

Assessment 1 Final

by Samuel Martin

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File name: 50549_Samuel_Martin_Assessment_1_Final_531139_1793625521.docx (679.25K)

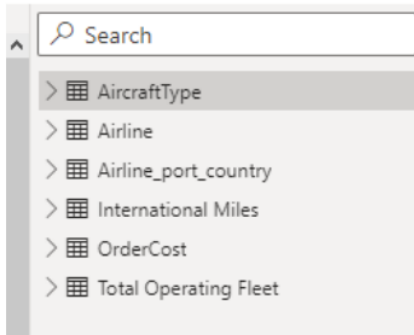
Word count: 339

Character count: 1428

Assignment 1 – Visualization and Data analytics

Questions and Tasks

Task 1 :



To do this task, I Imported each table into columns using power bi, this allows to be to transform and edit the data to complete the task, they were imported through the text/csv type.

A screenshot of a Power BI table view. The table has two columns: "Aircraft Type" and "Aircraft ID". The table contains 30 rows of data, listing various aircraft models and their corresponding IDs. The table is displayed in a grid format with a light gray background.

Aircraft Type	Aircraft ID
Airbus A319	T001
Airbus A320	T002
Airbus A321	T003
ATR 42/72	T004
Boeing 737	T005
British Aerospace BAe 146/Avro RJ	T006
De Havilland Canada DHC-8 Dash 8	T007
Airbus A319	T008
Airbus A320	T009
Airbus A320	T010
Antonov An-124	T011
Antonov An-140/An-158	T012
Boeing 747	T013
Boeing 747	T014
Boeing 777	T015
Boeing 787	T016
Boeing 787	T017
Boeing 787	T018
Boeing 787	T019
Boeing 787	T020
Boeing 787	T021
Boeing 787	T022
Boeing 787	T023
Boeing 787	T024
Boeing 787	T025
Boeing 787	T026
Boeing 787	T027
Boeing 787	T028
Boeing 787	T029
Boeing 787	T030
Boeing 787	T031
Boeing 787	T032
Boeing 787	T033
Boeing 787	T034
Boeing 787	T035
Boeing 787	T036

Here I created a new column using the add column feature which I obtained by right clicking on the table and inserting a new column.

Task 2 :

	A ^B _C Parent Airline	A ^B _C Airline	A ^B _C FlightNum
1	Aegean Airlines	Aegean Airlines	A001
2	Aegean Airlines	Olympic Air	A002
3	Aeroflot	Aeroflot	A003
4	Aeroflot	Rossiya Airlines	A004
5	Aeroflot	Aurora Airlines	A005

Hear I renamed the title of the columns b double clicking the columns headings, then deleting the first row of each column.

Replace Values

Replace one value with another in the selected columns.

Value To Find

null

Replace With

d

OK

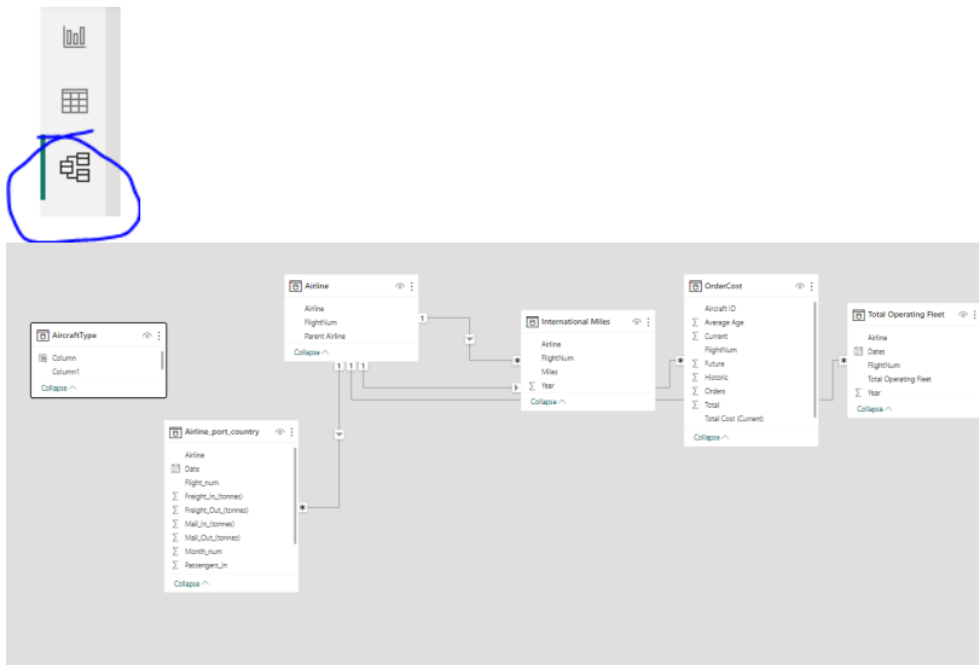
Cancel

J/x = Table.ReplaceValue("#Replaced Value4",null,0,Replacer.ReplaceValue,{"Average Age"})

current	1.2 Future	1.2 Historic	1.2 Total	1.2 Orders	A ^B _C Unit Cost
1	0	3	4	0	590
0	0	8	8	0	590
38	0	3	41	0	598
0	0	9	9	0	598
8	0	0	8	0	5115
2	0	0	2	0	522
0	0	6	6	0	522
0	0	17	17	0	574
0	0	6	6	0	514
12	0	7	19	0	551
0	0	14	14	0	575
26	0	5	31	0	590
0	0	15	15	0	590
10	0	0	10	0	590
71	1	3	75	11	598
5	0	8	13	0	598

