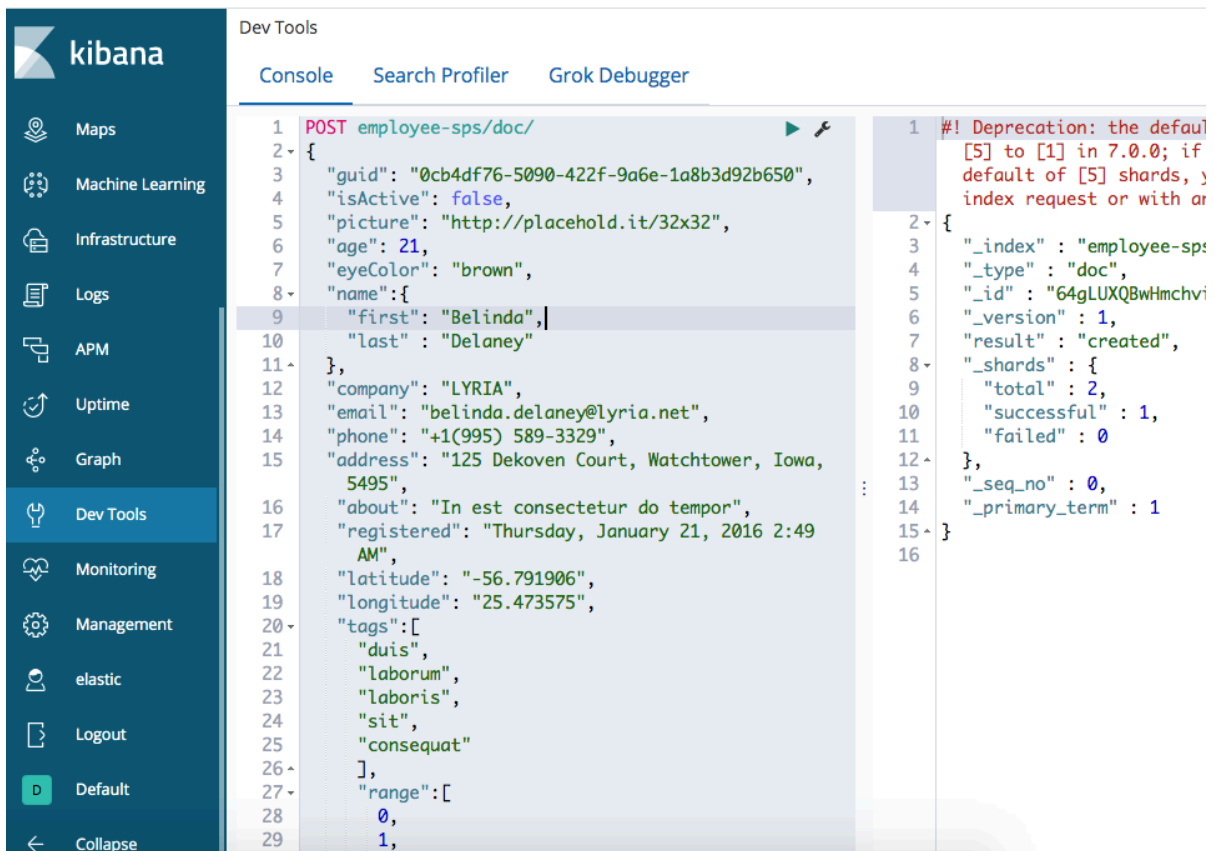



1.- Una vez creada la cuenta en el menú lateral izquierdo nos dirigimos a la opción **Dev Tools**



2.- Procedemos a crear un template con el índice **employee-sps** con el nodo raíz **doc**, con la estructura **JSON** que se muestra a continuación. Y, como se puede observar en la imagen nuestro template se crea correctamente mostrándonos un **Successful** como mensaje.



3.- Ahora procedemos a escribir el comando **POST\_bulk** y dentro pegamos los datos que tenemos en nuestro archivo **"Employee.json"**, como se muestra a continuación. Esto con la finalidad de poder insertar todos los empleados en el índice **employee-sps**.


