

Retos Sesión 6

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Reto 1: Expresiones regulares.

Usando la base de datos *sample_airbnblistingsAndReviews*, realiza los siguientes filtros:

1. Propiedades que no permitan fiestas.

Respuesta:

The screenshot shows the MongoDB Compass interface for the `sample_airbnb.listingsAndReviews` collection. The `Documents` tab is active, displaying a list of documents. The query bar shows a filter: `{house_rules: /No Parties/i}`. The results show four documents, all of which have `house_rules` containing the text "No parties allowed" or "No parties or events".

Query:

```
{house_rules: /No Parties/i}
```

Results:

- `name: "great Terrace&lift city center"`
`house_rules: "no parties allowed. please leave rubbish on rubbish been at the street..."`
`address: Object`
- `name: "Tamarama Penthouse apartment"`
`house_rules: "Respect our neighbours (no parties or loud music late at night), smoki..."`
`address: Object`
- `name: "Appartment 5 minutes walk from the beach"`
`house_rules: "• No parties or events • No smoking Please leave the property as you f..."`
`address: Object`
- `name: "907A -Clean, Close to Beach"`
`house_rules: "No smoking Not suitable for pets No parties or events Check-in is a..."`
`address: Object`

Session 6 reto1 ejercicio1:

```
FILTER
{
  house_rules: RegExp('No Parties', i)
}

PROJECT
{
  house_rules: 1,
  _id: 0,
  name: 1,
  address: 1
}
```

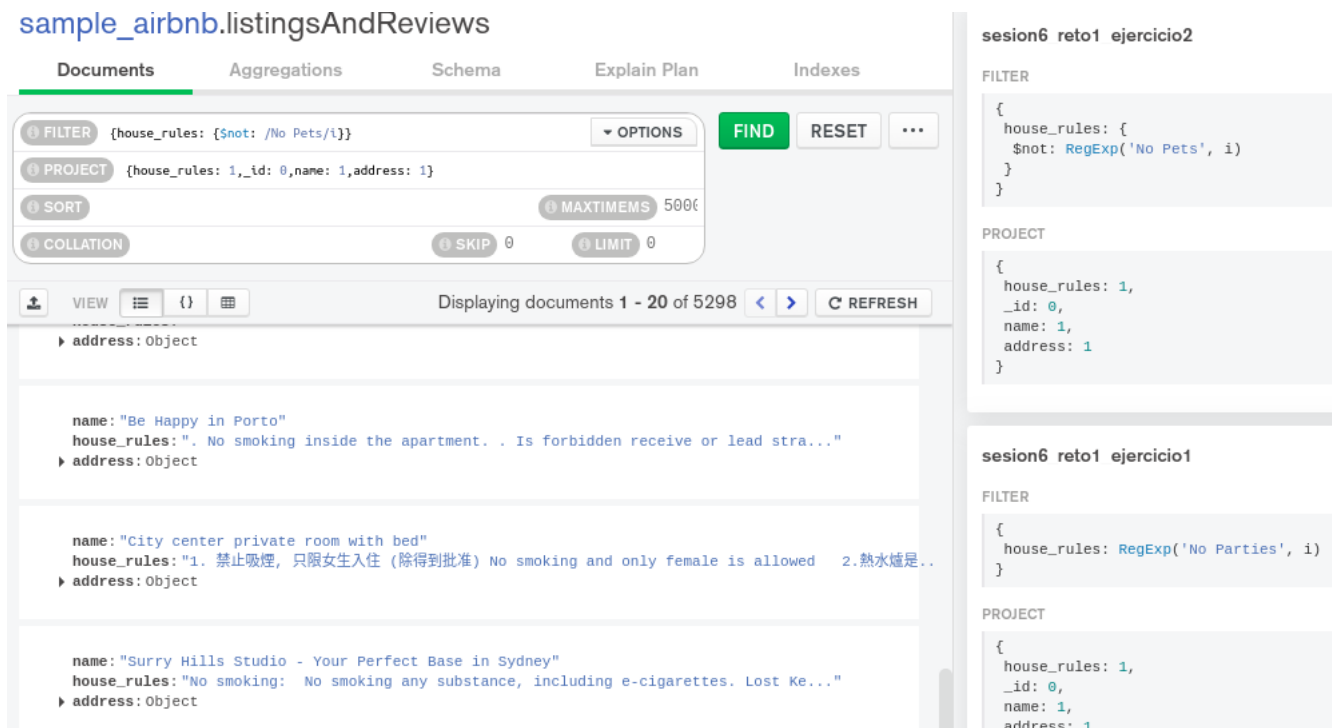
Session 6 reto2:

```
FILTER
{
  number_of_reviews: {
    $gte: 50
  },
  'review_scores.review_scores_rating': {
    $gte: 80
  },
  amenities: {
    $in: [
      'Internet'
    ]
  },
  'address.country_code': 'BR'
}
```

