

Critiquing and Creating Data Visualisations (Callum Bailey)

by Callum Bailey

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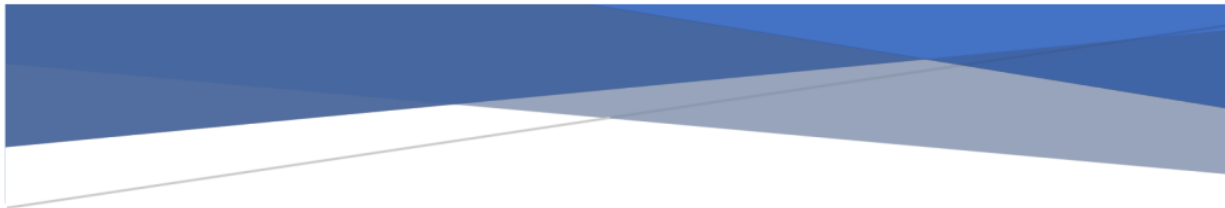
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DATA ANALYSIS AND VISUALISATION

Critiquing and Creating Data Visualisations

Callum Bailey (2307997)

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Assignment 1 Data set

File Home Page **Table tools**

Name AircraftType | Mark as date table | Manage relationships | New measure | Quick measure | New column | New table

	Column1	Column2	Extra Column1	Extra Column2
Aircraft Type	Aircraft Type	0	0	0
Airbus A319	1001	0	0	0
Airbus A320	1002	0	0	0
Airbus A321	1003	0	0	0
A380-800	1004	0	0	0
Boeing 737	1005	0	0	0
British Aerospace Jetstream 41	1006	0	0	0
De Havilland Canada Dash 8	1007	0	0	0
Airbus A320XLR	1008	0	0	0
Airbus A320neo	1009	0	0	0
Airbus A321neo	1010	0	0	0
Airbus A320neo	1011	0	0	0
Airbus A320neo	1012	0	0	0
Boeing 787	1013	0	0	0
Boeing 787	1014	0	0	0
Boeing 777	1015	0	0	0
Boeing 747	1016	0	0	0
Sydney 8-42	1017	0	0	0
Sydney 8-42	1018	0	0	0
WestJet 787	1019	0	0	0
McDonnell Douglas DC-10	1020	0	0	0
McDonnell Douglas MD-11	1021	0	0	0
Sukhoi Superjet 100	1022	0	0	0
Tapscott Tu-154	1023	0	0	0
Tapscott Tu-154	1024	0	0	0
Tapscott Tu-154	1025	0	0	0
Tapscott Tu-214	1026	0	0	0
Viking Air DHC 6-400 Twin Otter	1027	0	0	0
Norwegian Air Shuttle	1028	0	0	0
Airbus A380-800	1029	0	0	0
Boeing 737	1030	0	0	0
Embraer E175	1031	0	0	0
McDonnell Douglas DC-8	1032	0	0	0
McDonnell Douglas MD-80	1033	0	0	0
Airbus A320	1034	0	0	0
McDonnell Douglas DC-8	1035	0	0	0
Fokker F100	1036	0	0	0
Fokker F100	1037	0	0	0
Boeing 737	1038	0	0	0
Boeing 737 Dreamliner	1039	0	0	0

Total AircraftType (102 rows)

Data

- AircraftType
- Active
- Active_post_location
- Active_1
- Active_2
- Date
- Flight_num
- Flight_h_banned
- Flight_d_banned
- Weight_d_banned total for Fl...
- Mkt_h_banned
- Mkt_d_banned
- Month_year
- Passenger_in
- Passenger_out
- Park_Country
- Sum of Flight_h_banned total...
- Sum of Flight_d_banned total...
- New
- International Miles
- CruiseCost
- Total Operating Fleet