**kibana**

Dev Tools

Console

Search Profiler

Grok Debugger

Maps

Machine Learning

Infrastructure

Logs

APM

Uptime

Graph

Dev Tools

Monitoring

Management

elastic

Logout

Default

Collapse

```

62 # Indexing all employees in bulk
63 POST _bulk
64 {"index": {"_index": "employee-sps", "_type":
65  "doc"}}
66 {"about": "Amet incididunt voluptate in eu dui sint
ullamco pariatur irure culpa. Amet mollit dolor
excepteur nisi ex sit ullamco. Lorem veniam
voluptate non est do. Est id enim incididunt
dolore aliqua incididunt excepteur ipsum sint
esse commodo sit. In occaecat occaecat fugiat in
mollit ut sint velit reprehenderit tempor aliquip
reprehenderit. Et exercitation sit elit pariatur
veniam officia amet quis occaecat. Voluptate
adipiscing dolor cillum anim enim sunt Lorem
velit ex magna non enim.", "address": "268 Bergen
Avenue, Sattley, Rhode Island, 5425", "age": 27
, "company": "IMAGINART", "email": "logan
.blackburn@imaginart.me", "eyeColor": "green"
, "favoriteFruit": "apple", "friends": [{"id": 0
, "name": "Loraine Foreman"}, {"id": 1, "name"
: "Elizabeth Burnett"}, {"id": 2, "name": "Consuelo
Patel"}], "greeting": "Hello, Logan! You have 8
unread messages.", "guid": "33f177aa-da4a-45cf-9071
-9a48c803f744", "isActive": false, "latitude": "76
.532393", "longitude": "-44.824277", "name": {"first
": "Logan", "last": "Blackburn"}, "payment": "51722.69"
, "phone": "+1 (995) 460-3467", "picture": "http://\
/placeholder.it/32x32", "range": [0,1,2,3,4,5,6,7,8
,9], "registered": "Sunday, June 28, 2015 8:48 AM"
, "tags": ["elit", "nisi", "eu", "aute", "deserunt"]}
66 {"index": {"_index": "employee-sps", "_type":

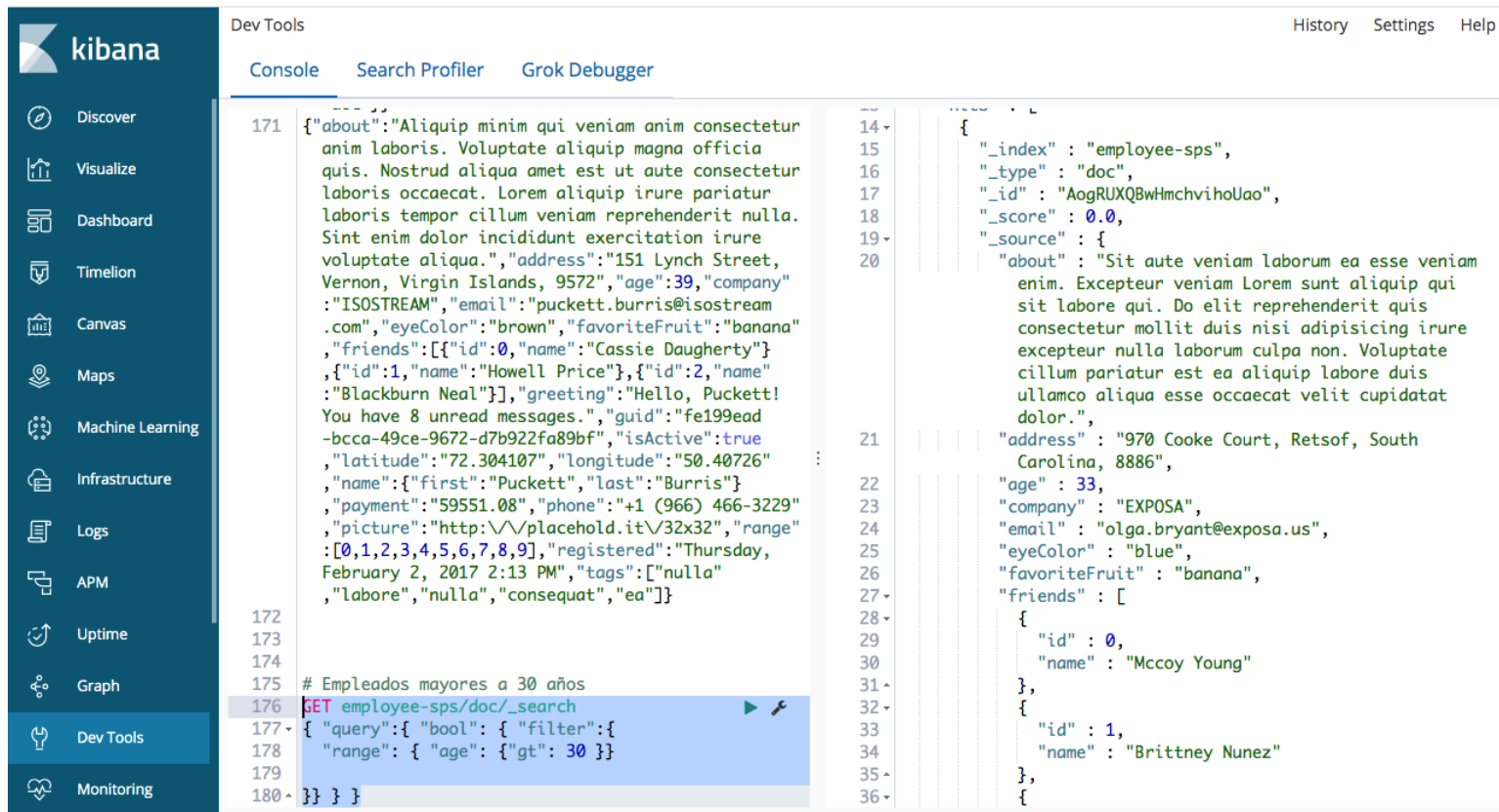
```

```

1- {
2   "took": 407,
3   "errors": false,
4   "items": [
5     {
6       "index": {
7         "_index": "employee-sps",
8         "_type": "doc",
9         "_id": "7YgRUXQBwHmchvihoUWn",
10        "_version": 1,
11        "result": "created",
12        "_shards": {
13          "total": 2,
14          "successful": 2,
15          "failed": 0
16        },
17        "_seq_no": 1,
18        "_primary_term": 1,
19        "status": 201
20      },
21    },
22    {
23      "index": {
24        "_index": "employee-sps",
25        "_type": "doc",
26        "_id": "7YgRUXQBwHmchvihoUWn",
27        "_version": 1,
28        "result": "created",
29        "_shards": {
30          "total": 2,
31          "successful": 2,
32          "failed": 0