Figura 1: Propiedades que no permitan fiestas.

2. Propiedades que admitan mascotas.

Respuesta:



The screenshot shows the MongoDB Compass interface for the `sample_airbnb.listingsAndReviews` collection. The `Documents` tab is active, displaying a list of documents. The query bar shows a filter: `{house_rules: {$not: /No Pets/i}}` and a project: `{house_rules: 1, _id: 0, name: 1, address: 1}`. The right sidebar shows the query editor with the same filter and project sections.

sample_airbnb.listingsAndReviews

Documents Aggregations Schema Explain Plan Indexes

FILTER `{house_rules: {$not: /No Pets/i}}` **OPTIONS** **FIND** **RESET** **...**

PROJECT `{house_rules: 1, _id: 0, name: 1, address: 1}`

SORT **MAXTIMEMS** 5000

COLLATION **SKIP** 0 **LIMIT** 0

VIEW **REFRESH** Displaying documents 1 - 20 of 5298

address: Object

name: "Be Happy in Porto"
house_rules: ". No smoking inside the apartment. . Is forbidden receive or lead stra..."
address: Object

name: "City center private room with bed"
house_rules: "1. 禁止吸煙, 只限女生入住 (除得到批准) No smoking and only female is allowed 2. 熱水爐是..."
address: Object

name: "Surry Hills Studio - Your Perfect Base in Sydney"
house_rules: "No smoking: No smoking any substance, including e-cigarettes. Lost Ke..."
address: Object

sesion6 reto1 ejercicio2

FILTER

```
{
  house_rules: {
    $not: RegExp('No Pets', i)
  }
}
```

PROJECT

```
{
  house_rules: 1,
  _id: 0,
  name: 1,
  address: 1
}
```

sesion6 reto1 ejercicio1

FILTER

```
{
  house_rules: RegExp('No Parties', i)
}
```

PROJECT

```
{
  house_rules: 1,
  _id: 0,
  name: 1,
  address: 1
}
```

Figura 2: Esta consulta negamos todas las propiedades que no permiten mascotas, así nos devuelve todas las propiedades donde si se permiten mascotas ya que no se menciona dicha restricción que prohíbe a las mascotas en las reglas.

3. Propiedades que no permitan fumadores.

Respuesta:

The screenshot shows the MongoDB Compass interface for the `sample_airbnb.listingsAndReviews` collection. The **Documents** tab is active. The **FILTER** field contains the query `{house_rules: /No Smoking/i}`. The **PROJECT** field contains `{house_rules: 1, _id: 0, name: 1, address: 1}`. The **MAXTIMEMS** is set to 5000. The **SKIP** and **LIMIT** fields are both set to 0. The interface displays 1 - 20 of 639 documents. Three documents are visible, all with `house_rules` containing "NO SMOKING".

