

Project Development Phase Sprint – 2

Date	5 November 2022
Team ID	PNT2022TMID13602
Project Name	Project- Airlines Data Analytics for Aviation Industry

Working with the dataset:

1. Understanding the dataset:

The dataset can be downloaded from the given Links :

1. [AirStats -data on airports around the world](#)
2. [Circum - Airport Performance Reports](#)
3. [Resources Coverage data](#)

- Airports.csv

#	id	ident	type	name	latitude	longitude	elevation	continent	iso_count	iso_region	municipal	schedule	gps_code	iata_code	local_code	home_line	wikipedia	keywords
1	6523	00A	heliport	Total RFH	40.0708	-74.9336	11	NA	US	US-PA	Bensalem	no	00A		00A			
2	323361	00AA	small_airp	Aero B Rai	38.70402	-101.474	3435	NA	US	US-KS	Leoti	no	00AA		00AA			
3	6524	00AK	small_airp	Lowell Fie	59.94773	-151.693	450	NA	US	US-AK	Anchor P	no	00AK		00AK			
4	6525	00AL	small_airp	Epps Airp	34.8648	-86.7703	820	NA	US	US-AL	Harvest	no	00AL		00AL			
5	6526	00AR	closed	Newport I	35.6087	-91.2549	237	NA	US	US-AR	Newport	no					00AR	
6	322127	00AS	small_airp	Fulton Air	34.9428	-97.818	1100	NA	US	US-OK	Alex	no	00AS		00AS			
7	6527	00AZ	small_airp	Cordes Ali	34.3056	-112.165	3810	NA	US	US-AZ	Cordes	no	00AZ		00AZ			
8	6528	00CA	small_airp	Goldstone	35.35474	-116.885	3038	NA	US	US-CA	Barstow	no	00CA		00CA			
9	324424	00CL	small_airp	Williams	39.42719	-121.763	87	NA	US	US-CA	Biggs	no	00CL		00CL			
10	322658	00CN	heliport	Kitchen Cr	32.72737	-116.46	3350	NA	US	US-CA	Pine Valle	no	00CN		00CN			
11	6529	00CO	closed	Cass Field	40.6222	-104.344	4830	NA	US	US-CO	Briggsdale	no					00CO	
12	6531	00FA	small_airp	Grass Patc	28.6455	-82.219	53	NA	US	US-FL	Bushnell	no	00FA		00FA			
13	6532	00FD	heliport	Ringhaver	28.8466	-82.3454	25	NA	US	US-FL	Riverview	no	00FD		00FD			
14	6533	00FL	small_airp	River Oak	27.2309	-80.9692	35	NA	US	US-FL	Okeechob	no	00FL		00FL			
15	6534	00GA	small_airp	Lt World A	33.7675	-84.0683	700	NA	US	US-GA	Lithonia	no	00GA		00GA			
16	6535	00GE	heliport	Caffrey H	33.88925	-84.7379	957	NA	US	US-GA	Hiram	no	00GE		00GE			
17	6536	00HI	heliport	Kaupulehi	19.83272	-155.98	43	NA	US	US-HI	Kailua-Koi	no	00HI		00HI			
18	6537	00ID	small_airp	Delta Shoi	48.1453	-116.214	2064	NA	US	US-ID	Clark Fork	no	00ID		00ID			
19	322581	00IG	small_airp	Golt! Airp	39.72403	-101.396	3359	NA	US	US-KS	McDonald	no	00IG		00IG			
20	6538	00IH	closed	Bailey Ger	41.6445	-87.1228	600	NA	US	US-IN	Chesterto	no					00IH	
21	6539	00IL	small_airp	Hammer A	41.9784	-89.5604	840	NA	US	US-IL	Polo	no	00IL		00IL			
22	6540	00IN	heliport	St Mary M	41.5114	-87.2606	634	NA	US	US-IN	Hobart	no	00IN		00IN			