Task 2

Assignment 1 data set

File Home Help

Table tools

Name Airline

Mark as data table

Manage relationships

New measure

Quick measure

New column

New table

Parent Airline

Airline

FlightNum

Aegean Airlines	Aegean Airlines	A321
Aegean Airlines	Olympic Air	A322
Aeroflot	Sardufat	A323X
Aeroflot	Nasima Airlines	A324
Aeroflot	Aurora Airlines	A325
Aeroflot	Rosavia	A326
Aerovias Argentinas	Aerovias Argentinas	A327
Aerovias Argentinas	Austral Líneas Aéreas	A328
Air Algerie	Air Algerie	A329
Air Arabia	Air Arabia	A310
Air Arabia	Air Arabia Egypt	A311
Air Arabia	Air Arabia Jordan	A312
Air Arabia	Air Arabia Maroc	A313
Air Astana	Air Astana	A314
Air Berlin	Air Berlin	A315
Air Canada	Air Canada	A316
Air Canada	Air Canada Int.	A317
Air Canada	Air Canada Rouge	A318
Air Canada	Air Canada Regional	A319
Air China	Air Macau (HK) Ltd.	A320
Air China	Air China	A321
Air China	Shenzhen Airlines	A322
Air China	Shandong Airlines (TNA)	A323
Air China	Air China Inner Mongolia	A324
Air China	Kunming Airlines (BOP)	A325
Air China	Dalian Airlines (DPO)	A326
Air China	Air China Cargo	A327
Air Europe	Air Europe	A328
Air France/KLM	Air France	A329
Air France/KLM	Tchouvac	A330
Air France/KLM	KLM	A331
Air France/KLM	Martinair	A332
Air France/KLM	Tchouvac France	A333
Air France/KLM	HOP	A334
Air France/KLM	KLM Cityhopper	A335
Air India	Air India	A336
Air India	Air India Regional	A337
Air India	Air India Express	A338
Air Malta	Air Malta	A339
Air Mauritius	Air Mauritius	A340

Data

Search

AircraftType

Airline

Airline_post_location

Date

Flight_num

Flight_out(Inner)

Flight_out(Inner) total for Fr...

Mail_in(Inner)

Mail_out(Inner)

Month_year

Passengers_In

Passengers_Out

Port_Country

Sum of Flight_in(Inner) total...

Sum of Flight_in(Inner) total...

New

International Status

OrderCost

Total Operating Profit

Table: Airline (258 rows)

8/15 8/15/2016

[illegible]

Assignment 1 Data set

File Home Help Table tools Column tools

Name Total Cost (Current) Data type Fixed decimal n, m Format Currency \$ - % Auto Summation Sum Data category Uncategorized New column

Current Future Historic Total Orders Unit Cost Total Cost (Current) Average Age Flight Miles Aircraft ID

0	0	2	2	0	875	0	0	A009	1034
0	0	6	6	0	875	0	0	A009	1034
0	0	4	4	0	896	0	0	A009	1034
0	0	3	3	0	8216	0	0	A009	1034
0	0	14	14	0	8216	0	0	A009	1034
0	0	2	2	0	8295	0	0	A009	1034
0	0	2	2	0	8143	0	0	A009	1034
0	0	6	6	0	875	0	0	A009	1034
0	0	1	1	0	875	0	0	A020	1034
0	0	1	1	0	875	0	0	A020	1034
0	0	10	10	0	875	0	0	A020	1034
0	0	1	1	0	814	0	0	A020	1034
0	0	6	6	0	875	0	0	A036	1034
0	0	28	28	0	875	0	0	A036	1034
0	0	2	2	0	8243	0	0	A036	1034
0	0	9	9	0	874	0	0	A036	1034
0	0	1	1	0	875	0	0	A036	1034
0	0	2	2	0	8187	0	0	A036	1034
0	0	1	1	0	8188	0	0	A036	1034
0	0	13	13	0	86	0	0	A036	1034
0	0	14	14	0	875	0	0	A039	1034
0	0	14	14	0	822	0	0	A039	1034
0	0	2	2	0	874	0	0	A039	1034
0	0	21	21	0	8216	0	0	A039	1034
0	0	14	14	0	8187	0	0	A039	1034
0	0	8	8	0	8143	0	0	A039	1034
0	0	27	27	0	86	0	0	A039	1034
0	0	46	46	0	843	0	0	A039	1034
0	0	8	8	0	8173	0	0	A039	1034
0	0	80	80	0	843	0	0	A039	1034
0	0	23	23	0	875	0	0	A063	1034
0	0	29	29	0	837	0	0	A063	1034
0	0	19	19	0	8216	0	0	A063	1034
0	0	8	8	0	814	0	0	A063	1034
0	0	79	79	0	820	0	0	A063	1034
0	0	68	68	0	8143	0	0	A063	1034
0	0	6	6	0	86	0	0	A063	1034
0	0	19	19	0	8173	0	0	A063	1034

