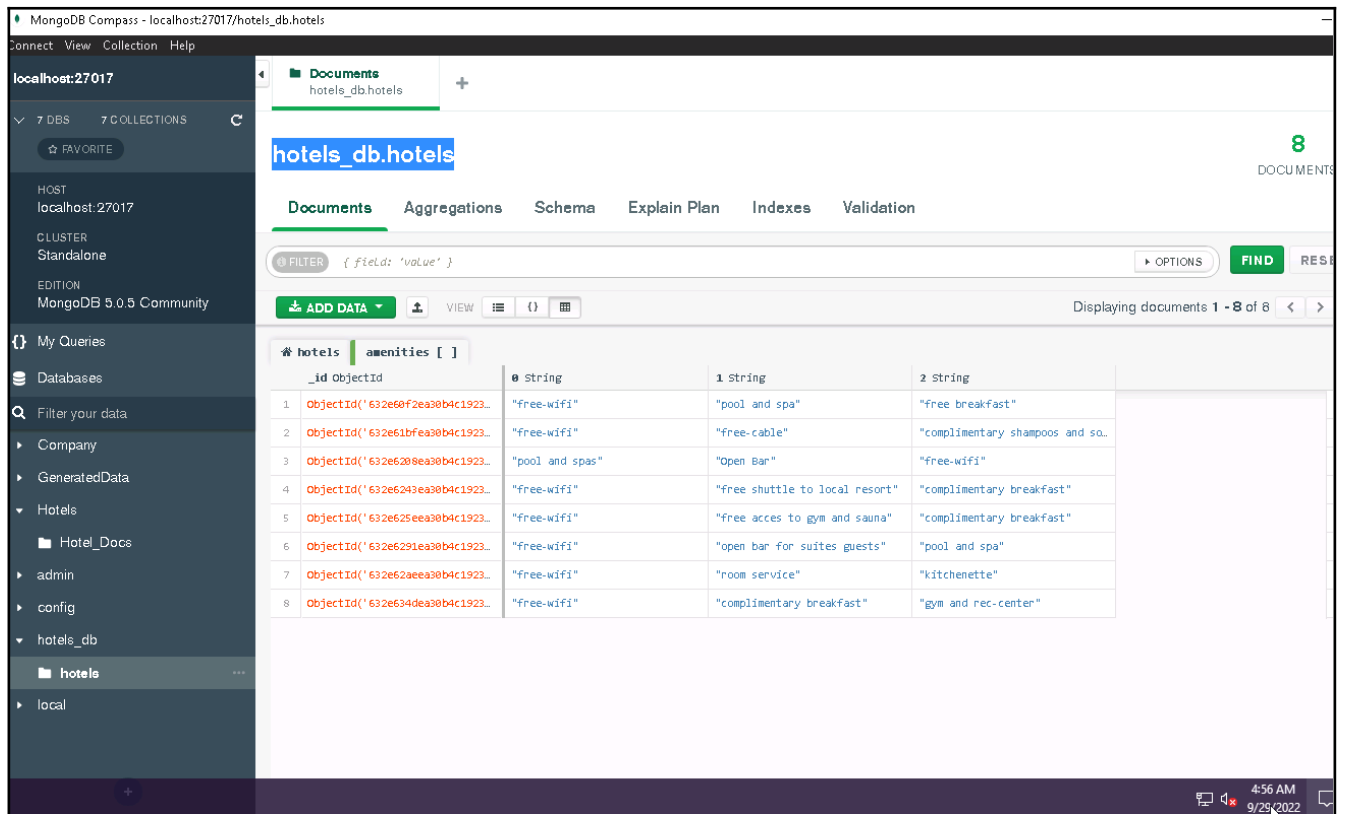
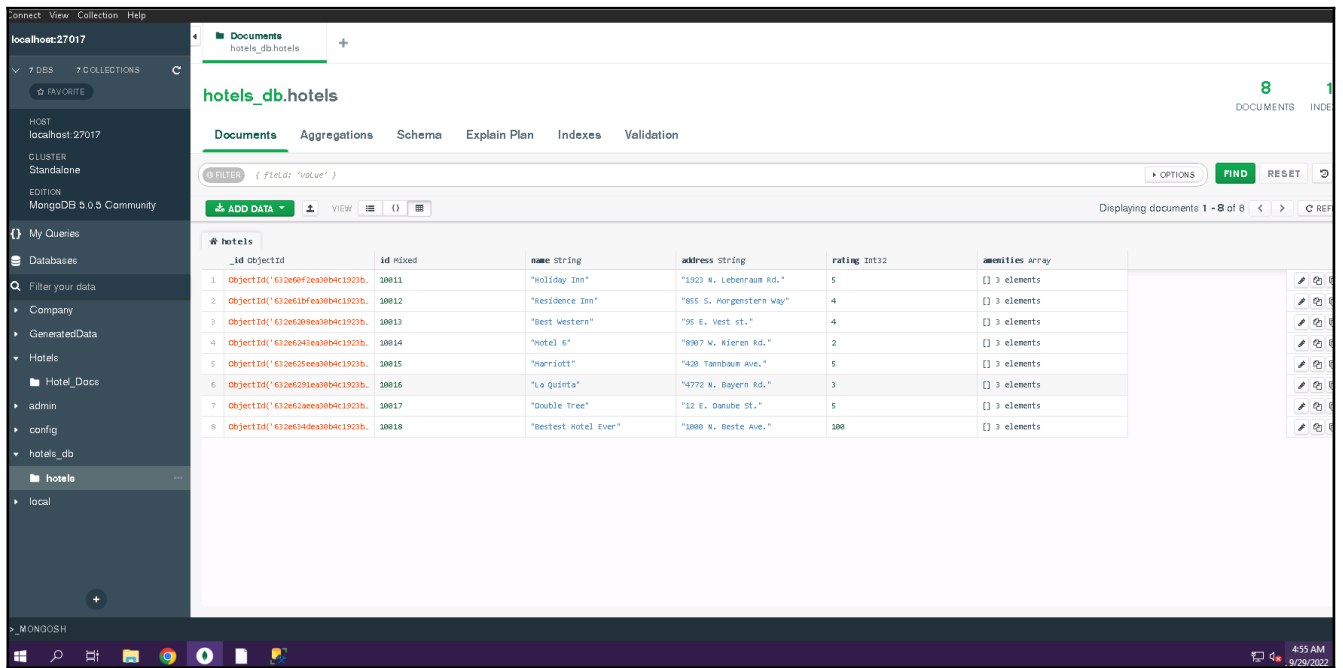
#	_id ObjectId	id String	name String	address String	rating String
1	ObjectId('632e60f2ea30b4c1923b...')	"10011"	"Holiday Inn"	"1923 N. Lebenraum Rd."	"5"
2	ObjectId('632e61bfea30b4c1923b...')	"10012"	"Residence Inn"	"855 S. Morgenstern Way"	"4"
3	ObjectId('632e6208ea30b4c1923b...')	"10013"	"Best Western"	"95 E. Vest st."	"4"
4	ObjectId('632e6243ea30b4c1923b...')	"10014"	"Motel 6"	"8907 W. Nieren Rd."	"2"
5	ObjectId('632e625eea30b4c1923b...')	"10015"	"Marriott"	"420 Tannbaum Ave."	"5"
6	ObjectId('632e6291ea30b4c1923b...')	"10016"	"La Quinta"	"4772 N. Bayern Rd."	"3"
7	ObjectId('632e62aeea30b4c1923b...')	"10017"	"Double Tree"	"12 E. Danube St."	"5"
8	ObjectId('632e634dea30b4c1923b...')	"10018"	"Bestest Hotel Ever"	"1000 N. Beste Ave."	"100"

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Part 4: Update the Documents to Include Hotel Amenities





Part 5: Query for One of the Amenities

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hotels_db.hotels

hotels_db.hotels

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER {amenities: "pool and spa"}

ADD DATA

VIEW

```
{
  "_id": ObjectId('632e60f2ea30b4c1923b64bd'),
  "id": 10011,
  "name": "Holiday Inn",
  "address": "1923 N. Lebenraum Rd.",
  "rating": 5,
  "amenities": Array
    0: "free-wifi"
    1: "pool and spa"
    2: "free breakfast"
}
```

```
{
  "_id": ObjectId('632e6291ea30b4c1923b64c2'),
  "id": 10016,
  "name": "La Quinta",
  "address": "4772 N. Bayern Rd.",
  "rating": 3,
  "amenities": Array
    0: "free-wifi"
    1: "open bar for suites guests"
    2: "pool and spa"
}
```

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10/1/2022