

Introducción a bases de datos

Sesión 6

Adrian González Pardo

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1. Ejemplos

1.1. Ejemplo 1

sample_airbnb.listingsAndReviews

Documents Aggregations Schema Explain Plan Indexes Val

FILTER {transit: /Metro/}

ADD DATA VIEW

```
{
  "_id": "10006546"
  "listing_url": "https://www.airbnb.com/rooms/10006546"
  "name": "Ribeira Charming Duplex"
  "summary": "Fantastic duplex apartment with three bedrooms, located in the histori..."
  "space": "Privileged views of the Douro River and Ribeira square, our apartment ..."
  "description": "Fantastic duplex apartment with three bedrooms, located in the histori..."
  "neighborhood_overview": "In the neighborhood of the river, you can find several restaurants as ..."
  "notes": "Lose yourself in the narrow streets and staircases zone, have lunch in ..."
  "transit": "Transport: • Metro station and S. Bento railway 5min; • Bus stop a 50 ..."
  "access": "We are always available to help guests. The house is fully available t..."
  "interaction": "Cot - 10 € / night Dog - € 7,5 / night"
  "house_rules": "Make the house your home..."
  "property_type": "House"
  "room_type": "Entire home/apt"
  "bed_type": "Real Bed"
  "minimum_nights": "2"
  "maximum_nights": "90"
  "cancellation_policy": "moderate"
  "last_scraped": 2019-02-16T05:00:00.000+00:00
  "calendar_last_scraped": 2019-02-16T05:00:00.000+00:00
  "first_review": 2010-01-03T05:00:00.000+00:00
  "last_review": 2019-01-20T05:00:00.000+00:00
  "accommodates": 8
  "bedrooms": 3
  "beds": 5
}
```

SHOW 14 MORE FIELDS

sample_airbnb.listingsAndReviews

Documents

Aggregations

Schema

Explain Plan

Indexes

Vali

0 FILTER

{transit: /Metro/i}

ADD DATA

VIEW

```
_id: "10006546"
listing_url: "https://www.airbnb.com/rooms/10006546"
name: "Ribeira Charming Duplex"
summary: "Fantastic duplex apartment with three bedrooms, located in the histori..."
space: "Privileged views of the Douro River and Ribeira square, our apartment ..."
description: "Fantastic duplex apartment with three bedrooms, located in the histori..."
neighborhood_overview: "In the neighborhood of the river, you can find several restaurants as ..."
notes: "Lose yourself in the narrow streets and staircases zone, have lunch in..."
transit: "Transport: • Metro station and S. Bento railway Smin; • Bus stop a 50 ..."
access: "We are always available to help guests. The house is fully available t..."
interaction: "Cot - 10 € / night Dog - € 7,5 / night"
house_rules: "Make the house your home..."
property_type: "house"
room_type: "Entire home/apt"
bed_type: "Real Bed"
minimum_nights: "2"
maximum_nights: "30"
cancellation_policy: "moderate"
last_scraped: 2019-02-10T05:00:00.000+00:00
calendar_last_scraped: 2019-02-10T05:00:00.000+00:00
first_review: 2016-01-03T05:00:00.000+00:00
last_review: 2019-01-20T05:00:00.000+00:00
accommodates: 8
bedrooms: 3
beds: 5
```

SHOW 14 MORE FIELDS

>

```
_id: "10038496"
listing_url: "https://www.airbnb.com/rooms/10038496"
name: "Copacabana Apartment Posto 6"
summary: "The Apartment has a living room, toilet, bedroom (suite) and American ..."
space: "The apartment has a living room, wash room, suite and an American kitc..."
description: "The Apartment has a living room, toilet, bedroom (suite) and American ..."
neighborhood_overview: "Copacabana in the South zone is the district that offers the greatest ..."
notes: ""
transit: "On the street there is plenty of transport and the subway station is n..."
access: "todo o espaço."
interaction: "Contact telephone numbers if needed: Valeria ((PHONE NUMBER HIDDEN)) (U..."
```

