

## WORKING WITH DATASET

### DATA PREPARATION

Date	10-11-2022
Team ID	PNT2022TMID29101
Project Name	Project – AIRLINES DATA ANALYTICS FOR AVIATION INDUSTRY
Maximum Marks	2 Marks

#### Fields (The Global Airport Database dataset):

Name	Type	Example
ICAO Code	(3-4 chars, A - Z)	KATL
IATA Code	(3 chars, A - Z)	ATL
Airport Name	String	THE WILLIAM B HARTSFIELD ATLANTA INTERNATIONAL
City/Town	String	ATLANTA
Country	String	USA
Latitude Degrees	Integer [0,360]	33
Latitude Minutes	Integer [0,60]	38
Latitude Seconds	Integer [0,60]	25
Latitude Direction	Char (N or S)	N
Longitude Degrees	Integer [0,360]	84
Longitude Minutes	Integer [0,60]	25

Name	Type	Example
Longitude Seconds	Integer [0,60]	37
Longitude Direction	Char (E or W)	W
Altitude (Altitude in meters from mean sea level)	Integer [-99999,+99999]	313
Latitude Decimal Degrees	Floating point [-90,90]	33.64
Longitude Decimal Degrees	Floating point [-180,180]	-84.427

### Fields Preview (Main Dataset):

Set 1: 15/27  
columns

FL_DATE	OP_CARRIER	OP_CARRIER_FL_NUM	ORIGIN	DEST	CRS_DEP_TIME	DEP_TIME	DEP_DELAY	TAXI_OUT	WHEELS_OFF	WHEELS_ON	TAXI_IN	CRS_ARR_TIME	ARR_TIME	ARR_DELAY
2009-05-02	9E	2216	MLI	MEM	600	603.0	3.0	14.0	617.0	757.0	8.0	732	805.0	33.0
2009-05-02	9E	5878	ATL	MKE	1555	1554.0	-1.0	15.0	1609.0	1640.0	4.0	1716	1644.0	-32.0
2009-05-06	9E	5822	ATL	TLH	2030	2114.0	44.0	35.0	2149.0	2229.0	3.0	2139	2232.0	53.0
2009-05-06	9E	5849	ATL	ORF	1504	1604.0	60.0	37.0	1641.0	1752.0	3.0	1645	1755.0	70.0
2009-05-07	9E	2939	DTW	ABE	1349	1347.0	-2.0	59.0	1446.0	1548.0	5.0	1527	1553.0	26.0

Set 2: Remaining 12/27  
columns

CANCELLED	CANCELLATION_CODE	DIVERTED	CRS_ELAPSED_TIME	ACTUAL_ELAPSED_TIME	AIR_TIME	DISTANCE	CARRIER_DELAY	WEATHER_DELAY	NAS_DELAY	SECURITY_DELAY	LATE_AIRCRAFT_DELAY	Unnamed__27
0.0	<i>null</i>	0.0	92.0	122.0	100.0	442.0	0.0	0.0	33.0	0.0	0.0	<i>null</i>
0.0	<i>null</i>	0.0	141.0	110.0	91.0	669.0	<i>null</i>	<i>null</i>	<i>null</i>	<i>null</i>	<i>null</i>	<i>null</i>
0.0	<i>null</i>	0.0	69.0	78.0	40.0	223.0	0.0	0.0	9.0	0.0	44.0	<i>null</i>
0.0	<i>null</i>	0.0	101.0	111.0	71.0	516.0	0.0	60.0	10.0	0.0	0.0	<i>null</i>
0.0	<i>null</i>	0.0	98.0	126.0	62.0	424.0	0.0	0.0	26.0	0.0	0.0	<i>null</i>

### Fields Preview (Auxillary Dataset):

ICAO_Code	IATA_Code	Airport_Name	City_Town	Country	Latitude_Degrees	Latitude_Minutes	Latitude_Seconds	Latitude_Direction	Longitude_Degrees
FCOM	MKJ	MAKOUA	MAKOUA	CONGO	0	1	17	S	15
FCOO	FTX	OWANDO	OWANDO	CONGO	0	31	52	S	15
FOGQ	OKN	OKONDJA	OKONDJA	GABON	0	39	55	S	13
FOGR	LBQ	LAMBARENE	LAMBARENE	GABON	0	42	15	S	10