Table OrderCost (158 rows) Column: Total Cost (Current) (88 distinct values)

Assignment 1 Data set

File Home Help Table tools

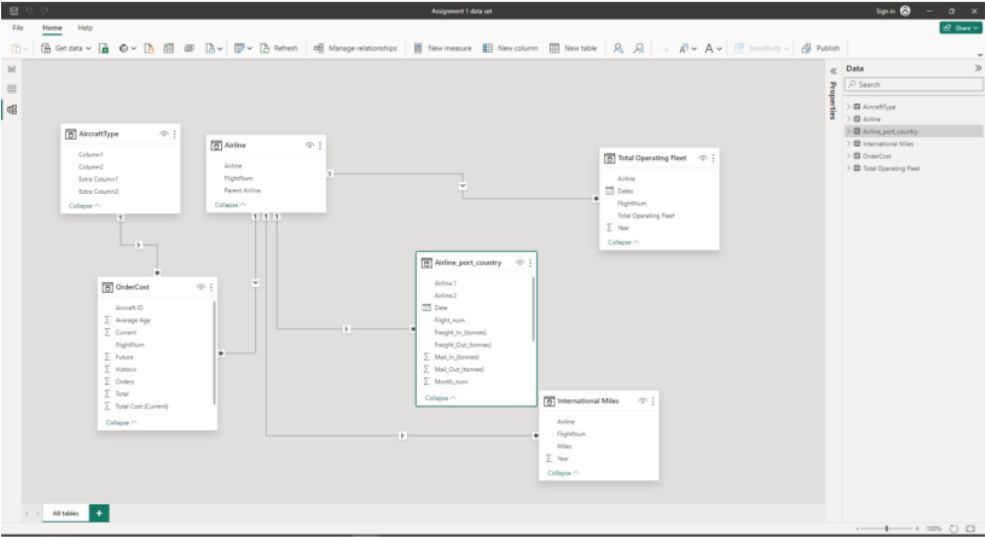
Name Airline_port_Los... Mark as date table Manage relationships New measure Quick measure New column New table

Date Airline Airline2 Port Country Passengers_In Freight_In (Domestic) Mail_In (Domestic) Passengers_Out Freight_Out (Domestic) Mail_Out (Domestic) Year Month sum Flight sum