sample_mflix.users

Documents

Aggregations

Schema

Explain Plan

Inc

0 FILTER

{email: /~/}

ADD DATA

VIEW

```
_id: ObjectId("5db1c37e4a68c31f10cf0a98")
name: "Magical Mr. Mistoffelees"
email: "magicz@cats.com"
password: "somehashedpw"
```

```
_id: ObjectId("59b99dbacf9a34dc7885c1")
name: "Arya Stark"
email: "maisie_williams@gameofthron.es"
password: "$2b$12$19h3KjeTg3/SPNFHtZdb6e6WKCxIwLVXVSh9POS15P59KSlguZEQ"
```

```
_id: ObjectId("59b99db4cf9a34dc7885b7")
name: "Robert Baratheon"
email: "mark_addy@gameofthron.es"
password: "$2b$12$yQxLG9LZpXAX2xVDhuPnsOZd.VURVz7wg0LY3pn09s7u2S1Z032y"
```

```
_id: ObjectId("59b99dbcf9a34dc7885e4")
name: "Grenn"
email: "mark_stanley@gameofthron.es"
password: "$2b$12$pggDQ2RBHotU4x/ppd0P9ueseDdLTzFHB.4kjkez/ZNerubyFSy1i"
```

```
_id: ObjectId("59b99e02cf9a34dc7885c")
name: "Mary Mitchell"
email: "mary_mitchell@fakegmail.com"
password: "$2b$12$rT8TmryDDeU46H.g1vVcePTByl85Y/vZ/awAn3e0XCke.bKXhr96"
```

sample_mflix.users

Documents

Aggregations

Schema

0 FILTER

{email: /@cats.com\$/}

ADD DATA

VIEW

```
_id: ObjectId("5db1c37e4a68c31f10cf0a98")
name: "Magical Mr. Mistoffelees"
email: "magicz@cats.com"
password: "somehashedpw"
```

sample_mflix.users

Documents Aggregations Schema Explain Plan

0 FILTER {email: /.+@.+/}

ADD DATA VIEW { } ▢

```

_id: ObjectId("50b99db7cfa9a34dcd7885bd")
name: "Petyr Baelish"
email: "aidan_gillen@gameofthron.es"
password: "$2b$12$QW.Yvm1eKyYY7p7phpK301cbRCdKN7ESwYAnG/o9YnfHC0Hkmb1"

_id: ObjectId("50b99db7cfa9a34dcd7885c3")
name: "Theon Greyjoy"
email: "alfie_allen@gameofthron.es"
password: "$2b$12$X574mzirId53MEQVTbKby.LK.ngIDyZ3nTw17676k6n4lnWsrWL."

_id: ObjectId("50b99db7cfa9a34dcd7885ee")
name: "Irri"
email: "amrita_acharia@gameofthron.es"
password: "$2b$12$mtvd3eFagflQ074rs952K0FU3wKRe5alg.iM23AkNnpZ/Tdt05ek"

```

Ejemplos de expresiones regulares

1.2. Ejemplo 2

sample_airbnb.listingsAndReviews

Documents Aggregations Schema Explain Plan Indexes

0 FILTER {"address.country": "Spain"}

ADD DATA VIEW { } ▢

```

_id: "10082422"
listing_url: "https://www.airbnb.com/rooms/10082422"
name: "Nice room in Barcelona Center"
summary: "Hi! Cozy double bed room in amazing flat next to Passeig de Sant Joan..."
space: "Nice flat in the central neighborhood of Eixample."
description: "Hi! Cozy double bed room in amazing flat next to Passeig de Sant Joan..."
neighborhood_overview: "Dreta de l'Eixample"
notes: ""
transit: ""
access: "Ideal couple or 2 friends."
interaction: ""
house_rules: ""
property_type: "Apartment"
room_type: "Private room"
bed_type: "Real Bed"
minimum_nights: "1"
maximum_nights: "9"
cancellation_policy: "flexible"
last_scraped: 2019-03-08T05:00:00.000+00:00
calendar_last_scraped: 2019-03-08T05:00:00.000+00:00
accommodates: 2
bedrooms: 1
beds: 2
number_of_reviews: 0
bathrooms: 1.0
amenities: Array
  price: 50.00
  security_deposit: 100.00
  cleaning_fee: 10.00
  extra_people: 0.00
  guests_included: 1
  images: Object
  host: Object
  address: Object
    street: "Barcelona, Catalunya, Spain"
    suburb: "Eixample"
    government_area: "la Dreta de l'Eixample"
    market: "Barcelona"
    country: "Spain"
    country_code: "ES"
  location: Object
  availability: Object
  review_scores: Object
  reviews: Array