Document 1:

```
{
  "name": "Luxury 1-Bdrm in Downtown Brooklyn",
  "house_rules": "RESPECT IT & ENJOY IT! NO SMOKING -- this building, per the on-site ma...",
  "address": {}
}
```

Document 2:

```
{
  "name": "Whole Apt. in East Williamsburg",
  "house_rules": "Only scheduled guests may stay in the apartment. Absolutely no smokin...",
  "address": {}
}
```

Document 3:

```
{
  "name": "Jubilee By The Sea (Ocean Views)",
  "house_rules": "1.NO SMOKING IS ALLOWED anywhere on the property (inside or outside). ...",
  "address": {}
}
```

On the right side, there are two panels showing query snippets for `sesion6 reto2 ejercicio3` and `sesion6 reto1 ejercicio3`.

sesion6 reto2 ejercicio3:

```
FILTER
{
  house_rules: RegExp('No Smoking', i)
}

PROJECT
{
  house_rules: 1,
  _id: 0,
  name: 1,
  address: 1
}
```

sesion6 reto1 ejercicio3:

```
FILTER
{
  $and: [
    {
      house_rules: RegExp('No Parties', i)
    },
    {
      house_rules: RegExp('No Smoking')
    }
  ]
}

PROJECT
```

Figura 3: Propiedades que no permitan fumadores.

4. Propiedades que no permitan fiestas ni fumadores.

Respuesta:

The screenshot shows the MongoDB Compass interface with a query applied to the 'sample_airbnb.listings_and_reviews' collection. The query filters for properties where 'house_rules' contains 'No Parties' or 'No Smoking'. The results show four properties, each with its name, house rules, and address.

Query:

```
{ $and: [{ house_rules: /No Parties/i }, { house_rules: /No Smoking/i } ] }
```

Filters:

- FILTER:** { \$and: [{ house_rules: /No Parties/i }, { house_rules: /No Smoking/i }] }
- PROJECT:** { house_rules: 1, _id: 0, name: 1, address: 1 }

Results:

- name: "907A -Clean, Close to Beach"
house_rules: "No smoking Not suitable for pets No parties or events Check-in is a..."
address: Object
- name: "710A -Bamboo Beauty!! Ocean view!"
house_rules: "No smoking Not suitable for pets No parties or events Check-in is a..."
address: Object
- name: "UNFURNISHED SPACIOUS ONE BEDROOM (-CHEAP STAY-)"
house_rules: "• No parties or events • No smoking"
address: Object
- name: "Shangri'La by the Sea, Kapoho Beach"
house_rules: "No parties or events or additional guests allowed overnight. No smokin..."
address: Object

Session 6 reto1 ejercicio4 FILTER:

```
{ $and: [ { house_rules: RegExp('No Parties', 'i') }, { house_rules: RegExp('No Smoking', 'i') } ] }
```

Session 6 reto1 ejercicio3 FILTER:

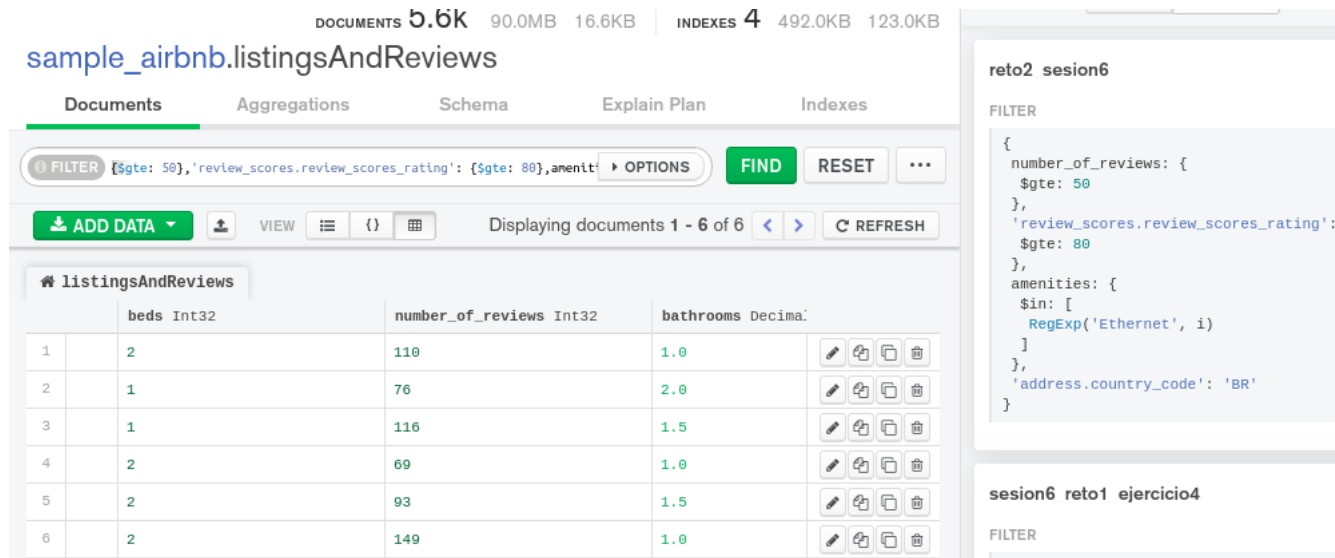
```
{ $and: [ { house_rules: RegExp('No Parties', 'i') }, { house_rules: RegExp('No Smoking', 'i') } ] }
```