#	Field Name	Data Type
1	id	Int
2	ident	Text

#	Field Name	Type
1	id	Int
2	code	Text
3	name	Text
4	continent	Text
5	wikipedia_link	Text
6	keywords	Text

- Regions.csv

#	id	code	local_code	name	continent	iso_count	wikipedia_link	keywords
1	302811	AD-02		2 Canillo Pa	EU	AD	https://en.wikipedia.org/wiki/Canillo	
2	302812	AD-03		3 Encamp P	EU	AD	https://en.wikipedia.org/wiki/Encamp	
3	302813	AD-04		4 La Massan	EU	AD	https://en.wikipedia.org/wiki/La_Massana	
4	302814	AD-05		5 Ordino Pa	EU	AD	https://en.wikipedia.org/wiki/Ordino	
5	302815	AD-06		6 Sant Julià	EU	AD	https://en.wikipedia.org/wiki/Sant_Julià_de_Lòria	
6	302816	AD-07		7 Andorra la	EU	AD	https://en.wikipedia.org/wiki/Andorra_la_Vella	
7	302817	AD-08		8 Escaldes-E	EU	AD	https://en.wikipedia.org/wiki/Escaldes-Engordany	
8	302818	AD-U-A	U-A	(unassigni	EU	AD		
9	302819	AE-AJ	AJ	Ajman Em	AS	AE	https://er.Ajman	
10	302820	AE-AZ	AZ	Abu Dhabi	AS	AE	https://er.Abu Dhabi	
11	302821	AE-DU	DU	Dubai Em	AS	AE	https://er.Dubai	
12	302822	AE-FU	FU	Fujairah E	AS	AE	https://er.Al Fujairah	
13	302823	AE-RK	RK	Ras al-Kh	AS	AE	https://er.Ras al Khaymah	
14	302824	AE-SH	SH	Sharjah E	AS	AE	https://er.Ash ShArqah	
15	302825	AE-U-A	U-A	(unassigni	AS	AE		
16	302826	AE-UQ	UQ	Umm al-Q	AS	AE	https://en.wikipedia.org/wiki/Umm_al-Quwain	
17	302827	AF-BAL	BAL	Balkh Prov	AS	AF	https://en.wikipedia.org/wiki/Balkh_Province	
18	302828	AF-BAM	BAM	Bamiyan P	AS	AF	https://en.wikipedia.org/wiki/Bamiyan_Province	
19	302829	AF-BDG	BDG	Badghis P	AS	AF	https://en.wikipedia.org/wiki/Badghis_Province	
20	302830	AF-BDS	BDS	Badakhshi	AS	AF	https://en.wikipedia.org/wiki/Badakhshan_Province	
21	302831	AF-BGL	BGL	Baghlan P	AS	AF	https://en.wikipedia.org/wiki/Baghlan_Province	
22	306897	AF-DAY	DAY	Daykundi	AS	AF	https://en.wikipedia.org/wiki/Daykundi_Province	

#	Field Name	Type
1	id	Int
2	code	Text
3	local_code	Text
4	name	Text
5	continent	Text
6	iso_country	Text
7	wikipedia_link	Text
8	keywords	Text

Loading the dataset: (in the cognos platform)

IBM Cognos Analytics with Watson

Maintenance: Scheduled maintenance coming soon. archive(3).zip was uploaded successfully. Hide Details Dismiss More info

Upload data
Upload or drag and drop spreadsheets, csv files, and other data sources.

Prepare data
Use data modules to clean and connect data from multiple resources.