```

HIDE 12 FIELDS

sample_airbnb.listingsAndReviews

Documents Aggregations Schema Explain Plan Indexes

FILTER {amenities: {\$in: ["Kitchen"]}}

ADD DATA VIEW

```

_id: "10006546"
listing_url: "https://www.airbnb.com/rooms/10006546"
name: "Ribeira Charming Duplex"
summary: "Fantastic duplex apartment with three bedrooms, located in the histori..."
space: "Privileged views of the Douro River and Ribeira square, our apartment ..."
description: "Fantastic duplex apartment with three bedrooms, located in the histori..."
neighborhood_overview: "In the neighborhood of the river, you can find several restaurants as ..."
notes: "Lose yourself in the narrow streets and staircases zone, have lunch in..."
transit: "Transport: • Metro station and S. Bento railway main; • Bus stop a 50 ..."
access: "We are always available to help guests. The house is fully available t..."
interaction: "Cot - 10 € / night Dog - € 7,5 / night"
house_rules: "Make the house your home..."
property_type: "House"
room_type: "Entire home/apt"
bed_type: "Real Bed"
minimum_nights: "2"
maximum_nights: "30"
cancellation_policy: "moderate"
last_scraped: 2019-02-10T05:00:00.000+00:00
calendar_last_scraped: 2019-02-10T05:00:00.000+00:00
first_review: 2016-01-03T05:00:00.000+00:00
last_review: 2019-01-20T05:00:00.000+00:00
accommodates: 8
bedrooms: 3
beds: 5
number_of_reviews: 51
bathrooms: 1.0
amenities: Array
  0: "TV"
  1: "Cable TV"
  2: "Wifi"
  3: "Kitchen"
  4: "Paid parking off premises"
  5: "Smoking allowed"
  6: "Pets allowed"
  7: "Buzzer/wireless intercom"

```

sample_airbnb.listingsAndReviews

DOCUMENTS 5.6

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER {price: {\$lte: 100}, "address.country_code": "ES", "review_scores.review_scores_rating": {\$gte: 50}, amenities: {\$in: ["Internet", "Wifi"]}, amenities: {\$in: ["Elevator"]}}

ADD DATA VIEW

```

_id: "10677883"
listing_url: "https://www.airbnb.com/rooms/10677883"
name: "Great location in Barcelona"
summary: "Hello, if you are looking to stay in Barcelona here is a nice and calm..."
space: "Is like seen in the pictures, not new but functional."
description: "Hello, if you are looking to stay in Barcelona here is a nice and calm..."
neighborhood_overview: "One of the best in town"
notes: ""
transit: "Bus, train, metro and taxi."
access: "Whole apartment."
interaction: "No estare infelizmente"
house_rules: "I would be happy if people that stays make no noisy after 22 o'clock, ..."
property_type: "Apartment"
room_type: "Entire home/apt"
bed_type: "Real Bed"
minimum_nights: "200"
maximum_nights: "1125"
cancellation_policy: "Strict 14 with grace period"
last_scraped: 2019-03-08T05:00:00.000+00:00
calendar_last_scraped: 2019-03-08T05:00:00.000+00:00
first_review: 2016-01-10T05:00:00.000+00:00
last_review: 2016-03-01T05:00:00.000+00:00
accommodates: 5
bedrooms: 4
beds: 4
number_of_reviews: 2
bathrooms: 1.0
amenities: Array
  price: 31.00
  security_deposit: 100.00
  cleaning_fee: 7.00
  extra_people: 0.00
  guests_included: 2
  images: Object
  host: Object
  address: Object
  availability: Object

```

SHOW 2 MORE FIELDS HIDE 12 FIELDS

```

_id: "1070322"
listing_url: "https://www.airbnb.com/rooms/1070322"
name: "Triple room Barcelona Guell park"
summary: "Private room in family home"
space: "I own another double room also mentioned on this web room with three b..."
description: "Private room in family home I own another double room also mentioned o..."
neighborhood_overview: ""
notes: ""

```

Ejemplos de uso de expresión punto y consulta en arreglos

1.3. Ejemplo 3

sample_airbnb.listingsAndReviews

DocumentsAggregationsSchemaExplain PlanIndexesValidation

COLLATIONUntitled - ModifiedSAVE

TOTAL SIZE5.6kAVG SIZE90.0MBINDEXES4552.0KB

SAMPLE MODEAUTO PREVIEW

5555 Documents in the CollectionPreview of Documents in the Collection

Select an operator to construct expressions used in the aggregation pipeline stages.[Learn more](#)

_id:"10000546"listing_url:"https://www.airbnb.com/rooms/10000546"name:"Ribeira Charming Duplex"summary:"Fantastic duplex apartment with three bedrooms, located in the historical heart of Lisbon, near the Douro River and Ribeira square, our apartment ... "space:"Privileged views of the Douro River and Ribeira square, our apartment ... "description:"Fantastic duplex apartment with three bedrooms, located in the historical heart of Lisbon, near the Douro River and Ribeira square, our apartment ... "

_id:"10009999"listing_url:"https://www.airbnb.com/rooms/10009999"name:"Horto flat with small garden"summary:"One bedroom + sofa-bed in quiet and bucolic neighbourhood right next t... "space:"Lovely one bedroom + sofa-bed in the living room, perfect for two but ... "description:"One bedroom + sofa-bed in quiet and bucolic neighbourhood right next t... "