Figura 4: Propiedades que no permitan fiestas ni fumadores.

Reto 2: Notación punto y arreglos.

1. Usando la colección *sample_airbnb.listingsAndReviews*, agrega un filtro que permita obtener todas las publicaciones que tengan 50 o más comentarios, que la valoración sea mayor o igual a 80, que cuenten con conexión a Internet vía cable y estén ubicada en Brazil.

Respuesta:



The screenshot shows the MongoDB Compass interface for the `sample_airbnb.listingsAndReviews` collection. The filter bar contains the query: `{ '$gte: 50', 'review_scores.review_scores_rating': { '$gte: 80', amenities: { '$in: ['Ethernet', i]' }, 'address.country_code': 'BR' } }`. The results table displays 6 documents with the following data:

	beds Int32	number_of_reviews Int32	bathrooms Decima:
1	2	110	1.0
2	1	76	2.0
3	1	116	1.5
4	2	69	1.0
5	2	93	1.5
6	2	149	1.0

On the right, the filter query is shown in a sidebar:

```
reto2 sesion6
FILTER
{
  number_of_reviews: {
    $gte: 50
  },
  'review_scores.review_scores_rating': {
    $gte: 80
  },
  amenities: {
    $in: [
      RegExp('Ethernet', i)
    ]
  },
  'address.country_code': 'BR'
}
```

Below it, another sidebar shows:

```
sesion6 reto1 ejercicio4
FILTER
```

Figura 5: Todas las publicaciones que tengan 50 o más comentarios, que la valoración sea mayor o igual a 80, que cuenten con conexión a Internet vía cable y estén ubicada en Brazil.

Reto 3: Introducción a las agregaciones

1. Usando la colección *sample_airbnb.listingsAndReviews*, mediante el uso de agregaciones, encontrar el número de publicaciones que tienen conexión a Internet, sea desde Wifi o desde cable (Ethernet).

Respuesta:

The screenshot shows the MongoDB Compass interface for the *sample_airbnb.listingsAndReviews* collection. The top bar indicates 5.6k documents, 90.0MB total size, 16.6KB avg. size, and 4 indexes. The interface is set to 'Aggregations' mode. The pipeline consists of two stages:

- \$match stage:** The query is

```
{ 'amenities': { '$in': ['Wifi', 'Ethernet'] } }
```

. The output shows a sample of 20 documents, including details like name, summary, space, description, neighborhood_overview, and notes.
- \$group stage:** The query is

```
{ '_id': null, 'total': { '$sum': 1 } }
```

. The output shows a single document with

```
{ '_id': null, 'total': 5303 }
```

.

Figura 6: Usando la colección *sample_airbnb.listingsAndReviews*, mediante el uso de agregaciones, encontrar el número de publicaciones que tienen conexión a Internet, sea desde Wifi o desde cable (Ethernet).