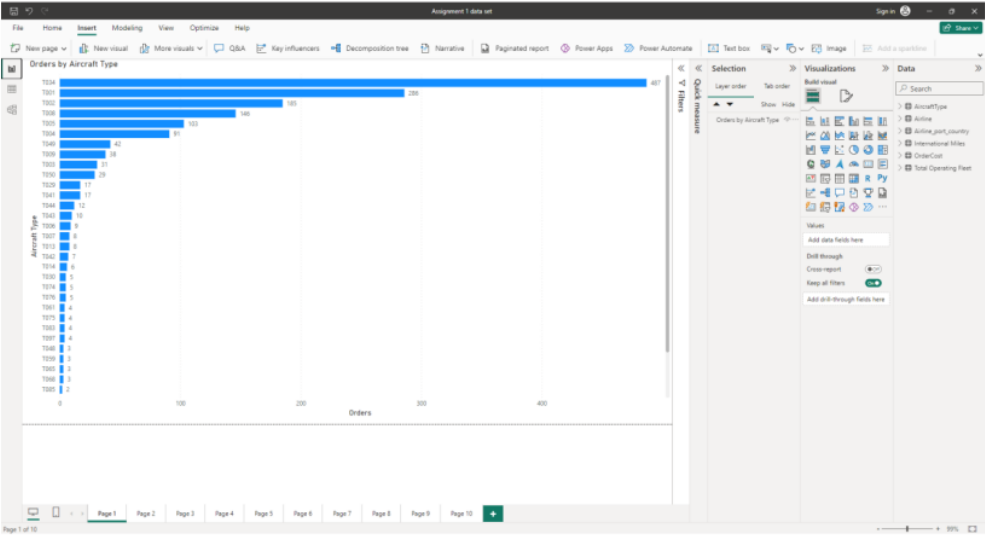
01 October 1998	Vietnam	Actives	Vietnam	0	0	0	0	0	0	1998	10	4267
01 November 1998	Vietnam	Actives	Vietnam	0	0	0	0	0	0	1998	11	4267
01 December 1998	America	Actives	USA	0	0	0	0	0	0	1998	12	4065
01 December 1998	Vietnam	Actives	Vietnam	0	0	0	0	0	0	1998	12	4267
01 January 1999	America	Actives	USA	0	0	0	0	0	0	1999	1	4065
01 February 1999	America	Actives	USA	0	0	0	0	0	0	1999	2	4065
01 March 1999	America	Actives	USA	0	0	0	0	0	0	1999	3	4065
01 April 1999	America	Actives	USA	0	0	0	0	0	0	1999	4	4065
01 May 1999	America	Actives	USA	0	0	0	0	0	0	1999	5	4065
01 June 1999	America	Actives	USA	0	0	0	0	0	0	1999	6	4065
01 July 1999	America	Actives	USA	0	0	0	0	0	0	1999	7	4065
01 August 1999	America	Actives	USA	0	0	0	0	0	0	1999	8	4065
01 September 1999	America	Actives	USA	0	0	0	0	0	0	1999	9	4065
01 October 1999	America	Actives	USA	0	0	0	0	0	0	1999	10	4065
01 November 1999	America	Actives	USA	0	0	0	0	0	0	1999	11	4065
01 December 1999	America	Actives	USA	0	0	0	0	0	0	1999	12	4065
01 July 2000	Atlanta	Italy	Singapore	0	0	0	0	0	0	2000	7	4059
01 August 2000	Atlanta	Italy	Singapore	0	0	0	0	0	0	2000	8	4059
01 August 2000	Atlanta	Italy	Singapore	0	0	0	0	0	0	2000	8	4059
01 September 2000	Atlanta	Italy	Singapore	0	0	0	0	0	0	2000	9	4059
01 October 2000	Atlanta	Italy	Singapore	0	0	0	0	0	0	2000	10	4059
01 October 2000	Atlanta	Italy	Singapore	0	0	0	0	0	0	2000	10	4059
01 July 2001	Aerolineas	Argentina	Argentina	0	0	0	0	0	0	2001	7	4007
01 July 2001	Aerolineas	Argentina	New Zealand	0	0	0	0	0	0	2001	7	4007
01 August 2001	Aerolineas	Argentina	Argentina	0	0	0	0	0	0	2001	8	4007
01 August 2001	Aerolineas	Argentina	New Zealand	0	0	0	0	0	0	2001	8	4007
01 September 2001	Aerolineas	Argentina	Argentina	0	0	0	0	0	0	2001	9	4007
01 September 2001	Aerolineas	Argentina	New Zealand	0	0	0	0	0	0	2001	9	4007
01 October 2001	Aerolineas	Argentina	Argentina	0	0	0	0	0	0	2001	10	4007
01 October 2001	Aerolineas	Argentina	New Zealand	0	0	0	0	0	0	2001	10	4007
01 November 2001	Aerolineas	Argentina	Argentina	0	0	0	0	0	0	2001	11	4007
01 November 2001	Aerolineas	Argentina	New Zealand	0	0	0	0	0	0	2001	11	4007
01 December 2004	Qantas	Airways	Flg	0	0	0	0	0	0	2004	12	4201
01 March 2005	Singapore	Actives	Indonesia	0	0	0	0	0	0	2005	3	4225
01 August 2005	Asiana	Actives	Korea	0	0	0	0	0	0	2005	8	4079
01 September 2005	United	Actives	Flg	0	0	0	0	0	0	2005	9	4262
01 October 2005	Singapore	Actives	Indonesia	0	0	0	0	0	0	2005	10	4225
01 November 2005	Qantas	Airways	Netherlands	0	0	0	0	0	0	2005	11	4201