_id:"1001265"listing_url:"https://www.airbnb.com/rooms/1001265"summary:"A short distance from Honolulu's billion dollar mall, and the same dis... "space:"Great studio located on Ala Moana across the street from Yacht Harbor ... "description:"A short distance from Honolulu's billion dollar mall, and the same dis... "

_id:"1001265"listing_url:"https://www.airbnb.com/rooms/1001265"summary:"A short distance from Honolulu's billion dollar mall, and the same dis... "space:"Great studio located on Ala Moana across the street from Yacht Harbor ... "description:"A short distance from Honolulu's billion dollar mall, and the same dis... "

\$addFieldsOutput after \$addFields stage (Sample of 20 documents)

```
1 {
2   servicios: {$size: '$amenities'}
3 }
```

_id:"10000546"listing_url:"https://www.airbnb.com/rooms/10000546"name:"Ribeira Charming Duplex"summary:"Fantastic duplex apartment with three bedrooms, located in the historical heart of Lisbon, near the Douro River and Ribeira square, our apartment ... "space:"Privileged views of the Douro River and Ribeira square, our apartment ... "description:"Fantastic duplex apartment with three bedrooms, located in the historical heart of Lisbon, near the Douro River and Ribeira square, our apartment ... "

_id:"10009999"listing_url:"https://www.airbnb.com/rooms/10009999"summary:"One bedroom + sofa-bed in quiet and bucolic neighbourhood right next t... "space:"Lovely one bedroom + sofa-bed in the living room, perfect for two but ... "description:"One bedroom + sofa-bed in quiet and bucolic neighbourhood right next t... "

_id:"1001265"listing_url:"https://www.airbnb.com/rooms/1001265"summary:"A short distance from Honolulu's billion dollar mall, and the same dis... "space:"Great studio located on Ala Moana across the street from Yacht Harbor ... "description:"A short distance from Honolulu's billion dollar mall, and the same dis... "

_id:"1001265"listing_url:"https://www.airbnb.com/rooms/1001265"summary:"A short distance from Honolulu's billion dollar mall, and the same dis... "space:"Great studio located on Ala Moana across the street from Yacht Harbor ... "description:"A short distance from Honolulu's billion dollar mall, and the same dis... "

sample_airbnb.listingsAndReviews

DocumentsAggregationsSchemaExplain PlanIndexesValidation

COLLATIONUntitled - ModifiedSAVE

TOTAL SIZE5.6kAVG SIZE90.0MBINDEXES4552.0KB

SAMPLE MODEAUTO PREVIEW

5555 Documents in the CollectionPreview of Documents in the Collection

Select an operator to construct expressions used in the aggregation pipeline stages.[Learn more](#)

calendar.last_scraped:2019-02-18T00:00:00+00:00;first_review:2019-01-03T05:00:00+00:00last_review:2019-01-20T05:00:00+00:00accommodates:8bedrooms:3beds:5

_id:"10009999"listing_url:"https://www.airbnb.com/rooms/10009999"name:"Horto flat with small garden"summary:"One bedroom + sofa-bed in quiet and bucolic neighbourhood right next t... "space:"Lovely one bedroom + sofa-bed in the living room, perfect for two but ... "description:"One bedroom + sofa-bed in quiet and bucolic neighbourhood right next t... "

_id:"1001265"listing_url:"https://www.airbnb.com/rooms/1001265"summary:"A short distance from Honolulu's billion dollar mall, and the same dis... "space:"Great studio located on Ala Moana across the street from Yacht Harbor ... "description:"A short distance from Honolulu's billion dollar mall, and the same dis... "

_id:"1001265"listing_url:"https://www.airbnb.com/rooms/1001265"summary:"A short distance from Honolulu's billion dollar mall, and the same dis... "space:"Great studio located on Ala Moana across the street from Yacht Harbor ... "description:"A short distance from Honolulu's billion dollar mall, and the same dis... "

\$projectOutput after \$project stage (Sample of 20 documents)

```
1 {
2   name: 1,
3   servicios: 1,
4   _id: 0
5 }
6
```

name:"Ribeira Charming Duplex"servicios:32

name:"Horto flat with small garden"servicios:15

name:"Ocean View Waikiki Marina w/prkg"servicios:30

name:"Ocean View Waikiki Marina w/prkg"servicios:30

sample_airbnb.listingsAndReviews

Documents Aggregations Schema Explain Plan Indexes Validation

COLLATION Untitled- Modified SAVE

5555 Documents in the Collection Preview of Documents in the Collection

Select an operator to construct expressions used in the aggregation pipeline stages. [Learn more](#)

```
calendar_last_scraped: 2019-02-16T05:00:00.000+00:00
first_review: 2016-01-03T05:00:00.000+00:00
last_review: 2019-01-20T05:00:00.000+00:00
accommodates: 8
bedrooms: 3
beds: 5
```

