

Curso de Data Analytics con Power BI

Extra de la Segunda Clase

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Power BI



Documentos con los que vamos a trabajar

Archivo de aeropuertos

Datasets/World Things

del [repositorio del curso](#)



Un poco sobre nuestros datos



A destacar:

- ★ Tenemos Latitud y Longitud de cada aeropuerto (ubicación)
- ★ Identificadores de un aeropuerto: nombre, IATA, ICAO
- ★ Podemos saber el país, la ciudad, la zona horaria.
- ★ Podemos saber la altitud de cada aeropuerto.

airports		
Σ	Airport Id	
Σ	Altitude	
	City	
	Country	
	DST	
	IATA	
	ICAO	
Σ	Lat	
Σ	Long	
	Name	
	Source	
Σ	Timezone	
	Type	
	Tz database time zone	
	Mean Airports per Country	
Collapse ^		

Data Cleansing



- ★ Chequeamos que los tipos de dato sean los correctos
- ★ Reemplazamos los errores de Timezone por -1000 (o algún otro valor invalido).
- ★ Reemplazamos los \N de IATA e ICAO por un string vacío

Ranking	Name	City	Country	IATA	ICAO	Lat	Long
1	Goroka Airport	Goroka	Papua New Guinea	OGS	ATGA	-6.08169935	145.3919991
2	Madang Airport	Madang	Papua New Guinea	MDG	AUMD	-5.207079887	145.7890016
3	Mount Hagen Wapamupa Airport	Mount Hagen	Papua New Guinea	HGN	AUMH	-5.024799886	144.2960052
4	Metab Airport	Metab	Papua New Guinea	LAE	AUMI	-4.5468002	146.128977
5	Port Moresby Jacksons Internatio	Port Moresby	Papua New Guinea	POM	AUPP	-9.443333266	147.2200012
6	Mewak International Airport	Mewak	Papua New Guinea	MWK	AUMK	-3.583333118	143.6980063
7	Herzogenburg Airport	Herzogenburg	Greenland	HPG	BGHH	61.10409967	-48.4259969
8	Godthaab / Nuuk Airport	Godthaab	Greenland	GOH	BGGR	61.1909071	-61.6761059
9	Kangerlussuaq Airport	Søndrestrøm	Greenland	SRF	BGSP	67.0122219	-50.7140324
10	Thule Air Base	Thule	Greenland	THU	BGTL	74.0113899	-66.70301129
11	Akureyri Airport	Akureyri	Iceland	AEY	BIAL	66.46000266	-18.0797000
12	Egilsstaðir Airport	Egilsstaðir	Iceland	EGS	BIRG	66.03300231	-14.40139961
13	Bornafjörður Airport	Höfn	Iceland	BFN	BIRH	64.295001	-16.2277
14	Ísafold Airport	Ísafold	Iceland	ISF	BIRI	66.063001	-17.460001
15	Ísafjörður Airport	Ísafjörður	Iceland	IFJ	BIRJ	64.0880784	-23.13529968
16	Reiðavík International Airport	Reiðavík	Iceland	REI	BIRP	63.08800461	-22.65840036
17	Þorvaldurðóttir Airport	Þorvaldurðóttir	Iceland	PFJ	BIRB	65.3990001	-23.300
18	Reykjavík Airport	Reykjavík	Iceland	RVK	BIRK	64.1299728	-21.9469944
19	Siglufjörður Airport	Siglufjörður	Iceland	SIG	BISL	66.133001	-16.9167
20	Vestmannaeyjar Airport	Vestmannaeyjar	Iceland	VEY	BIVM	63.42400115	-20.27850125
21	St. John's Water Airport	St. John's Water	Canada	YWK	CTWK	46.48550061	-84.53599861
22	Winnipeg / St. Andrews Airport	Winnipeg	Canada	YWG	CTWV	50.0840003	-97.03260124
23	Halifax / CFB Shearwater Helipor	Halifax	Canada	YHZ	CTMH	44.629702	-63.498401
24	St. Anthony Airport	St. Anthony	Canada	YAS	CTAT	51.30139911	-56.0359929
25	Tofino / Long Beach Airport	Tofino	Canada	YAL	CTAL	49.079003	-126.77559
26	Papineau Airport	Pelly Bay	Canada	YBB	CTBB	66.534401	-99.509099
27	Bark Crossing Airport	Bark Crossing	Canada	YBC	CTBC	48.13240949	-48.20459912
28	CFB Baguville	Baguville	Canada	YBG	CTBG	48.20400074	-70.09639993
29	Baker Lake Airport	Baker Lake	Canada	YBK	CTBK	64.0883679	-94.0777664
30	Campbell River Airport	Campbell River	Canada	YBL	CTBL	49.0080168	-126.2710037
31	Brandon Municipal Airport	Brandon	Canada	YBR	CTBR	49.361	-99.81899
32	Cambridge Bay Airport	Cambridge Bay	Canada	YCB	CTCB	69.1010089	-106.1380008
33	Halimau Airport	Halimau	Canada	YCD	CTCD	43.0547002	-123.8484664
34	Cartiagan/West Hootenay Regional	Cartiagan	Canada	YCD	CTCD	47.29439914	-117.6500008
35	Miramichi Airport	Chatham	Canada	YCN	CTCN	47.507001	-66.449203
36	Charlo Airport	Charlo	Canada	YCL	CTCL	47.390799	-66.235299
37	Raplaivue Airport	Coppeville	Canada	YCP	CTCD	47.814794	-116.143997
38	Cornwall Airport	Cornwall	Canada	YCT	CTCT	46.13030074	-114.664899