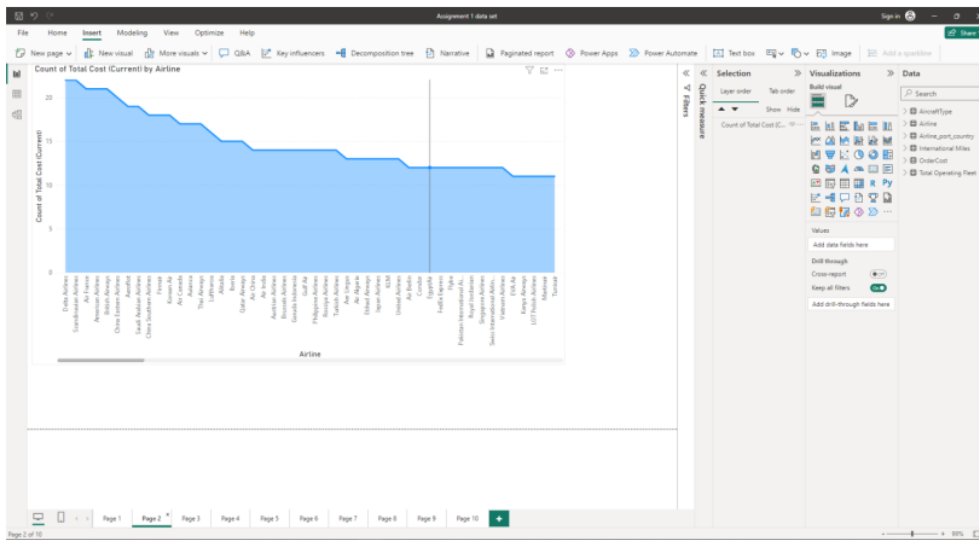
Table Airline_port_country (2418 rows)