```

4.- Ahora procedemos a realizar la consulta donde muestre a los empleados mayores de 30 años haciendo uso de el **API search** como se muestra a continuación.



The screenshot shows the Kibana Dev Tools interface. The left sidebar contains navigation links: Discover, Visualize, Dashboard, Timelion, Canvas, Maps, Machine Learning, Infrastructure, Logs, APM, Uptime, Graph, Dev Tools (selected), and Monitoring. The main area is titled 'Dev Tools' and has tabs for Console, Search Profiler, and Grok Debugger. The Console tab is active, displaying a search query and its results.

**Search Query (Line 176):**

```
GET employee-sps/doc/_search
{
  "query": {
    "bool": {
      "filter": {
        "range": {
          "age": {
            "gt": 30
          }
        }
      }
    }
  }
}
```

**Search Results (Lines 171-180):**

```
{
  "about": "Aliquip minim qui veniam anim consectetur anim laboris. Voluptate aliquip magna officia quis. Nostrud aliqua amet est ut aute consectetur laboris occaecat. Lorem aliquip irure pariatur laboris tempor cillum veniam reprehenderit nulla. Sint enim dolor incididunt exercitation irure voluptate aliqua.",
  "address": "151 Lynch Street, Vernon, Virgin Islands, 9572",
  "age": 39,
  "company": "ISOSTREAM",
  "email": "puckett.burris@isostream.com",
  "eyeColor": "brown",
  "favoriteFruit": "banana",
  "friends": [
    {
      "id": 0,
      "name": "Cassie Daugherty"
    },
    {
      "id": 1,
      "name": "Howell Price"
    },
    {
      "id": 2,
      "name": "Blackburn Neal"
    }
  ],
  "greeting": "Hello, Puckett! You have 8 unread messages.",
  "guid": "fe199ead-bcca-49ce-9672-d7b922fa89bf",
  "isActive": true,
  "latitude": "72.304107",
  "longitude": "50.40726",
  "name": {
    "first": "Puckett",
    "last": "Burris"
  },
  "payment": "59551.08",
  "phone": "+1 (966) 466-3229",
  "picture": "http://placeholder.it/32x32",
  "range": [0, 1, 2, 3, 4, 5, 6, 7, 8, 9],
  "registered": "Thursday, February 2, 2017 2:13 PM",
  "tags": ["nulla", "labore", "nulla", "consequat", "ea"]
}
```

**Search Results (Lines 14-36):**

```
{
  "_index": "employee-sps",
  "_type": "doc",
  "_id": "AogRUXQBwHmchvihoUao",
  "_score": 0.0,
  "_source": {
    "about": "Sit aute veniam laborum ea esse veniam enim. Excepteur veniam Lorem sunt aliquip qui sit labore qui. Do elit reprehenderit quis consectetur mollit duis nisi adipisicing irure excepteur nulla laborum culpa non. Voluptate cillum pariatur est ea aliquip labore duis ullamco aliqua esse occaecat velit cupidatat dolor.",
    "address": "970 Cooke Court, Retsof, South Carolina, 8886",
    "age": 33,
    "company": "EXPOSA",
    "email": "olga.bryant@exposa.us",
    "eyeColor": "blue",
    "favoriteFruit": "banana",
    "friends": [
      {
        "id": 0,
        "name": "Mccoy Young"
      },
      {
        "id": 1,
        "name": "Brittney Nunez"
      }
    ]
  }
}
```

5.- En este paso crearemos una query para mostrar a los empleados menores o iguales a 30 años y que además ganen mas de 50 mil.