Country

All

Mean APC

32.48

Airports Q

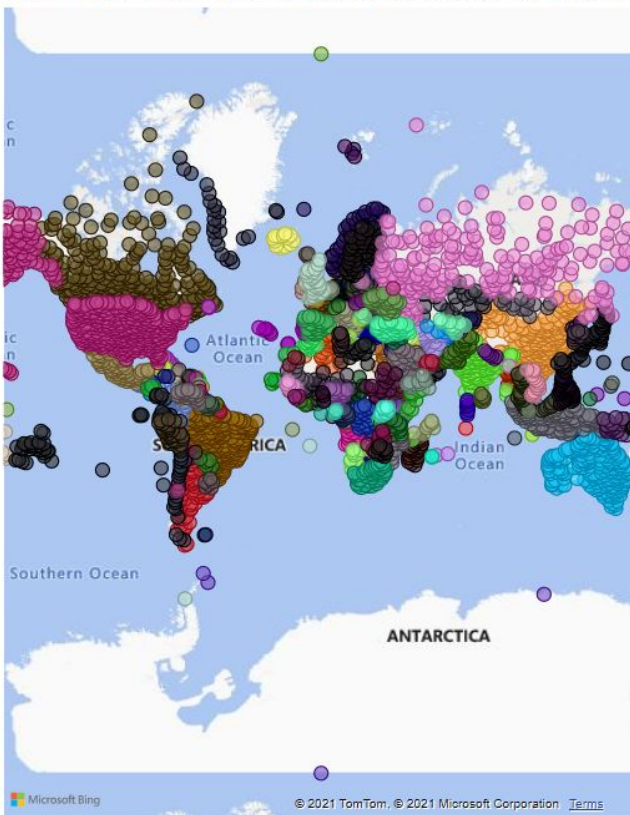
7698

Country

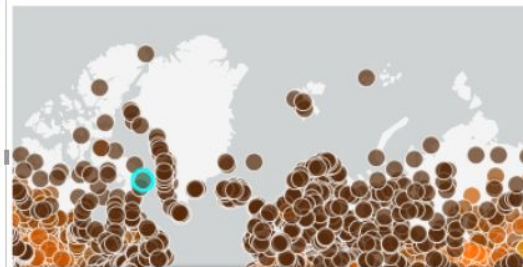


Country, Lat and Long

Country ● Afghanistan ● Albania ● Algeria ● American Samoa ● Angola



Altitude by Lat, Long, ICAO, IATA, City and Country



Lat	67.55
Long	-64.03
ICAO	CVVM
IATA	YVM
City	Broughton Island
Country	Canada
Altitude	21



Navbar



- ★ Vamos a tener un slicer y 2 cards
- ★ El resto de la barra se llena con un rectángulo
- ★ Para una card vamos a necesitar una measure o cálculo, donde calculamos el promedio de aeropuertos por país

Country	Mean APC	Airports Q
All	32.48	7698

airports

- ☐ Σ Airport Id
- ☐ Σ Altitude
- ☐ City
- ☒ Country
- ☐ DST

```
1 Mean Airports per Country = COUNT(airports[Airport Id])/DISTINCTCOUNT(airports[Country])
```

Primer mapa



Visualizations

Location

Country

Legend

Add data fields here

Latitude

Add data fields here

Longitude

Add data fields here

Tooltips

Add data fields here

Drill through

Cross-report

Fields

Search

☐ airports

☒ Σ Airport Id

☐ Σ Altitude

☐ City

☐ Country

☐ DST

☐ IATA

☐ ICAO

☐ Σ Lat

☐ Σ Long

☐ Mean Airports pe...