Task 3

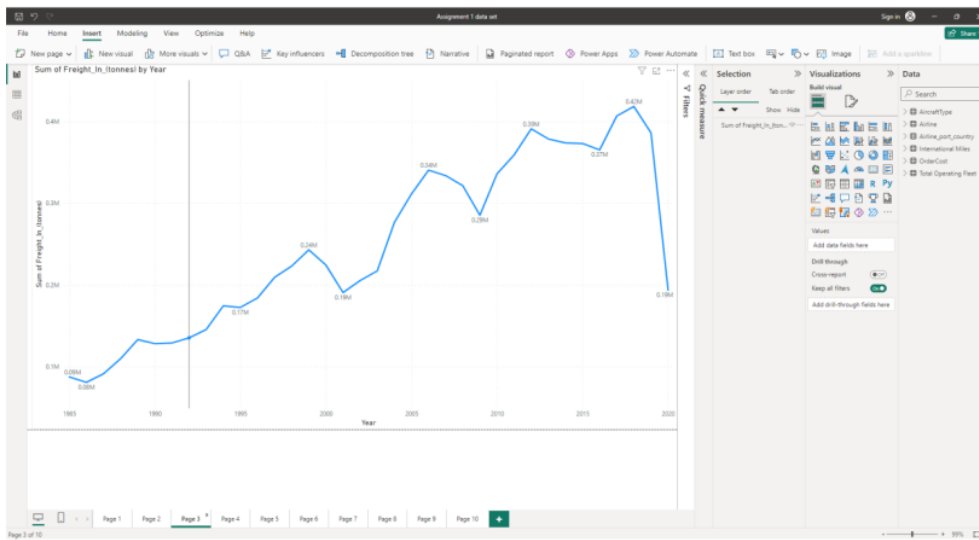


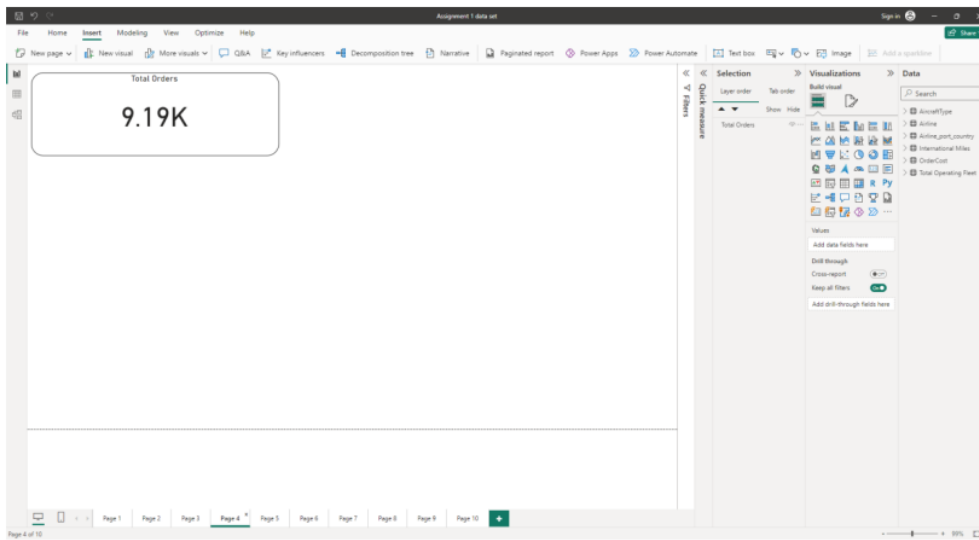
Task 4



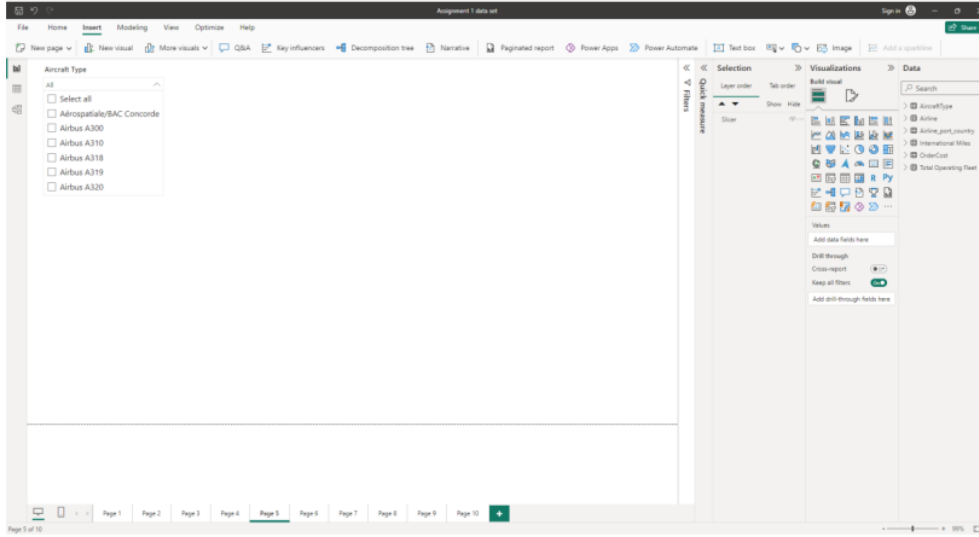


Delta Airlines is incurring the highest cost.

