

```

use tienda;
show databases;
show tables;
describe venta;
select nombre from empleado;
select * from empleado;
select * from empleado where apellido_paterno = "Risom";
select * from empleado where id_puesto > 100;
select * from empleado where id_puesto >= 100 and id_puesto <= 200;
select * from empleado where id_puesto = 100 or id_puesto = 200;
select * from empleado where id_puesto in (100, 200);
select nombre from empleado where id_puesto = 4;
select * from puesto where salario > 10000;
select * from articulo where precio > 1000 and iva >= 100;
select * from venta where id_articulo in (135,963) and id_empleado in (835,369);
select * from puesto order by salario asc;
select * from puesto order by salario desc;
select * from puesto order by nombre asc;
select * from empleado limit 5;
select * from puesto where salario limit 5;

```

Proyecto

```

use classicmodels;
show databases;
show tables;
select lastName from employees;
select lastName, firstName, jobTitle from employees;
select * from employees;
select lastName, firstName, jobTitle from employees where jobTitle = "Sales Rep";
select lastName, firstName, jobTitle from employees where officeCode = "1" and jobTitle = "Sales Rep";
select lastName, firstName, jobTitle from employees where officeCode = "1" and officeCode = "2" or officeCode = "3";
select lastName, firstName, jobTitle from employees where jobTitle != "Sales Rep";
select lastName, firstName, jobTitle from employees where officeCode > 5;
select lastName, firstName, jobTitle from employees where officeCode < 4;
select customerName, country, state, creditLimit from customers where country = "USA" and state="CA";
select customerName, country, state, creditLimit from customers where country = "USA" and state="CA" and creditLimit > 10000;
select customerName, country from customers where country = "USA" or country = "FRANCE";
select customerName, country, creditLimit from customers where country = "USA" or country = "FRANCE" and creditLimit >= 10000;

```

```

select officeCode, city, phone, country from offices where country = "USA" or country =
"FRANCE";
select officeCode, city, phone, country from offices where country != "USA" or country !=
"FRANCE";
select orderNumber, customerNumber, 'status', orderDate from orders where shippedDate in
(10165, 10287,10310);

```

1. Dentro de la tabla `employees`, obten el número de empleado, apellido y nombre de todos los empleados cuyo nombre empieza con `a`.
2. Dentro de la tabla `employees`, obten el número de empleado, apellido y nombre de todos los empleados cuyo nombre termina con `on`.
3. Dentro de la tabla `employees`, obten el número de empleado, apellido y nombre de todos los empleados cuyo nombre incluye la cadena `on`.
4. Dentro de la tabla `employees`, obten el número de empleado, apellido y nombre de todos los empleados cuyos nombres tienen tres letras e inician con `T` y finalizan con `m`.
5. Dentro de la tabla `employees`, obten el número de empleado, apellido y nombre de todos los empleados cuyo nombre *no* inicia con `B`.
6. Dentro de la tabla `products`, obten el código de producto y nombre de los productos cuyo código incluye la cadena `_20`.
7. Dentro de la tabla `orderdetails`, obten el total de cada orden.
8. Dentro de la tabla `orders` obten el número de órdenes por año.
9. Obten el apellido y nombre de los empleados cuya oficina está ubicada en `USA`.
10. Obten el número de cliente, número de cheque y cantidad del cliente que ha realizado el pago más alto.
11. Obten el número de cliente, número de cheque y cantidad de aquellos clientes cuyo pago es más alto que el promedio.
12. Obten el nombre de aquellos clientes que no han hecho ninguna orden.
13. Obten el máximo, mínimo y promedio del número de productos en las órdenes de venta.
14. Dentro de la tabla `orders`, obten el número de órdenes que hay por cada estado.