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Prepare the data and joining of tables:

IBM Cognos Analytics with Watson

Select sources

My content

Type any text to filter items in this folder

- 50_Startups.xlsx
9/15/2022, 3:54 AM
- archive(3).zip
11/11/2022, 12:40 AM
- crop_production.csv
11/10/2022, 3:28 AM
- dashboard
11/10/2022, 3:48 AM
- Healthcare_Data(1).zip
11/10/2022, 3:58 AM
- New dashboard
11/10/2022, 4:04 AM
- New exploration
9/15/2022, 1:22 AM
- Pharma_Monthly_Sales.csv
9/28/2022, 4:26 AM
- priyadharshini
9/27/2022, 11:28 PM
- SampleSuperstore.csv

Filter by
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Type


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- ☐ Packages
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- ☐ Modules

Modified

- ☒ All
- ☐ Today
- ☐ Yesterday
- ☐ Past week
- ☐ Past month


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https://us1.ca.analytics.ibm.com/bi/?perspective=home



Select tables

Select the tables that you want to include in your data module, and create the data module manually.



Discover related tables

Engage the system to recommend related tables for your data module and create the data module for you.

Cancel Next

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IBM Cognos Analytics with Watson * New data module

Select tables

Available sources

Search

- archive(3).zip ☒
- airports ☒
- countries ☒
- regions ☒

Row Id	id	code	local_code	name	contine
1	302811	AD-02	02	Canillo Parish	EU
2	302812	AD-03	03	Encamp Parish	EU
3	302813	AD-04	04	La Massana Parish	EU
4	302814	AD-05	05	Ordino Parish	EU
5	302815	AD-06	06	Sant Julià de Lòria Parish	EU
6	302816	AD-07	07	Andorra la Vella Parish	EU
7	302817	AD-08	08	Escaldes-Engordany Parish	EU
8	302818	AD-U-A	U-A	(unassigned)	EU
9	302819	AE-AJ	AJ	Ajman Emirate	AS
10	302820	AE-AZ	AZ	Abu Dhabi Emirate	AS
11	302821	AE-DU	DU	Dubai Emirate	AS

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Explore the data:

The screenshot shows the 'Add a data source to explore' dialog in IBM Cognos Analytics. The 'My content' tab is active, displaying a table of uploaded files. The table has columns for Name, Type, and Last Accessed. Files include 50_Startups.xlsx, archive(3).zip, crop_production.csv, Healthcare_Data(1).zip, Pharma_Monthly_Sales.csv, and SampleSuperstore.csv. An 'Add' button is at the bottom right.

Name	Type	Last Accessed
50_Startups.xlsx	Uploaded file	9/15/2022, 3:54 AM
archive(3).zip	Uploaded file	11/11/2022, 12:40 AM
crop_production.csv	Uploaded file	11/10/2022, 3:28 AM
Healthcare_Data(1).zip	Uploaded file	11/10/2022, 3:58 AM
Pharma_Monthly_Sales.csv	Uploaded file	9/28/2022, 4:26 AM
SampleSuperstore.csv	Uploaded file	9/14/2022, 3:37 AM

The screenshot shows the 'Explore data relationships' view in IBM Cognos Analytics. The 'archive(3).zip' data source is selected, and the field 'elevation_ft' is entered in the search bar. A message states: 'Relationship diagram is not available for this data. Select a field of interest to see a set of recommended relevant fields for the data. To continue with some limitations, select a visualization or create a new card.' On the right, a 'Select a visualization' panel shows a card for 'elevation_ft' with a value of 68.9M.

Explore data relationships

archive(3).zip

Reset to original

Q elevation_ft

Edit diagram

Relationship diagram is not available for this data.

Select a field of interest to see a set of recommended relevant fields for the data.

To continue with some limitations, select a visualization or create a new card.

Select a visualization

Explore visualizations related to 'elevation_ft'

elevation_ft

68.9M

elevation_ft

Add +

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https://us1.ca.analytics.ibm.com/bi/?perspective=explore&id=explore_94ab607a-a9c8-478c-94d2-0c9677259be3&options[disa

IBM Cognos Analytics with Watson * New exploration 10 Search content

Create + 1/1 Summary Related Compare Analytics Details Fields Properties


Share

elevation_ft

68.9M

elevation_ft

Data relationships



elevation_ft

68.9M

elevation_ft

Details

The total number of results for **elevation_ft** is 54,335.

Type here to search 31°C Mostly cloudy ENG 12:21 PM 11/11/2022