SHOW 14 MORE FIELDS

```
_id: "10009999"
listing_url: "https://www.airbnb.com/rooms/10009999"
name: "Horto flat with small garden"
summary: "One bedroom + sofa-bed in quiet and buco neighbourhood right next t..."
space: "Lovely one bedroom + sofa-bed in the living room, perfect for two but ..."
description: "One bedroom + sofa-bed in quiet and l neighbourhood right next r..."
```

Output after \$addFields stage (Sample of 20 documents)

Output after \$project stage (Sample of 20 documents)

Output after \$sort stage (Sample of 20 documents)

```
1- {
2   servicios: -1
3 }
```

```
name: "Sublime loft with private roof top @ Old Montreal"
servicios: 76
```

```
name: "Barcelona Super Central Apartment"
servicios: 72
```

sample_airbnb.listingsAndReviews

Documents Aggregations Schema Explain Plan Indexes Validation

COLLATION Untitled- Modified SAVE

5555 Documents in the Collection Preview of Documents in the Collection

Select an operator to construct expressions used in the aggregation pipeline stages. [Learn more](#)

```
calendar_last_scraped: 2019-02-16T05:00:00.000+00:00
first_review: 2016-01-03T05:00:00.000+00:00
last_review: 2019-01-20T05:00:00.000+00:00
accommodates: 8
bedrooms: 3
beds: 5
```

SHOW 14 MORE FIELDS

```
_id: "10009999"
listing_url: "https://www.airbnb.com/rooms/10009999"
name: "Horto flat with small garden"
summary: "One bedroom + sofa-bed in quiet and buco neighbourhood right next t..."
space: "Lovely one bedroom + sofa-bed in the living room, perfect for two but ..."
description: "One bedroom + sofa-bed in quiet and l neighbourhood right next r..."
```

Output after \$addFields stage (Sample of 20 documents)

Output after \$project stage (Sample of 20 documents)

Output after \$sort stage (Sample of 20 documents)

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

```
1 1
```

```
name: "Sublime loft with private roof top @ Old Montreal"
servicios: 76
```

Ejemplos Agregaciones

2. Retos

2.1. Reto 1

sample_airbnb.listingsAndReviews

Documents Aggregations Schema Explain Plan Indexes

{house_rules: /No Parties/i}

```
{
  "_id": "103101"
  listing_url: "https://www.airbnb.com/rooms/103101"
  name: "Cozy Art Top Floor Apt in PRIME Williamsburg!"
  summary: "My Apt it's right in the middle of the best and hot spots in the heart..."
  space: "Hi there! This is a cozy and impeccable one bedroom apartment in the h..."
  description: "My Apt it's right in the middle of the best and hot spots in the heart..."
  neighborhood_overview: "Bedford Avenue is the neighborhood's main thoroughfare, with its colle..."
  notes: "CHECK OUT: It is always at 11:00 am because my cleaning lady comes at ..."
  transit: "Yes, there is plenty of public transportation around. 5 metro lines: ..."
  access: "To the apt less my personal things. No closet available."
  interaction: "As much as they need my help and guidance."
  house_rules: "-SMOKE is NOT allowed inside the Apt. -NO parties are allowed. -NO Kid..."
  property_type: "Apartment"
  room_type: "Entire home/apt"
  bed_type: "Real Bed"
  minimum_nights: "2"
  maximum_nights: "300"
  cancellation_policy: "strict_14_with_grace_period"
  last_scraped: 2019-03-07T05:00:00.000+00:00
  calendar_last_scraped: 2019-03-07T05:00:00.000+00:00
  first_review: 2013-09-21T04:00:00.000+00:00
  last_review: 2019-02-18T05:00:00.000+00:00
  accommodates: 2
  bedrooms: 1
  beds: 2
}
```

```
{
  "_id": "10392282"
  listing_url: "https://www.airbnb.com/rooms/10392282"
  name: "Banyan Bungalow"
  summary: "The place to be on the north shore is where you can be steps from the ..."
  space: "Big, open space with lots of natural light. The cottage is clean and ..."
  description: "The place to be on the north shore is where you can be steps from the ..."
  neighborhood_overview: "This desirable neighborhood is comprised of other vacation rentals, lo..."
  notes: ""
  transit: "While you might think it nice to arrive and relax there will be many s..."
  access: "Private driveway to access the property, parking on site."
  interaction: "While we live on the property and will try to greet you at your arriva..."
  house_rules: "No smoking, no pets, no parties. You are welcome to have guests, but ..."
}
```