The screenshot shows the Kibana Dev Tools interface. On the left is a sidebar with navigation links: Discover, Visualize, Dashboard, Timelion, Canvas, Maps, Machine Learning, Infrastructure, Logs, APM, Uptime, Graph, Dev Tools (selected), and Monitoring. The main area is titled 'Dev Tools' and has tabs for 'Console', 'Search Profiler', and 'Grok Debugger'. The 'Console' tab is active, displaying a REST client request and its JSON response.

**Request:**

```
184 GET employee-sps/doc/_search
185 {
186   "query": {
187     "bool": { "filter": {
188       "bool": { "must": [
189         { "range": { "age": { "lte": 30 } } },
190         { "range": { "payment": { "gt": 50000.00 } } }
191       ] }
192     }
193   }
194 }
```

**Response:**

```
167   "longitude" : "-152.702541",
168   "name" : {
169     "first" : "Wendy",
170     "last" : "Key"
171   },
172   "payment" : "69108.06",
173   "phone" : "+1 (817) 567-3257",
174   "picture" : "http://placeholder.it/32x32",
175   "range" : [
176     0,
177     1,
178     2,
179     3,
180     4,
181     5,
182     6,
183     7,
184     8,
185     9
186   ],
187   "registered" : "Saturday, April 22, 2017 4:36 AM",
188   "tags" : [
189     "ut",
190     "enim",
191     "reprehenderit",
192     "elit",
193     "consectetur"
194   ]
195 }
196 },
197 {
198   "index" : "employee_sps"
```

6.- Ahora procederemos a crear un patrón de índice, para esto nos dirigimos a la opción de **Management** y lo llamaremos **employee-\***, al escribir el nombre del índice nos mostrara los índices que tenemos disponibles para asociarlo, es este caso se asociara a **employee-sps**, seleccionamos **Next-Step** y confirmamos.

**kibana**

- Maps
- Machine Learning
- Infrastructure
- Logs
- APM
- Uptime
- Graph
- Dev Tools
- Monitoring
- Management**
  - elastic
  - Logout
  - Default**
  - Collapse

**Elasticsearch**

- Index Management
- Index Lifecycle Policies
- Rollup Jobs
- Watcher
- 7.0 Upgrade Assistant

**Create index pa...**

No default index pattern. You must select or create one to continue.

**Kibana**

- Index Patterns**
- Saved Objects
- Spaces
- Reporting
- Advanced Settings

**Logstash**

- Pipelines

**Beats**

- Central Management

**Security**

- Users
- Roles

## Create index pattern

Kibana uses index patterns to retrieve data from Elasticsearch indices for things like visualizations.

☐ Include system indices

### Step 1 of 2: Define index pattern

Index pattern

employee-\*

You can use a \* as a wildcard in your index pattern. You can't use spaces or the characters \, /, ?, \*, <, >, |.

[> Next step](#)

✓ **Success!** Your index pattern matches 1 index.

employee-sps

Rows per page: 10

Como resultado nos mostrara estos datos de nuestro índice ya creado.

**kibana**

- Maps
- Machine Learning
- Infrastructure
- Logs
- APM
- Uptime
- Graph
- Dev Tools
- Monitoring
- Management**
  - elastic
  - Logout
  - Default**
  - Collapse

**Elasticsearch**

- Index Management
- Index Lifecycle Policies
- Rollup Jobs
- Watcher
- 7.0 Upgrade Assistant