Proyecto 4

1. Obtén los datos de contacto de cada compañía

sample_training.companies

DOCUMENTS 9.5k TOTAL SIZE 34.8MB AVG. SIZE 3.7KB INDEXES 1 TOTAL SIZE 100.0KB AVG. SIZE 100.0KB

Documents Aggregations Explain Plan Indexes

FILTER **OPTIONS** **FIND** **RESET** **...**

PROJECT {name: 1, email_address: 1, phone_number: 1}

MAXTIMES 5000

SKIP 0 **LIMIT** 0

VIEW **{} {} {} {}** Displaying documents 1 - 20 of 9500 **REFRESH**

```

_id: ObjectId("52cdef7c4bab8bd675297d8a")
name: "Wetpaint"
email_address: "info@wetpaint.com"
phone_number: "206.859.6300"

_id: ObjectId("52cdef7c4bab8bd675297d8e")
name: "Facebook"
email_address: ""
phone_number: ""

_id: ObjectId("52cdef7c4bab8bd675297d8f")
name: "Omnidrive"
email_address: "info@omnidrive.com"
phone_number: "660-675-5052"

```

2. Obtén la fuente de cada tweet

sample_training.tweets

DOCUMENTS 24.8k TOTAL SIZE 39.4MB AVG. SIZE 1.6KB INDEXES 1 TOTAL SIZE 232.0KB AVG. SIZE 232.0KB

Documents Aggregations Explain Plan Indexes

FILTER **OPTIONS** **FIND** **RESET** **...**

PROJECT {contributors: 1, text: 1, _id: 0}

MAXTIMES 5000

SKIP 0 **LIMIT** 0

VIEW **{} {} {} {}** Displaying documents 1 - 20 of 24832 **REFRESH**

```

text: "! Warmbluttrese in Krefeld: heute verkaufe ich euch eine neue trense ..."
contributors: null

text: "! Watch Live VIDEO! Seattle vs Oakland Live NFL Streaming Live Video G..."
contributors: null

text: "" Emicida " vc tem um sonho?o que te impede de acreditar que VOCÊ é re..."
contributors: null

text: "" Mudam-se os tempos, mudam-se as vontades, muda-se o ser, muda-se a c..."
contributors: null

text: "" Não me misturo com viciado nem com vagabundo. " #tropadeelite"

```

3. Obtén el nombre de todas las compañías fundadas en octubre.

sample_training.posts Documents

sample_training.posts DOCUMENTS 500 TOTAL SIZE 16.6MB AVG. SIZE 34.1KB INDEXES 1 TOTAL SIZE 20.0KB AVG. SIZE 20.0KB

Documents Aggregations Explain Plan Indexes

FILTER {author: "machine"} PROJECT {author: 1, body:1} SORT MAXTIMEMS 5000 COLLATION SKIP 0 LIMIT 0

VIEW { } Refresh

Displaying documents 1 - 20 of 500

```

_id: ObjectId("50ab0f8bbcf1bfe2536dc3f9")
body: "Amendment I
      <p>Congress shall make no law respecting an establishment ..."
author: "machine"

_id: ObjectId("50ab0f8bbcf1bfe2536dc3fa")
body: "We the People of the United States, in Order to form a more perfect Un..."
author: "machine"

_id: ObjectId("50ab0f8bbcf1bfe2536dc3fb")
body: "Four score and seven years ago our fathers brought forth on this conti..."
author: "machine"

_id: ObjectId("50ab0f8bbcf1bfe2536dc401")
body: "We the People of the United States, in Order to form a more perfect Un..."

```

6. Obtén todos los tweets provenientes de la web.

sample_training.tweets Documents

sample_training.tweets DOCUMENTS 24.8k TOTAL SIZE 39.4MB AVG. SIZE 1.6KB INDEXES 1 TOTAL SIZE 232.0KB AVG. SIZE 232.0KB

Documents Aggregations Explain Plan Indexes

FILTER {source: "web"} PROJECT {text: 1, source:1} SORT MAXTIMEMS 5000 COLLATION SKIP 0 LIMIT 0