sample_airbnb.listingsAndReviews

Documents Aggregations Schema Explain Plan Indexes Vi

{house_rules: /Pets Allowed/i}

```
{
  "_id": "11197217"
  listing_url: "https://www.airbnb.com/rooms/11197217"
  name: "2 Bedroom Ipanema-Copacabana"
  summary: "Our apartment is strategically located between the beaches of Copacaba..."
  space: ""
  description: "Our apartment is strategically located between the beaches of Copacaba..."
  neighborhood_overview: ""
  notes: ""
  transit: ""
  access: ""
  interaction: ""
  house_rules: "We would appreciate if the guest, as leaving the apartment even for a ..."
  property_type: "Apartment"
  room_type: "Entire home/apt"
  bed_type: "Real Bed"
  minimum_nights: "4"
  maximum_nights: "30"
  cancellation_policy: "moderate"
  last_scraped: 2019-02-11T05:00:00.000+00:00
  calendar_last_scraped: 2019-02-11T05:00:00.000+00:00
  first_review: 2016-08-23T04:00:00.000+00:00
  last_review: 2018-02-15T05:00:00.000+00:00
  accommodates: 5
  bedrooms: 2
  beds: 5
}
```

```
{
  "_id": "12259367"
  listing_url: "https://www.airbnb.com/rooms/12259367"
  name: "STUDIO APARTMENT + WIFI!!!"
  summary: "This fully furnished apartment includes marble bathroom with shower, k..."
  space: "- Studio to yourself - Queen Bed - Comfortably sleeps 2 guests - Bull..."
  description: "This fully furnished apartment includes marble bathroom with shower, k..."
  neighborhood_overview: "Situated in a superb location that allows you to enjoy a relaxing luxu..."
  notes: "SELF CHECK IN AVAILABLE Keys can be collected from 2pm - 3am. Keys mus..."
  transit: "Perfect Location in Walking Distance: 5 minutes to Wynyard Station 5 m..."
  access: "A lively ambience restaurant / bar, as well as Authentic Asian Cafe of..."
  interaction: "We are available to assist you with our local area knowledge and to en..."
  house_rules: "- There should be no smoking inside the apartment. Outside in Balcony ..."
  property_type: "Apartment"
}
```

sample_airbnb.listingsAndReviews

Documents	Aggregations	Schema	Explain Plan	Indexes	V
FILTER {house_rules: /No Smoking/i}					
ADD DATA VIEW					
<pre>{ "_id": "1003530" listing_url: "https://www.airbnb.com/rooms/1003530" name: "New York City - Upper West Side Apt" summary: "" space: "Murphy bed, optional second bedroom available. Wifi available, Hulu, N..." description: "Murphy bed, optional second bedroom available. Wifi available, Hulu, N..." neighborhood_overview: "Great neighborhood - many terrific restaurants, bakeries, bagelries. W..." notes: "My cat, Samantha, are in and out during the summer. The apt is layed ..." transit: "Conveniently located near 1, 2, 3, B & C subway lines. Also buses on C..." access: "New York City!" interaction: "" house_rules: "No smoking is permitted in the apartment. All towels that are used sho..." property_type: "Apartment" room_type: "Private room" bed_type: "Real Bed" minimum_nights: "12" maximum_nights: "360" cancellation_policy: "strict_14_with_grace_period" last_scraped: 2019-03-07T05:00:00.000+00:00 calendar_last_scraped: 2019-03-07T05:00:00.000+00:00 first_review: 2013-04-29T04:00:00.000+00:00 last_review: 2018-08-12T04:00:00.000+00:00 accommodates: 2 bedrooms: 1 beds: 1 }</pre>					
SHOW 14 MORE FIELDS					
<pre>{ "_id": "10083468" listing_url: "https://www.airbnb.com/rooms/10083468" name: "Be Happy in Porto" summary: "Be Happy Apartment is an amazing space. Renovated and comfortable apar..." space: "Be Happy Apartment is housed in a typical Porto building, where the ap..." description: "Be Happy Apartment is an amazing space. Renovated and comfortable apar..." neighborhood_overview: ""Be happy in Porto" offers a quality accommodation to spend a few ple..." notes: "" transit: "When you arrive at Airport Francisco S� Carneiro my advice to take the..." access: "My guests have access to all apartment." interaction: "I am always available with for my guests." house_rules: ". No smoking inside the apartment. . Is forbidden receive or lead stra..." property_type: "Loft" room_type: "Entire home/apt" }</pre>					