**Create index pa...**

★ **employee-\***

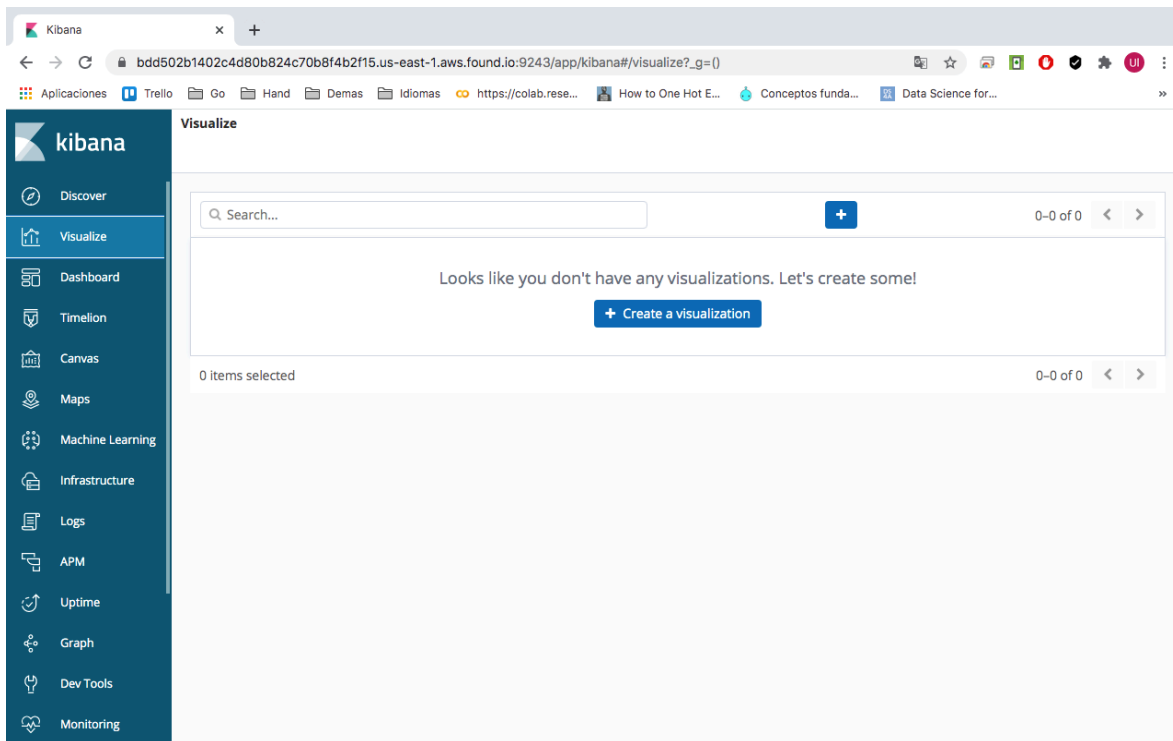
This page lists every field in the **employee-\*** index and the field's associated core type as recorded by Elasticsearch. To change a field type, use the Elasticsearch [Mapping API](#).

Fields (45) | Scripted fields (0) | Source filters (0)

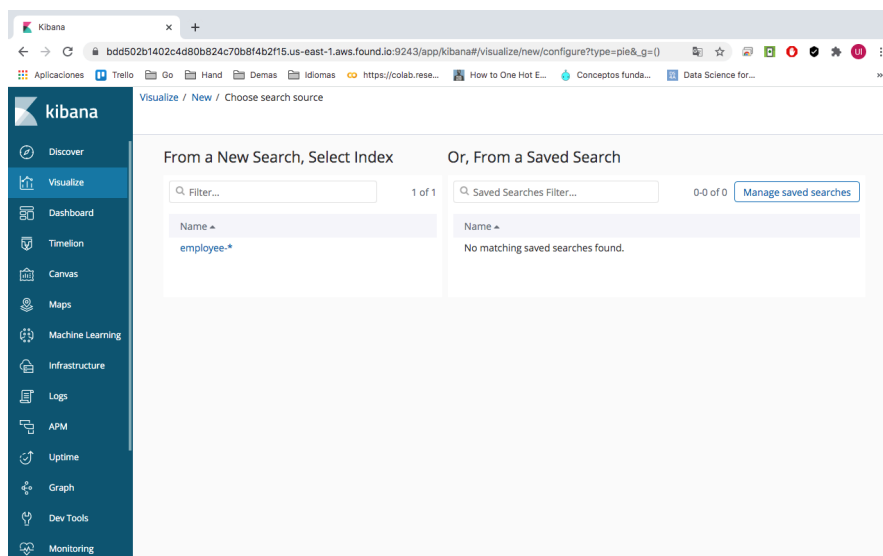
Filter | All field types

Name	Type	Format	Search...	Aggreg...	Excluded
_id	string		•	•	
_index	string		•	•	
_score	number				
_source	_source				
_type	string		•	•	
about	string		•		
about.keyword	string		•	•	
address	string		•		
address.keyword	string		•	•	
age	number		•	•	