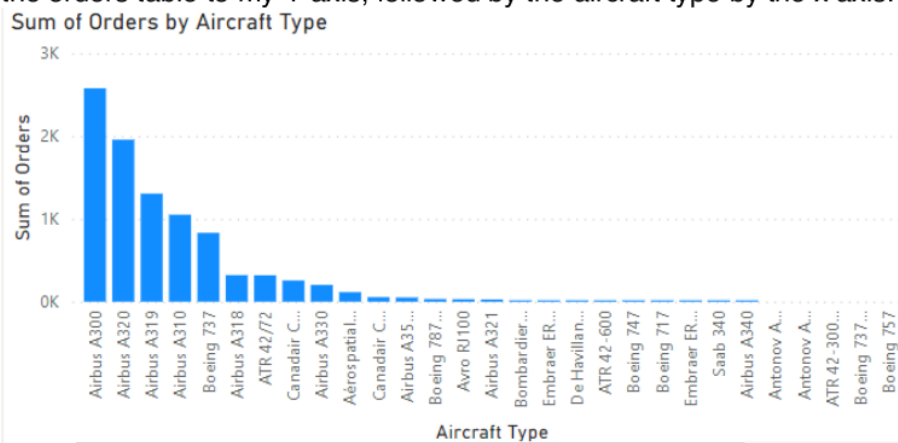
Task 3:

I got this view by selecting the model view application on my side bar:

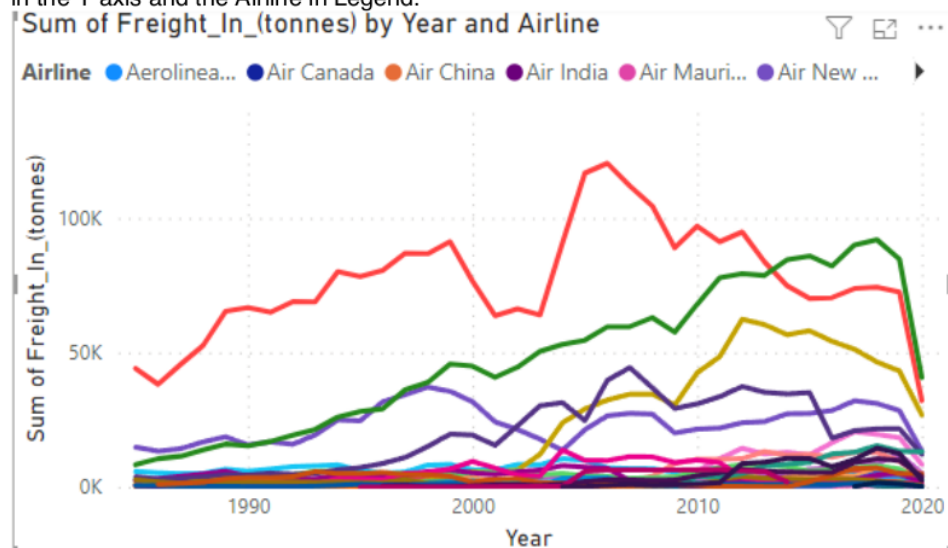


Task 4:

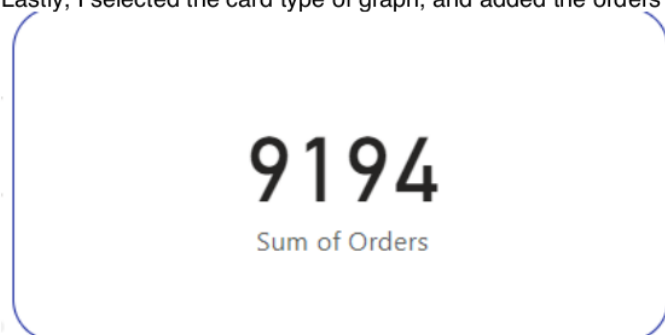
I first selected the bar chart feature on the Report view menu, then Submitted the orders table to my Y axis, followed by the aircraft type by the x axis.



Next, I selected the line chart for my next table, I put the Year in x axis. The sum of freight in in the Y axis and the Airline in Legend.



Lastly, I selected the card type of graph, and added the orders to it:



I then Formatted my graph with a border.