sample_airbnb.listingsAndReviews

Documents	Aggregations	Schema	Explain Plan	Indexes
FILTER {house_rules: /No Smoking/No Parties/i}				
ADD DATA VIEW				
<pre>{ "_id": "1003530" listing_url: "https://www.airbnb.com/rooms/1003530" name: "New York City - Upper West Side Apt" summary: "" space: "Murphy bed, optional second bedroom available. Wifi available, Hulu, N..." description: "Murphy bed, optional second bedroom available. Wifi available, Hulu, N..." neighborhood_overview: "Great neighborhood - many terrific restaurants, bakeries, bagelries. W..." notes: "My cat, Samantha, are in and out during the summer. The apt is layed ..." transit: "Conveniently located near 1, 2, 3, B & C subway lines. Also buses on C..." access: "New York City!" interaction: "" house_rules: "No smoking is permitted in the apartment. All towels that are used sho..." property_type: "Apartment" room_type: "Private room" bed_type: "Real Bed" minimum_nights: "12" maximum_nights: "360" cancellation_policy: "strict_14_with_grace_period" last_scraped: 2019-03-07T05:00:00.000+00:00 calendar_last_scraped: 2019-03-07T05:00:00.000+00:00 first_review: 2013-04-29T04:00:00.000+00:00 last_review: 2018-08-12T04:00:00.000+00:00 accommodates: 2 bedrooms: 1 beds: 1 }</pre>				
SHOW 14 MORE FIELDS				
<pre>{ "_id": "10083468" listing_url: "https://www.airbnb.com/rooms/10083468" name: "Be Happy in Porto" summary: "Be Happy Apartment is an amazing space. Renovated and comfortable apar..." space: "Be Happy Apartment is housed in a typical Porto building, where the ap..." description: "Be Happy Apartment is an amazing space. Renovated and comfortable apar..." neighborhood_overview: ""Be happy in Porto" offers a quality accommodation to spend a few ple..." notes: "" transit: "When you arrive at Airport Francisco S� Carneiro my advice to take the..." access: "My guests have access to all apartment." interaction: "I am always available with for my guests." house_rules: ". No smoking inside the apartment. . Is forbidden receive or lead stra..." property_type: "Loft" }</pre>				

Retos de expresiones regulares

2.2. Reto 2

sample_airbnb.listingsAndReviews

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER { "number_of_reviews": { "\$gte": 50 }, "review_scores.review_scores_rating": { "\$gte": 80 }, "amenities": { "\$in": ["/Ethernet/"] }, "address.country_code": "BR" }

ADD DATA **VIEW** **TABLE** **JSON**

```
{
  "_id": "1063491"
  listing_url: "https://www.airbnb.com/rooms/1063491"
  name: "Charming Apartment, perfect Location"
  summary: "Charmoso quarto e sala, privativo, finamente decorado, com uma delicio..."
  space: "It is a bedroom and living room, charming, private, finely decorated, ..."
  description: "It is a bedroom and living room, charming, private, finely decorated, ..."
  neighborhood_overview: "There are a lot of bars, restaurants, supermarkets, bakery, banks... I..."
  notes: "(1) Enjoy the apartment (2) Enjoy Rio (3) Come back soon"
  transit: "Buses, taxis, metro and bicycle, that you can rent near to the buildin..."
  access: "The full apartment"
  interaction: "I like to do some programs with my guests. It depends on my time and i..."
  house_rules: "1.0 apartamento situa-se em edificio residencial. Não é permitido faze..."
  property_type: "Apartment"
  room_type: "Entire home/apt"
  bed_type: "Real Bed"
  minimum_nights: "2"
  maximum_nights: "90"
  cancellation_policy: "super_strict_30"
  last_scraped: 2019-02-11T05:00:00.000+00:00
  calendar_last_scraped: 2019-02-11T05:00:00.000+00:00
  first_review: 2014-01-14T05:00:00.000+00:00
  last_review: 2019-01-02T05:00:00.000+00:00
  accommodates: 4
  bedrooms: 1
  beds: 2
  number_of_reviews: 110
  bathrooms: 1.0
  amenities: Array
    price: 351.00
    security_deposit: 000.00
    cleaning_fee: 140.00
    extra_people: 60.00
    guests_included: 2
  images: Object
  host: Object
  address: Object
  availability: Object
}
```

SHOW 2 MORE FIELDS **HIDE 12 FIELDS**

```
{
  "_id": "11740322"
  listing_url: "https://www.airbnb.com/rooms/11740322"
  name: "Cozy doble bedroom *Nearby Christ the Redeemer*"
  summary: "Stay in a quiet place with great location! Free wifi access throughout..."
  space: "The house was built in 1927 and is preserved by the Municipal Secretar..."
  description: "Stay in a quiet place with great location! Free wifi access throughout..."
  neighborhood_overview: "Laranjeiras is a traditional neighborhood of Rio de Janeiro, very wood..."
  notes: "Feel free to smoke in our outdoor area. but never in anv room insid..."
}
```