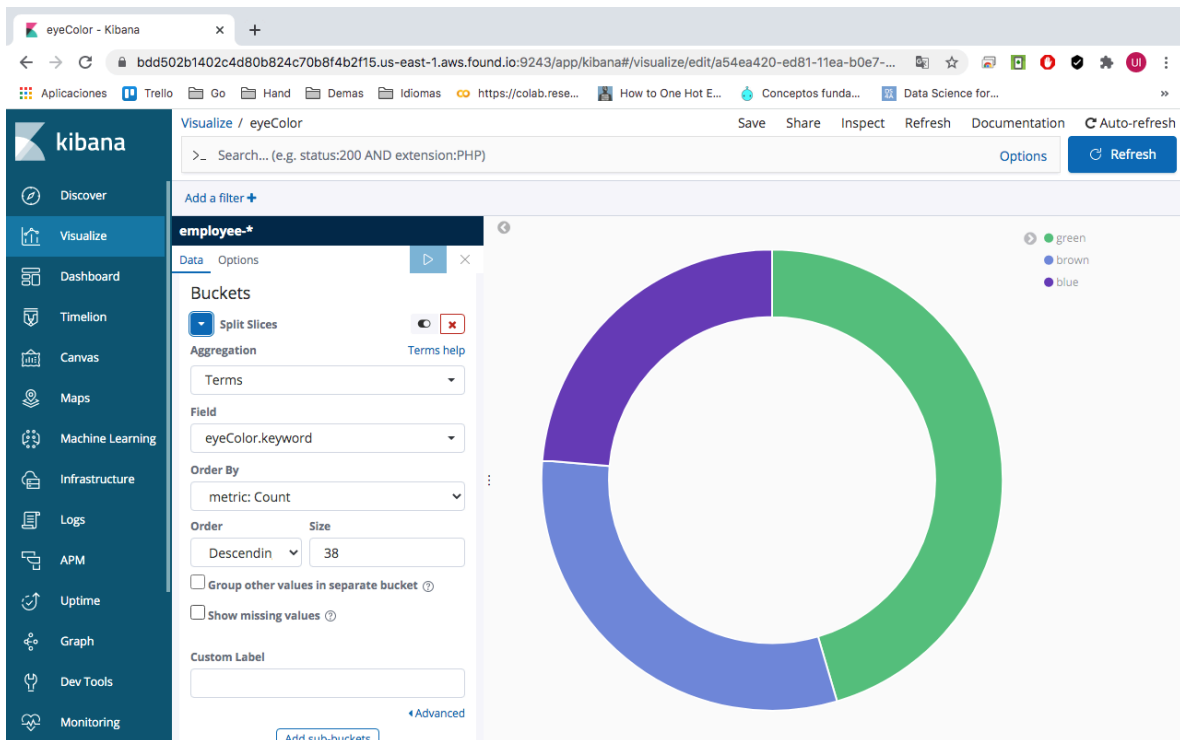
7.- Ahora procederemos a crear las vistas, para esto nos dirigimos a la opción de **Visualize**, seleccionamos la opción de **Create Visualization**, como se muestra en la siguiente imagen.