VIEW { } Refresh

Displaying documents 1 - 20 of 11141

```

_id: ObjectId("5c8eccb0caa187d17ca623f5")
text: "eu preciso de terminar de fazer a minha tabela, está muito foda ***"
source: "web"

_id: ObjectId("5c8eccb0caa187d17ca623ff")
text: "First week of school is over :P"
source: "web"

_id: ObjectId("5c8eccb0caa187d17ca62400")
text: "fair today!!!! then jersey shore!!!=D"
source: "web"

_id: ObjectId("5c8eccb0caa187d17ca62404")
text: "@teetoolgit lmfao!! No BS! hahaha"

```

7. Obtén todas las compañías fundadas en octubre del 2008.

sample_training.companies

DOCUMENTS 9.5k TOTAL SIZE 34.8MB AVG. SIZE 3.7KB INDEXES 1 TOTAL SIZE 100.0KB AVG. SIZE 100.0KB

Documents Aggregations Explain Plan Indexes

FILTER {founded_year:2008, founded_month:10} **OPTIONS** **FIND** **RESET** ...

PROJECT {name: 1, founded_year:1, founded_month:1}

SORT **MAXTIMEMS** 5000

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

VIEW **REFRESH** Displaying documents 1 - 20 of 63

```
{
  "_id": ObjectId("52cdef7c4bab8bd6752985ca"),
  "name": "tunes8ag",
  "founded_year": 2008,
  "founded_month": 10
}
```

```
{
  "_id": ObjectId("52cdef7d4bab8bd675298d21"),
  "name": "Muecs",
  "founded_year": 2008,
  "founded_month": 10
}
```

```
{
  "_id": ObjectId("52cdef7d4bab8bd675299a43"),
  "name": "Rush Hour",
  "founded_year": 2008,
  "founded_month": 10
}
```

8. Obtén todas las compañías con más de 50 empleados.

sample_training.companies Documents

sample_training.companies

DOCUMENTS 9.5k TOTAL SIZE 34.8MB AVG. SIZE 3.7KB INDEXES 1 TOTAL SIZE 100.0KB AVG. SIZE 100.0KB

Documents Aggregations Explain Plan Indexes

FILTER { number_of_employees: { \$gt: 50 } } **OPTIONS** **FIND** **RESET** ...

PROJECT

SORT {number_of_employees: -1} **MAXTIMEMS** 5000

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

ADD DATA **VIEW** **REFRESH** Displaying documents 1 - 20 of 793

```
{
  "_id": ObjectId("52cdef7c4bab8bd67529856a"),
  "name": "IBM",
  "permalink": "ibm",
  "crunchbase_url": "http://www.crunchbase.com/company/ibm",
  "homepage_url": "http://www.ibm.com",
  "blog_url": "",
  "blog_feed_url": "",
  "twitter_username": "IBM",
  "category_code": "software",
  "number_of_employees": 388000,
  "founded_year": 1896,
  "founded_month": null,
  "founded_day": null,
  "deadpooled_year": null,
  "deadpooled_month": null,
  "deadpooled_day": null,
  "deadpooled_url": "",
  "tag_list": "",
  "alias_list": "",
  "email_address": "ews@us.ibm.com"
}
```

9. Obtén las historias con número de comentarios entre 10 y 30.

sample_training.stories

DOCUMENTS 9.8k TOTAL SIZE 9.6MB AVG. SIZE 1.0KB INDEXES 2 TOTAL SIZE 176.0KB AVG. SIZE 88.0KB

Documents Aggregations Explain Plan Indexes

FILTER { \$and: [{ comments: { \$gte: 10 } }, { comments: { \$lte: 30 } }] } **OPTIONS** **FIND** **RESET** ...

