

# Parte 4 - Análisis de resultados

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## 1.Representación gráfica de la carga de datos usada en los requerimientos.

El catálogo está conformado por las siguientes estructuras:

Catalog	
"map_landing_points"	Tabla de hash de tablas de hash
"map_countries"	Tabla de hash de tablas de hash
"map_connections"	Tabla de hash de tablas de hash
"grap_landing_points"	Grafo

### 1.1 'map\_landing\_points'

"map_landing_points"	<table><tr><td>3316</td><td><table><tr><td>abidjan</td><td>element = {landing_point_id: 3316, id: abidjan-cte-ivoire, name: Abidjan, Cote d'Ivoire, latitude: 5.323519, longitude: -4.026241 }</td></tr><tr><td>lome</td><td>element = {landing_point_id: 3317, id: lome-togo, name: Lome, Togo , latitude: 6.126007 , longitude: 1.227808 }</td></tr></table></td></tr></table>	3316	<table><tr><td>abidjan</td><td>element = {landing_point_id: 3316, id: abidjan-cte-ivoire, name: Abidjan, Cote d'Ivoire, latitude: 5.323519, longitude: -4.026241 }</td></tr><tr><td>lome</td><td>element = {landing_point_id: 3317, id: lome-togo, name: Lome, Togo , latitude: 6.126007 , longitude: 1.227808 }</td></tr></table>	abidjan	element = {landing_point_id: 3316, id: abidjan-cte-ivoire, name: Abidjan, Cote d'Ivoire, latitude: 5.323519, longitude: -4.026241 }	lome	element = {landing_point_id: 3317, id: lome-togo, name: Lome, Togo , latitude: 6.126007 , longitude: 1.227808 }
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"map_countries"	<table><tr><td>Canada</td><td>element = {CountryName: Canada, CapitalName: Ottawa, CapitalLatitude: 45.4166666666667, CapitalLongitude: -75.7, CountryCode: CA, ContinentName: Central America, population: 36624199, Internet users: 33950632 }</td></tr><tr><td>Colombia</td><td>element = {CountryName: Colombia, CapitalName: Bogota, ... }</td></tr><tr><td>Cuba</td><td>element = {CountryName: Cuba, CapitalName: Havana, ... }</td></tr></table>	Canada	element = {CountryName: Canada, CapitalName: Ottawa, CapitalLatitude: 45.4166666666667, CapitalLongitude: -75.7, CountryCode: CA, ContinentName: Central America, population: 36624199, Internet users: 33950632 }	Colombia	element = {CountryName: Colombia, CapitalName: Bogota, ... }	Cuba	element = {CountryName: Cuba, CapitalName: Havana, ... }
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"map_connections"				
	Origin: 3316	Destination: 4181	<table><tr><td>cable_name: 2Africa</td><td>element = {origin: 3316, destination: 4181, cable_name: 2Africa, cable_id: 2Africa, cable_length: 37,000 km, cable_ris: 2023, owners: Facebook, Vodafone, MTN Group, China Mobile, WIOCC, Orange, Telecom Egypt, Saudi Telecom, capacityTBPS: 180 }</td></tr></table>	cable_name: 2Africa
cable_name: 2Africa	element = {origin: 3316, destination: 4181, cable_name: 2Africa, cable_id: 2Africa, cable_length: 37,000 km, cable_ris: 2023, owners: Facebook, Vodafone, MTN Group, China Mobile, WIOCC, Orange, Telecom Egypt, Saudi Telecom, capacityTBPS: 180 }			

## 2. Análisis de tiempo de ejecución y uso de memoria para cada uno de los requerimientos implementados.

### Máquina 1

Requerimientos	Tiempo de ejecución [ms]	Consumo de datos [kB]
Requerimiento 1	994.763	55.258
Requerimiento 2	65.118	9.141
Requerimiento 3	3777.126	36.398
Requerimiento 4		
Requerimiento 5	53.285	15.103

### Máquina 2

Requerimientos	Tiempo de ejecución [ms]	Consumo de datos [kB]
Requerimiento 1	7681.251	6440.52
Requerimiento 2	127.098	7.227
Requerimiento 3		
Requerimiento 4	3632.896	35.93
Requerimiento 5	78.873	25.657