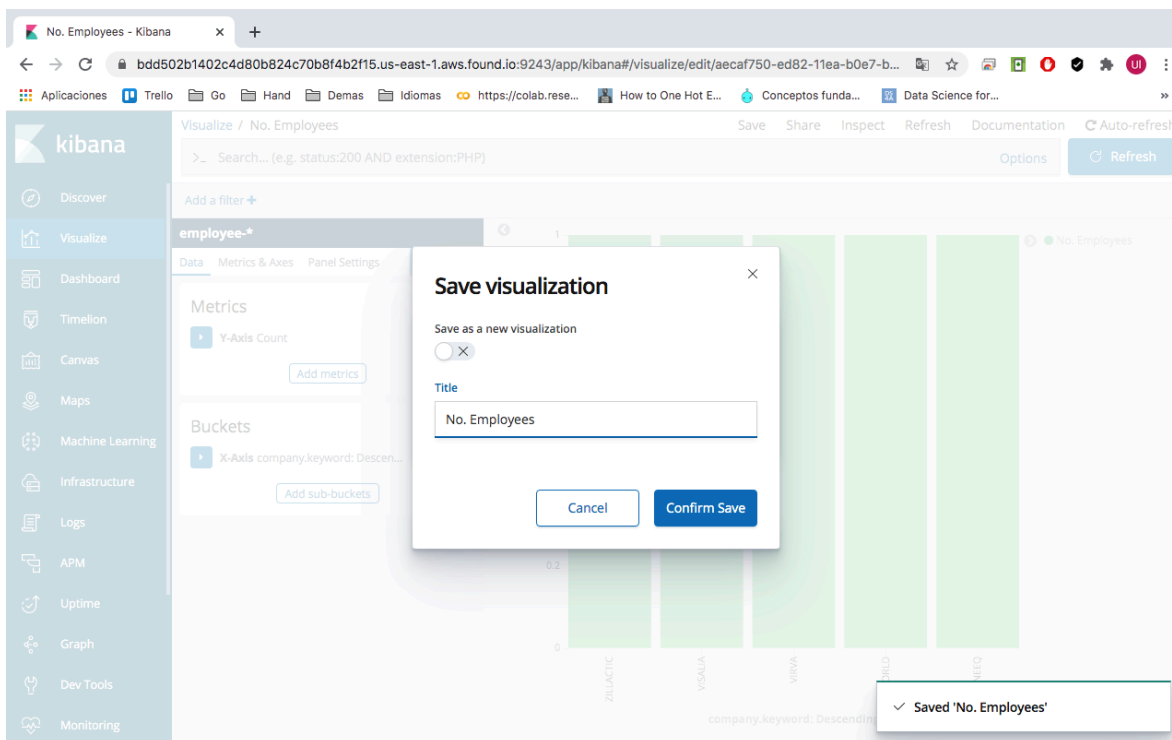
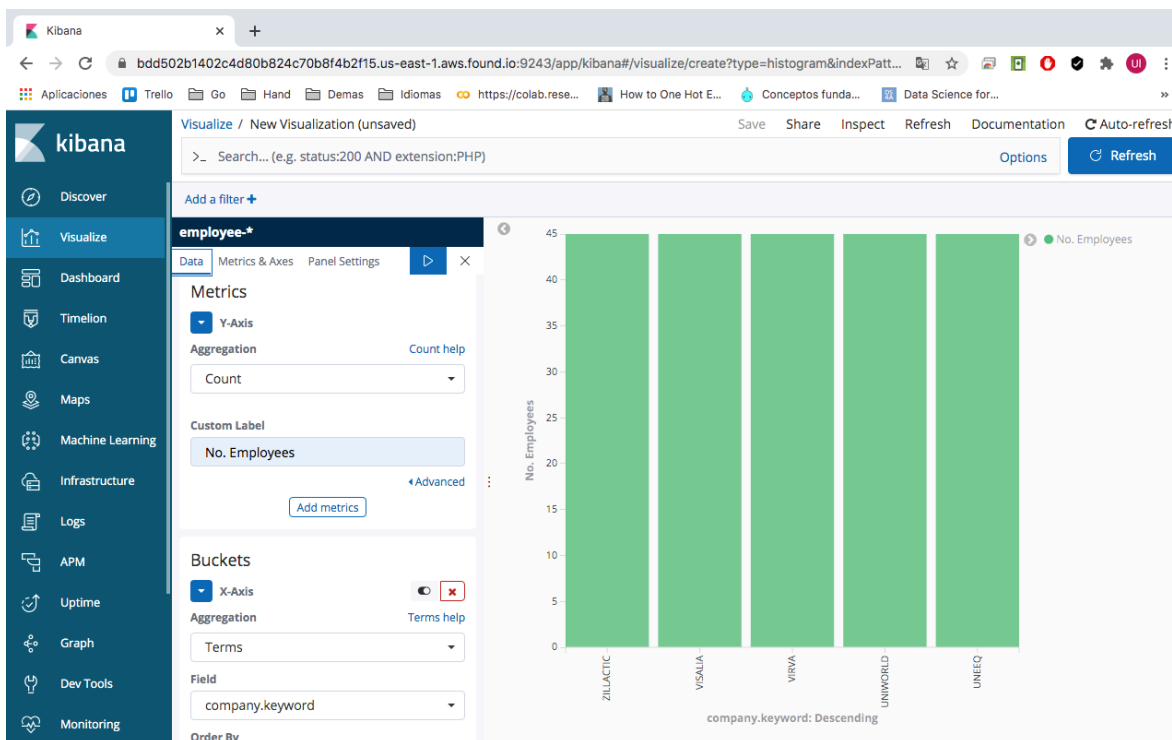
Nos mostrara los índices que tenemos disponibles para poder crear nuestra vista, seleccionamos **employee-sps**



8.- En esta parte seleccionamos el tipo de vista que queremos, en nuestro caso seleccionamos **PIE** y **Bar Graph** respectivamente, para la opción de **PIE** seleccionamos en la opción de **agregation** la opción de **Terms**, en **field eyeColor** y nos mostrara nuestra grafica, posteriormente lo guardamos en la opción superior que dice **Save** aquí le ingresamos un nombre y le damos guardar.