PROJECT

SORT { comments: -1 } **MAXTIMEMS** 5000

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

ADD DATA **VIEW** **REFRESH**

Displaying documents 1 - 20 of 1930

```
{
  "_id": ObjectId("4ba26861238d3ba3ca000110"),
  "href": "http://digg.com/world_news/3_people_associated_with_U_S_consulate_kill...",
  "title": "3 people associated with U.S. consulate killed in Mexico ",
  "comments": 30,
  "thumbnail": Object,
  "container": Object,
  "submit_date": 1268649716,
  "topic": Object,
  "promote_date": 1268710202,
  "id": "19932670",
  "media": "news",
  "digg": 279,
  "description": "Three people connected to the U.S. consulate in Ciudad Juarez, Mexico,...",
  "link": "http://www.cnn.com/2010/WORLD/americas/03/14/mexico.violence/index.htm...",
  "user": Object,
  "status": "popular",
  "shorturl": Array
}
```

10. Obtén la empresa con el menor número de empleados.

sample_training.companies

DOCUMENTS 9.5k TOTAL SIZE 34.8MB AVG. SIZE 3.7KB INDEXES 1 TOTAL SIZE 100.0KB AVG. SIZE 100.0KB

Documents Aggregations Explain Plan Indexes

FILTER { \$and: [{ number_of_employees: { \$ne: null } }, { number_of_employees: { \$ne: 0 } }] } **OPTIONS** **FIND** **RESET** ...

PROJECT { name: 1, number_of_employees: 1 }

SORT { number_of_employees: 1 } **MAXTIMEMS** 5000

COLLATION **SKIP** 0 **LIMIT** 1

VIEW **REFRESH**

Displaying documents 1 - 1 of 1

```
{
  "_id": ObjectId("52cdef7c4bab8bd675297e60"),
  "name": "FeVote",
  "number_of_employees": 1
}
```

11. Obtén la empresa con el mayor número de empleados.

sample_training.companies Documents

sample_training.companies

DOCUMENTS 9.5k TOTAL SIZE 34.8MB AVG. SIZE 3.7KB INDEXES 1 TOTAL SIZE 100.0KB AVG. SIZE 100.0KB

Documents Aggregations Explain Plan Indexes

FILTER { \$and: [{ number_of_employees: { \$ne: null } }, { number_of_employees: { \$ne: 0 } }] } **OPTIONS** **FIND** **RESET** ...

PROJECT { name: 1, number_of_employees: 1 }

SORT { number_of_employees: -1 } **MAXTIMEMS** 5000

COLLATION **SKIP** 0 **LIMIT** 1

VIEW { } { }

Displaying documents 1 - 1 of 1 **REFRESH**

```
{
  "_id": ObjectId("52cdef7c4bab8bd67529856a"),
  "name": "IBM",
  "number_of_employees": 388000
}
```

12. Obtén la historia más comentada.

sample_training.stories

DOCUMENTS 9.8k TOTAL SIZE 9.6MB AVG. SIZE 1.0KB INDEXES 2 TOTAL SIZE 176.0KB AVG. SIZE 88.0KB

Documents Aggregations Explain Plan Indexes

FILTER { \$and: [{ comments: { \$ne: null } }, { comments: { \$ne: 0 } }] } **OPTIONS** **FIND** **RESET** ...

PROJECT { name: 1, comments: 1 }

SORT { comments: -1 } **MAXTIMEMS** 5000

COLLATION **SKIP** 0 **LIMIT** 1

VIEW { } { }

Displaying documents 1 - 1 of 1 **REFRESH**

```
{
  "_id": ObjectId("4ba27ea0238d3ba3ca002251"),
  "comments": 1864
}
```

13. Obtén la historia menos comentada.

sample_training.storiesDocuments

sample_training.stories

DOCUMENTS 9.8kTOTAL SIZE 9.6MBAVG. SIZE 1.0KBINDEXES 2TOTAL SIZE 176.0KBAVG. SIZE 88.0KB

DocumentsAggregationsExplain PlanIndexes

FILTER { \$and: [{ comments: { \$ne: null } }, { comments: { \$ne: 0 } }] }

PROJECT { name: 1, comments: 1 }

SORT { comments: 1 }

COLLATION

MAXTIMEMS5000

SKIP0LIMIT1

VIEW

Displaying documents 1 - 1 of 1

REFRESH

_id: ObjectId("4ba277c0238d3ba3ca001819")

comments: 2