

**Data Technician**

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| Name: Michael Thirlaway |
| Course Date: 21/07/2025 (start of week 2) |
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# Day 1: Task 1

Please research the different versions of Tableau, compare and contrast them below and explain the limited functionality on ‘Tableau Public’.

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| Different Tableau versions | Tableau Public has limited functionality as a free version. The limits of its functions include no local file saving, as you are only allowed to save workbooks on Tableau Public’s online server. There is no privacy as all your work is public. You can only connect to files from Excel or CSV, not larger databases. More advanced analytics and customizations are not supported. This version is mainly designed for learning and personal projects. |

# Day 1: Task 2

Using the *EMSI\_JobChange\_UK* dataset, create your own dashboard, I want to see a bar chart showing percentage change and a UK based map showing the key city locations impacted.

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| Paste your print screen here |  |

# Day 2: Task 1

Using the Spotify data set, conduct an analysis to find trends and key information that could be used by an organisation for future projects.

There is no set scope for the analysis, simply to find trends and document them below:

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| Paste your print screens here |  |

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| What did you find? | In this analysis, I discovered there is no correlation between the duration of a song and its popularity. |

# Day 2: Task 2

Using the Health, conduct an analysis to find trends and key information that could be used by an organisation for future support.

There is no set scope for the analysis, simply to find trends and document them below.

* Data can be lifesaving and is being used more within the NHS, reflect on how this data could support decision making for the NHS.

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| Paste your print screens here |  |
| What did you find and any reflections on how the NHS could use this? | In my data, I evaluated each of the cancer rates, stomach, lung, and liver, on a visual map. To find if there was any correlation between cancer rates and life expectancy, I chose stomach cancer to compare to life expectancy on a scatter graph. While my trend lines did not show a direct correlation, on the data, we can clearly see that countries with higher life expectancy have more stomach cancer rates, and can conclude that because people live longer in these countries, there is more time for them to develop stomach cancer as they age.  In the third image, I divided the cancer rates by the overall population for a per capita rate so that I could stop the outliers, like China which has a big population, from skewing the graph.  After doing scatter charts for the rest of the cancers, there is more interesting information revealed. While each trend line, like before, did not confirm that there is a direct correlation, in the case of lung and stomach cancer, we can see the developed nations with a higher life expectancy have more cancer rates. Liver cancer, on the other hand, is higher for lower developed countries with lower life expectancies, not quite matching the rates of some Asian countries, but still over taking some European countries. A hypothesis here could be that levels of alcoholism are higher in the lower developed countries due to a lack of amenities or other cultural factors. I do not have data in this graph to prove this hypothesis about alcoholism rates, but it is an educated guess as of now. |

# Day 3: Task 1

Please complete Lab 1 ‘Get Data in Power Bi Desktop’. Once complete, paste a print screen below and in the collaboration board.

“Teaching is the best way to learn, so please listen out for support requests from the class and we’ll work through the challenges together”

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| Paste your completed lab here |  |

# Day 3: Task 2

Please complete Lab 2 ‘Load Transformed Data in Power BI Desktop’. Once complete, paste a print screen below and in the collaboration board.

“Teaching is the best way to learn, so please listen out for support requests from the class and we’ll work through the challenges together”

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| Paste your completed lab here |  |

# Day 4: Task 1

Please complete Lab 8 ‘Design a Report in Power BI Desktop’. Once complete, paste a print screen below and in the collaboration board.

“Teaching is the best way to learn, so please listen out for support requests from the class and we’ll work through the challenges together”

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| Paste your completed lab here |  |

# Day 4: Task 2

Please complete Lab 12 ‘Create a Power BI Dashboard’. Once complete, paste a print screen below and in the collaboration board.

“Teaching is the best way to learn, so please listen out for support requests from the class and we’ll work through the challenges together”

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| Paste your completed lab here |  |

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| **Course Notes** |

It is recommended to take notes from the course, use the space below to do so, or use the revision guide shared with the class.

We have included a range of additional links to further resources and information that you may find useful, these can be found within your revision guide.

**END OF WORKBOOK**

**Please check through your work thoroughly before submitting and update the table of contents if required.**

**Please send your completed work booklet to your trainer.**

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| **Information** |