Task 5:

For this task, I selected the slicer table on the dropdown menu, then inserted the aircraft type to achieve a dropdown menu.

Aircraft ID

☐ T001

☒ T002

☐ T003

☐ T004

To enable the select all option, I went to the Selection tab in my side bar where I format my visuals Then enabled the option under the menu:

Selection

Single select
Off

Multi-select with C...
On

Show "Select all" o...
On

- Aircraft ID
- Select all

T001

T002

T003

Task 6:

I found the top 5 total cost airlines by sorting in descending order as shown here:

Airline	Total Cost (C
Air Busan	\$0
Air Cairo	\$0
Air New Zealand	\$0
AirAsia	\$0
All Nippon Airways	\$0
Anadolujet (100%)	\$0
Asiana Airlines	\$0
Azul	\$0
Edelweiss Air	\$0

Which I can then find the answers by scrolling to the bottom.

Task 7:

I selected the map type table in the format section and added the Port country and Airlines tab:

Port_Country



Task 8:

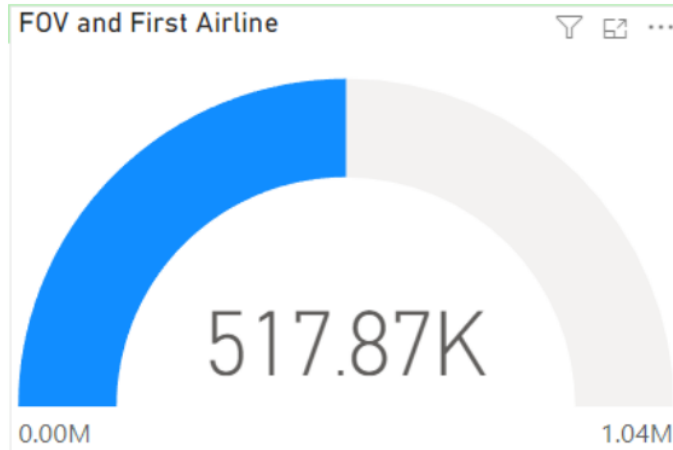
```
1 Total_In_Out = SUM(Airline_port_country[Freight_In_(tonnes)]) = SUM(Airline_port_country[Freight_Out_(tonnes)])
```

I used this function to calculate the total, The sum function adds the 2 together.

Port_Country	Total_In_Out	Total_In_Out_Percentage
American Samoa	225.67	22567.00%
Argentina	17,202.69	1720269.10%
Bahrain	50,872.90	5087289.90%
Belgium	6.70	670.00%
Brazil	176.12	17611.70%
Brunei	508.27	50827.40%
Canada	85,859.02	8585902.30%
Chile	2,686.62	268661.50%
China	812,669.78	81266978.00%
Cook Islands	1,675.00	167499.80%
Total	17,515,146.63	1751514662.50%

Lastly I formatted my columns as a percentage.

Task 9:



This is the chart that shows the freight out variance.

Task 10:



Assessment 1 Final

GRADEMARK REPORT

FINAL GRADE

27 / 100

GENERAL COMMENTS

Hi Sam,

Good attempt at submitting the assignment well ahead of submission time. Much appreciated.

Introduction and Conclusion:

A brief introduction and conclusion should have been included mentioning the reasons for the dashboard creation and what we infer from the report etc...

For all the sections, a detailed explanation of the values in the visual should have been added. All the screenshots should include the corresponding question number and labels.

The following are the individual comments for your tasks:

Task 1: 6 marks

All the necessary tables were imported to the Power BI application, however mentioning about power query editor could have added credits.

Task 2: 0.5 marks

Some of the data preparation steps were done making necessary changes before loading the data. However, the reasons for transforming data are missing. Sections iii, iv, and v were not attempted.

Task 3: --- 2 marks

The relationships between the tables should have been explained.

Task 4: ---5 marks

It is good that you have created a good and clear visual.

However, some of the screenshots provided here don't match the actual chart in your report. In addition to the screenshot, you should have briefly explained the values shown in the visual.

Task 5: ---2

A slicer for different airlines has been included in the visual. However, it doesn't seem to be working. On a general note, screenshots could have been taken by making the required visual in the spotlight from the report which could have helped me understand better

Task 6: ---1 mark

A tree map is the best way to represent the top 5 airlines. A brief description of the top 5 airlines and their corresponding cost should have been added.

Task 7:---1 mark

The map should represent the count of different airlines in various countries.

Task 8: ---5 marks

The measure for summing up both freight in and out has been successfully created, however, the final goal was to identify the busiest airport. A brief explanation of the analysis is missing.

Task 9: --3 marks

Variance has not been calculated from the freight out column to be used in the gauge chart.

Task 10: ----2 marks

The report was well created with clear differentiation between all the visuals however the formatting style as per the requirement which is an important feature in PowerBI was not followed.

I hope these comments will be of help in your future assignments.

Please let me know should you have any further clarifications.

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