



Escuela Politécnica Nacional

Análisis de datos

Nombre: Yajaira Cuatis

Deber de funciones MapReduce en CouchDB

1. Función para mostrar qué películas pertenecen a más de 3 géneros

Map function ?

```
1 function(doc) {  
2   if(doc.género){  
3     if(doc.género.length >3){  
4       emit(doc.título);  
5     }  
6   }  
7 }
```

Reduce (optional) ?

NONE

```
yaja@DESKTOP-A10FFHH MINGW64 ~/Desktop/DebAnalysis  
$ curl admin:couchy@localhost:5984/db-peliculas/_design/vistas-peli/_view/v1  
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current  
           Dload  Upload   Total   Spent    Left   Speed  
100  467    0  467    0    0   2213      0  --:--:-- --:--:-- --:--:--  2213{"total_rows":5,"offset":0,"rows":  
s":[  
{"id":"5920c1761dbbf1372ef78b8511008880","key":"Anabelle Comes Home","value":null},  
{"id":"5920c1761dbbf1372ef78b851100f650","key":"Kimi no Na Wa (Your Name)","value":null},  
{"id":"5920c1761dbbf1372ef78b851100e06d","key":"Men in black","value":null},  
{"id":"5920c1761dbbf1372ef78b851100c9a8","key":"Once Upon a Time in Hollywood","value":null},  
{"id":"5920c1761dbbf1372ef78b8511005de8","key":"The Lion King","value":null}  
]]  
yaja@DESKTOP-A10FFHH MINGW64 ~/Desktop/DebAnalysis
```

2. Función para listas las películas que se hayan creado en 2019

Index name ?

v2

Map function ?

```

1 function (doc) {
2   if(doc.año == 2019){
3     emit(doc.título);
4   }
5 }

```

Reduce (optional) ?

NONE

```

yaja@DESKTOP-A10FFHH MINGW64 ~/Desktop/DebAnalysis
$ curl admin:couchy@localhost:5984/db-peliculas/_design/vistas-peli/_view/v2
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
Dload  Upload   Total   Spent    Left    Speed
100  290    0  290    0    0   1355      0 --:--:-- --:--:-- --:--:-- 1361{"total_rows":3,"offset":0,"rows":
s":[
{"id":"5920c1761dbbf1372ef78b8511008880","key":"Anabelle Comes Home","value":null},
{"id":"5920c1761dbbf1372ef78b851100b511","key":"Joker","value":null},
{"id":"5920c1761dbbf1372ef78b851100c9a8","key":"Once Upon a Time in Hollywood","value":null}
]]
yaja@DESKTOP-A10FFHH MINGW64 ~/Desktop/DebAnalysis
$

```

3. Función para listar las películas junto sus años, que se crearon en años mayores al 2000

Index name [?](#)

v3

Map function [?](#)

```

1 function(doc) {
2   if(doc.año > 2000){
3     emit(doc.título,doc.año);
4   }
5 }

```

Reduce (optional) [?](#)

NONE

```

vaja@DESKTOP-A10FFHH MINGW64 ~/Desktop/DebAnalysis
$ curl admin:couchy@localhost:5984/db-peliculas/_design/vistas-peli/_view/v3
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
   Dload  Upload   Total   Spent    Left    Speed
100  620    0  620    0    0   2924      0  --:--:-- --:--:-- --:--:--  2924{"total_rows":7,"offset":0,"rows":
s":[
{"id":"5920c1761dbbf1372ef78b8511008880","key":"Anabelle Comes Home","value":2019},
{"id":"5920c1761dbbf1372ef78b8511004554","key":"Hachi,A Dog's Tale","value":2009},
{"id":"5920c1761dbbf1372ef78b851100b511","key":"Joker","value":2019},
{"id":"5920c1761dbbf1372ef78b851100f650","key":"Kimi no Na Wa (Your Name)","value":2016},
{"id":"5920c1761dbbf1372ef78b8511007444","key":"Man on Fire","value":2004},
{"id":"5920c1761dbbf1372ef78b85110027ac","key":"Mary and Max","value":2009},
{"id":"5920c1761dbbf1372ef78b851100c9a8","key":"Once Upon a Time in Hollywood","value":2019}
]}
vaja@DESKTOP-A10FFHH MINGW64 ~/Desktop/DebAnalysis

```

4. Función para sumar la duración de películas por cada idioma

Index name [?](#)

v4

Map function [?](#)

```

1 function (doc) {
2   if(doc.idiomas){
3     for(var i in doc.idiomas){
4       emit(doc.idiomas[i],doc.duración);
5     }
6   }
7 }

```

Reduce (optional) [?](#)

_sum

```

yaja@DESKTOP-A10FFHH MINGW64 ~/Desktop/DebAnalysis
$ curl admin:couchy@localhost:5984/db-peliculas/_design/vistas-peli/_view/v4
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100  41      0   41    0      0    192      0  --:--:--  --:--:--  --:--:--   192{"rows":[
{"key":null,"value":1244}
]]

```

5. Función que lista las películas donde el productor es también guionista

Index name [?](#)

Map function [?](#)

```

1 function (doc,) {
2   if(doc.producción,doc.guión){
3     for(var i in doc.producción){
4       if(doc.producción[i]==doc.guión[i]){
5         emit(doc.título);
6       }
7     }
8   }
9 }

```

Reduce (optional) [?](#)

```

yaja@DESKTOP-A10FFHH MINGW64 ~/Desktop/DebAnalysis
$ curl admin:couchy@localhost:5984/db-peliculas/_design/vistas-peli/_view/v5
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
   Dload  Upload  Total    Spent    Left    Speed
100 205    0 205    0    0  971    0 --:--:-- --:--:-- --:--:--  976{"total_rows":2,"offset":0,"rows":
s":[
{"id":"5920c1761dbbf1372ef78b851100b511","key":"Joker","value":null},
{"id":"5920c1761dbbf1372ef78b851100c9a8","key":"Once Upon a Time in Hollywood","value":null}
]]

```

6. Función para listar las películas con su director

Index name ?

v6

Map function ?

```
1 function (doc) {
2   emit(doc.título,doc.dirección);
3 }
```

Reduce (optional) ?