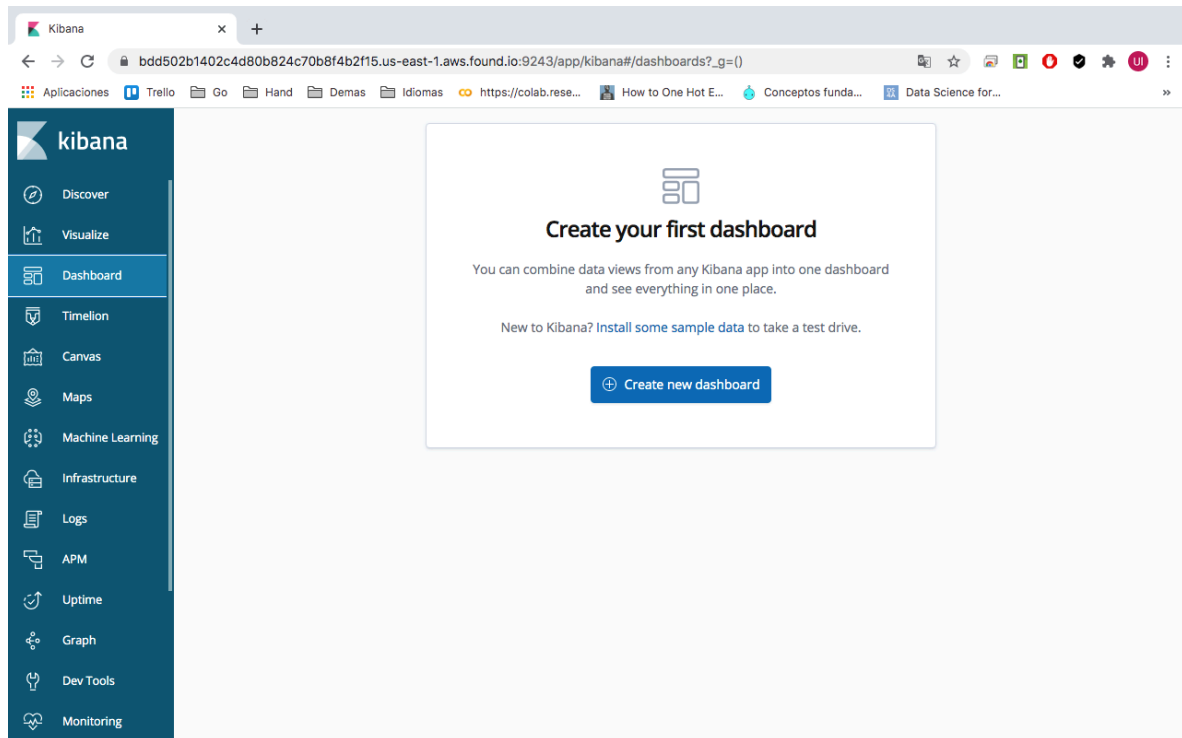


9.- para crear nuestra siguiente vista seguimos los pasos anteriores y seleccionamos la opción de **Bar Graph**, aquí simplemente buscamos las variables que satisfagan nuestra necesidad de vista en las opciones de X-axis y Y-axis, guardamos y posteriormente podremos ver nuestras vistas ya creadas.





10.- procedemos a crear un **Dashboard**, para esto nos vamos a la opción de Dashboard en el menú izquierdo de **Kibana** y seleccionamos **create new dashboard**, posteriormente seleccionamos las vistas que tenemos disponibles para agregar a nuestro dashboard y guardamos.



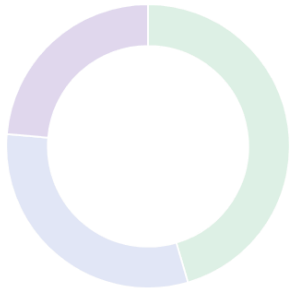
Kibana

Dashboard / Editing New Dashboard (unsaved) Save Cancel

Search... (e.g. status:200 AND extension:PHP)

Add a filter +

eyeColor



green  
brown  
blue

### Add Panels

Visualization Saved Search

Search...

Add new Visualization

Title

eyeColor

No. Employees

Rows per page: 10

Visualization was added to your dashboard


Kibana

Dashboard / Editing New Dashboard (unsaved) Save Cancel Add Options Share Documentation Auto-refresh Last 15 minutes Refresh

Search... (e.g. status:200 AND extension:PHP)

Add a filter +

eyeColor



green  
brown  
blue

### Save dashboard

Title

New Dashboard

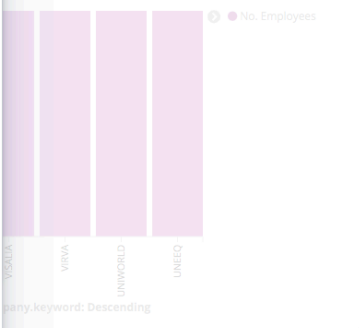
Description

Store time with dashboard

☐ ☒

This changes the time filter to the currently selected time each time this

Cancel Confirm Save



VISUAL VINA UNWORLD UNEQ

No. Employees

any keyword: Descending