Reto uso de expresión punto y consulta en arreglos

2.3. Reto 3

sample_airbnb.listingsAndReviews

DOCUMENTS 5.6kTOTAL SIZE 90.0MBAVG. SIZE 16.6KBINDEXES 4TOTAL SIZE 552.0KB

DocumentsAggregationsSchemaExplain PlanIndexesValidation

5555 Documents in the Collection

Preview of Documents in the Collection

Select an operator to construct expressions used in the aggregation pipeline stages. [Learn more](#)

calendar_last_scraped: 2019-02-16T05:00:00.000+00:00first_review: 2016-01-03T05:00:00.000+00:00last_review: 2019-01-20T05:00:00.000+00:00accommodates: 8bedrooms: 3beds: 5

SHOW 14 MORE FIELDS

_id: "10009999"listing_url: "https://www.airbnb.com/rooms/10009999"summary: "Horto flat with small garden"space: "One bedroom + sofa-bed in quiet and buco neighbourhood right next t..."description: "Lovely one bedroom + sofa-bed in the living room, perfect for two but ..."

_id: "1001265"listing_url: "https://www.airbnb.com/rooms/1001265"summary: "Ocean View Waikiki Marina w/prkg"space: "A short distance from Honolulu's billion dollar mall, and the same dis..."description: "Great studio located on Ala Moana across t street from Yacht Harbor ..."

_id: "1001265"listing_url: "https://www.airbnb.com/rooms/1001265"summary: "Ocean View Waikiki Marina w/prkg"space: "A short distance from Honolulu's billion dollar mall, and the same dis..."description: "Great studio located on Ala Moana across t street from Yacht Harbor ..."

\$match

Output after \$match stage (Sample of 20 documents)

1- {2- "amenities": { "\$in": ["Wifi", "Ethernet"] }3- }

_id: "10006546"listing_url: "https://www.airbnb.com/rooms/10006546"summary: "Ribeira Charming Duplex"space: "Fantastic duplex apartment with three bedrooms, located in the histor..."description: "Privileged views of the Douro River and Ribeira square, our apartment ..."

_id: "10009999"listing_url: "https://www.airbnb.com/rooms/10009999"summary: "Horto flat with small garden"space: "One bedroom + sofa-bed in quiet and buco neighbourhood right next t..."description: "Lovely one bedroom + sofa-bed in the living room, perfect for two but ..."

_id: "1001265"listing_url: "https://www.airbnb.com/rooms/1001265"summary: "Ocean View Waikiki Marina w/prkg"space: "A short distance from Honolulu's billion dollar mall, and the same dis..."description: "Great studio located on Ala Moana across t street from Yacht Harbor ..."

\$group

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

1- {2- " _id": null,3- "total": {4- \$sum: 15- }6- }

_id: nulltotal: 5303

Reto Agregación

10

3. Ejercicio

sample_airbnb.listingsAndReviews

Documents Aggregations Schema Explain Plan Indexes Validation

COLLATION Untitled- Modified SAVE

5555 Documents in the Collection Preview of Documents in the Collection

Select an operator to construct expressions used in the aggregation pipeline stages. [Learn more](#)

calendar_last_scraped: 2019-02-16T05:00:00.000+00:00
first_review: 2016-01-03T05:00:00.000+00:00
last_review: 2019-01-20T05:00:00.000+00:00
accommodates: 8
bedrooms: 3
beds: 5
SHOW 14 MORE FIELDS

_id: "10009999"
listing_url: "https://www.airbnb.com/rooms/10009999"
name: "Horto flat with small garden"
summary: "One bedroom + sofa-bed in quiet and buco neighbourhood right next t..."
space: "Lovely one bedroom + sofa-bed in the living room, perfect for two but ..."
description: "One bedroom + sofa-bed in quiet and buco neighbourhood right next t..."

\$match

Output after \$match stage (Sample of 6 documents)

```
1 {  
2   "number of reviews": {"$gte": 50},  
3   "review scores.review scores rating": {"$gte": 80}  
4   "amenities": {"$in": ["/Ethernet/"]},  
5   "address.country_code": "BR"  
6 }
```

_id: "1063491"
listing_url: "https://www.airbnb.com/rooms/1063491"
name: "Charming Apartment, perfect Location"
summary: "Charmoso quarto e sala, privativo, financeiro decorado, com uma delicio..."
space: "It is a bedroom and living room, charming, private, finely decorated, ..."
description: "It is a bedroom and living room, charming, private, finely decorated, ..."

_id: "11748322"
listing_url: "https://www.airbnb.com/rooms/11748322"
name: "Cozy doble bedroom Nearby Christ the Redeemer"
summary: "Stay in a quiet place with great location. Free wifi access throughout..."
space: "The house was built in 1927 and is preserved by the Municipal Secretar..."
description: "Stay in a quiet place with great location. Free wifi access throughout..."

Ejercicio de la sesión