NONE

```
yaja@DESKTOP-A10FFHH MINGW64 ~/Desktop/DebAnalysis
$ curl admin:couchy@localhost:5984/db-peliculas/_design/vistas-peli/_view/v6
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload  Total   Spent    Left     Speed
100 1003    0 1003    0    0  4731    0 --:--:-- --:--:-- --:--:-- 4708{"total_rows":10,"offset":0,"rows":
[{"id":"5920c1761dbbf1372ef78b8511008880","key":"Anabelle Comes Home","value":"Gary Dauberman"},
{"id":"5920c1761dbbf1372ef78b8511004554","key":"Hachi,A Dog's Tale","value":"Lasse Hallstrom"},
{"id":"5920c1761dbbf1372ef78b8511009f8b","key":"Hotaro no Haka (La tumba de las luciérnagas)","value":"Isao
Takahata"},
{"id":"5920c1761dbbf1372ef78b851100b511","key":"Joker","value":"Todd Phillips"},
{"id":"5920c1761dbbf1372ef78b851100f650","key":"Kimi no Na Wa (Your Name)","value":"Makoto Shinkai"},
{"id":"5920c1761dbbf1372ef78b8511007444","key":"Man on Fire","value":"Tony Scott"},
{"id":"5920c1761dbbf1372ef78b85110027ac","key":"Mary and Max","value":"Adam Elliot"},
{"id":"5920c1761dbbf1372ef78b851100e06d","key":"Men in black","value":"Barry Sonnenfeld"},
{"id":"5920c1761dbbf1372ef78b851100c9a8","key":"Once Upon a Time in Hollywood","value":"Quentin Tarantino"},
{"id":"5920c1761dbbf1372ef78b8511005de8","key":"The Lion King","value":"Rob Minkoff"}
]]
```

7. Función para contar las películas realizadas en los años después del 2000

Index name ?

v7

Map function ?

```
1 function (doc) {
2   if(doc.año >2000){
3     emit(doc.año)
4   }
5 }
```

Reduce (optional) ?

_count

```
yaja@DESKTOP-A10FFHH MINGW64 ~/Desktop/DebAnalysis
$ curl admin:couchy@localhost:5984/db-peliculas/_design/vistas-peli/_view/v7
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload  Total   Spent    Left     Speed
100   38    0   38    0    0   179    0 --:--:-- --:--:-- --:--:-- 180{"rows":
[{"key":null,"value":7}
]]
```

8. Función para contar las películas según el idioma

Index name ?

v8

Map function ?

```
1 function (doc) {  
2   if(doc.idiomas){  
3     for(var i in doc.idiomas){  
4       emit(doc.idiomas[i])  
5     }  
6   }  
7 }
```

Reduce (optional) ?

_count

```
yaja@DESKTOP-A10FFHH MINGW64 ~/Desktop/DebAnalysis  
$ curl admin:couchy@localhost:5984/db-peliculas/_design/vistas-peli/_view/v8  
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current  
           % Done      0         0             0      0      0      0      0  
100    39      0    39      0      0    183      0  --:--:--  --:--:--  --:--:--  183{"rows":  
{"key":null,"value":11}  
]}
```

9. Función para contar las películas realizadas en cada país

Index name ?

v9

Map function ?

```
1 function (doc) {  
2   if(doc.país){  
3     emit(doc.país);  
4   }  
5 }
```

Reduce (optional) ?

_count

```

yaja@DESKTOP-A10FFHH MINGW64 ~/Desktop/DebAnalysis
$ curl admin:couchy@localhost:5984/db-peliculas/_design/vistas-peli/_view/v9
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload  Total   Spent    Left     Speed
100  39    0   39    0    0   183      0  --:--:--  --:--:--  --:--:--  183{"rows":[
{"key":null,"value":10}
]]

```

10. Función para listar las películas de Suspenso

Index name [?](#)

v10

Map function [?](#)

```

1 function (doc) {
2   if(doc.género){
3     for(var i in doc.género){
4       if(doc.género[i] == "Suspenso"){
5         emit(doc.título,doc.género);
6       }
7     }
8   }
9 }

```

Reduce (optional) [?](#)

NONE

```

yaja@DESKTOP-A10FFHH MINGW64 ~/Desktop/DebAnalysis
$ curl admin:couchy@localhost:5984/db-peliculas/_design/vistas-peli/_view/v10
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload  Total   Spent    Left     Speed
100  238    0   238    0    0  1122      0  --:--:--  --:--:--  --:--:-- 1127{"total_rows":2,"offset":0,"rows":[
{"id":"5920c1761dbbf1372ef78b851100b511","key":"Joker","value":["Crimen","Drama","Suspenso"]},
{"id":"5920c1761dbbf1372ef78b8511007444","key":"Man on Fire","value":["Acción","Drama","Suspenso"]}
]]

```