☐ Name

☐ Source

☐ Σ Timezone

☐ Type

☐ Tz database time ...

☐ Countries-Contin...

☐ cwurData

☐ timesData



Segundo mapa



Visualizations

Location

Add data fields here

Legend

Country ▾ ×

Latitude

Lat ▾ ×

Longitude

Long ▾ ×

Size

Add data fields here

Tooltips

Add data fields here

Drill through

Cross-report

Off ☐

Keep all filters

On ☐

Add drill-through fields here

Fields

☒ airports

☐ Airport Id

☐ Altitude

☐ City

☐ Country

☐ DST

☐ IATA

☐ ICAO

☒ Lat

☒ Long

☐ Mean Airports pe...

☐ Name

☐ Source

☐ Timezone

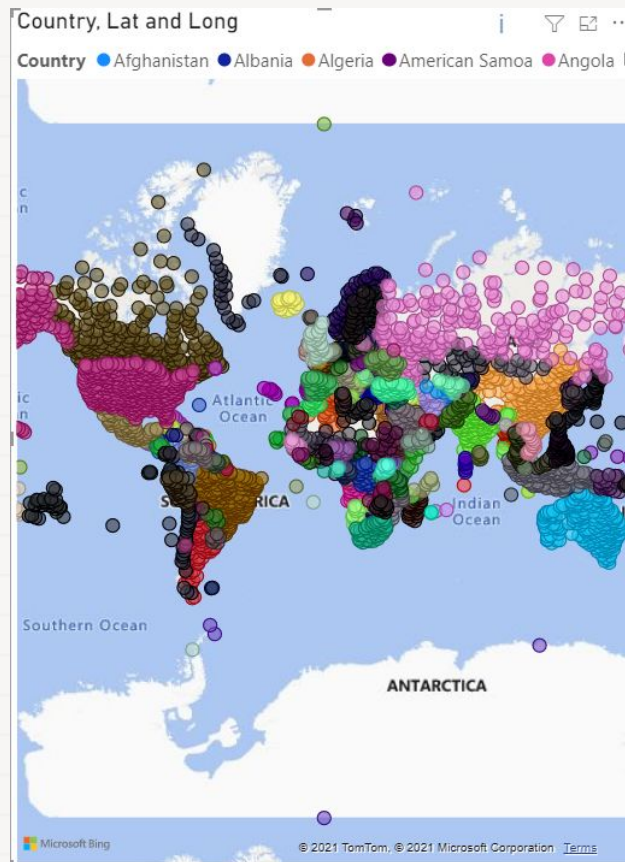
☐ Type

☐ Tz database time...

☒ Countries-Continents

☒ cwrData

☒ timesData



Tercer mapa



Visualizations > Fields >

Search

airports

- ☐ Airport Id
- ☒ Altitude
- ☒ City
- ☒ Country
- ☐ DST
- ☒ IATA
- ☒ ICAO
- ☒ Lat
- ☒ Long
- ☐ Mean Airports pe...
- ☐ Name
- ☐ Source
- ☐ Timezone
- ☐ Type
- ☐ Tz database time ...

Location

Add data fields here

Latitude (Y)

Lat

Longitude (X)

Long

Size

Altitude

Color

Country

Time

Add data fields here

Tooltips

ICAO

IATA

City

Country

Join layer

Add data fields here

Find similar

Add data fields here

Options

GLOBAL

- Data Load
- Power Query Editor
- DirectQuery
- R scripting
- Python scripting

Security

- Privacy
- Regional Settings
- Updates
- Usage Data
- Diagnostics
- Preview features
- Auto recovery
- Report settings

CURRENT FILE

- Data Load
- Regional Settings
- Privacy
- Auto recovery

server).

☐ None | We won't check revocation info. All valid certificates will be allowed through.

Web Preview Warning Level

Moderate

Data Extensions

- ☒ (Recommended) Only allow Microsoft certified and other trusted third-party extensions to load
- ☐ (Not Recommended) Allow any extension to load without validation or warning

[Learn more about data extensions](#)

Custom visuals

- ☒ Show security warning when adding a custom visual to a report

ArcGIS for Power BI

- ☒ Use ArcGIS for Power BI

Approved ADFS Authentication Services

☐ You have not approved any authentication services on this computer.

OK Cancel