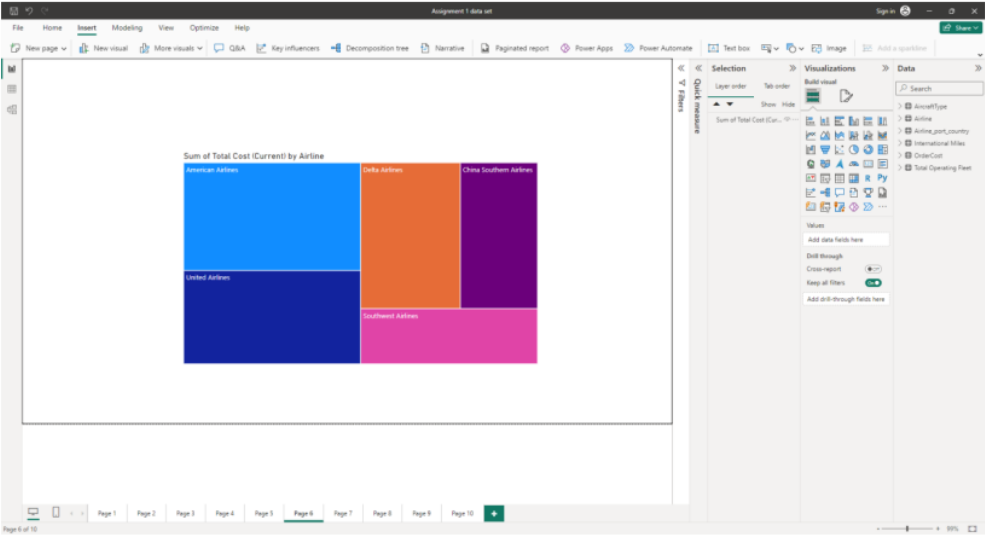




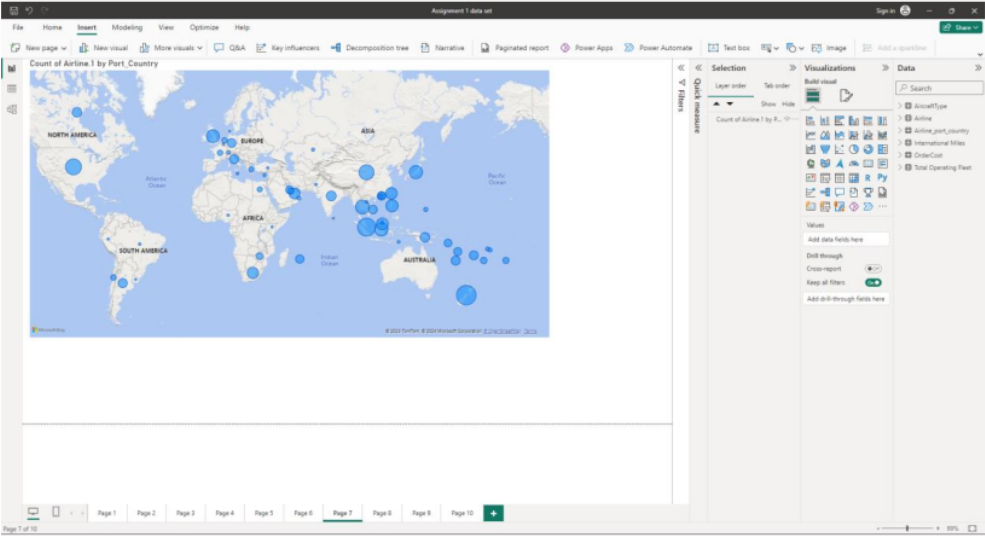
Task 5



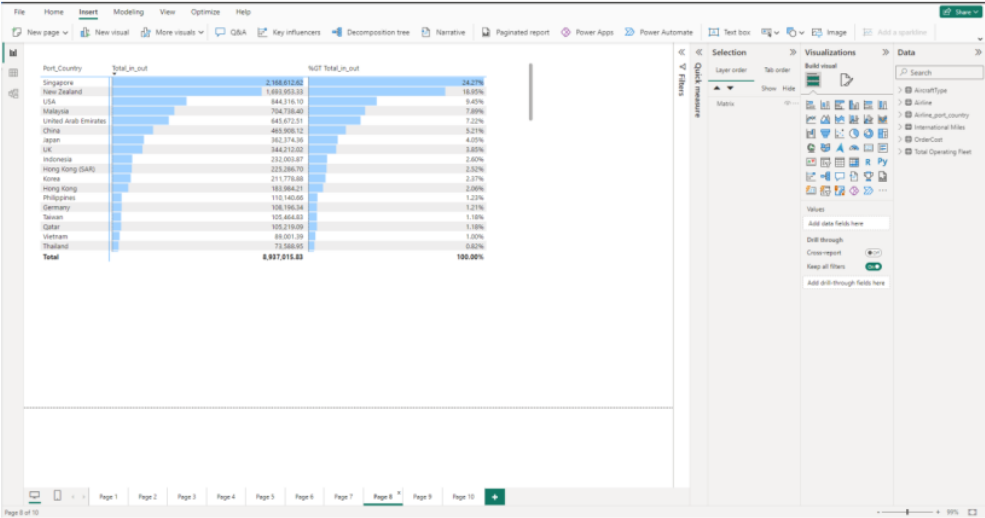
Task 6



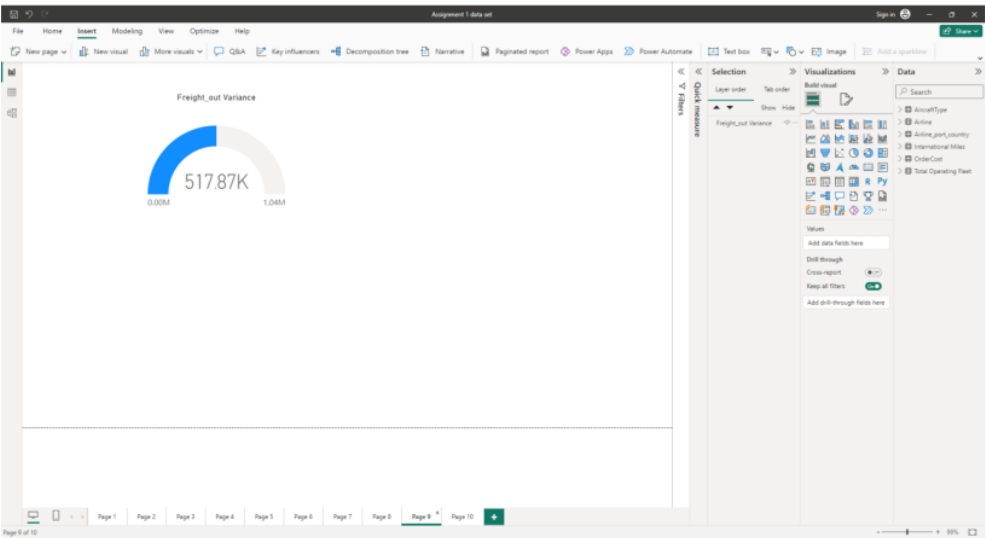
Task 7



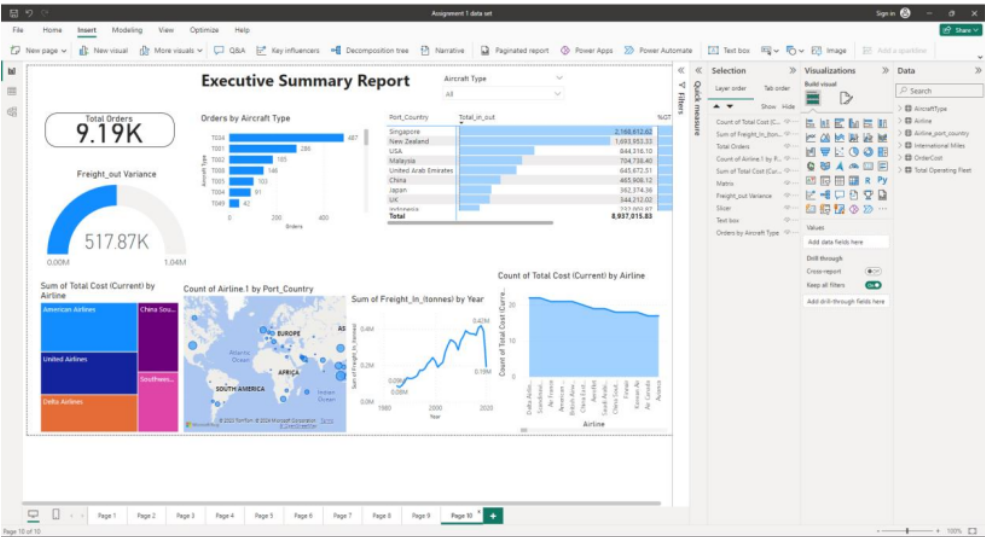
Task 8



Task 9



Task 10



Critiquing and Creating Data Visualisations (Callum Bailey)

GRADEMARK REPORT

FINAL GRADE

52/100

GENERAL COMMENTS

Task 1 :	5
Task 2 :	4
Task 3 :	3
Task 4 :	13
Task 5 :	6.5
Task 6 :	3
Task 7 :	2.5
Task 8 :	7.5
Task 9 :	4
Task 10 :	3.5

Hi Callum,

Good effort on successfully creating the Power BI report.

Given the nature of this scenario-based assignment, it would be beneficial to incorporate a clear introduction about Delta Fast Company and articulate the necessity behind creating the dashboard.

The visuals presented in the document exhibit clarity and good alignment. However, since these visuals are available in the Power BI file itself, their inclusion in the document without accompanying explanations may seem redundant. Providing context and explanations for the visuals in the document makes the information more meaningful for the reader.

In Task 9, right DAX expressions are chosen for finding variance and applying it to the gauge chart.

In summary, the dashboard is well-organized and clear except that the sections are missing specifics.

I trust these comments will be helpful. Feel free to reach out if you require further clarification.

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