

**Data Technician**

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| Course Date: 15/09/2025 |
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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 | There are different versions of Tableau such as Tableau Desktop, Tableau Online, Tableau Server, and Tableau Public. Each of the versions have different purposes and functionality levels. The Desktop version is a full version where users can create advanced dashboards and to produce easy and effective data analysis. Server version is to be hosted is to be used within a business within a server being used to create a cloud based system with use of Tableau Online, both of them are useful to access and interact with visualisations online. The Public version is the free version that allows to create and publish dashboards of Tableau users online, however, it has some functionality limitations as it only allows saving work publicly, which means the data is not private and cannot be protected, moreover, it has les options for data connection. On the other hand, the paid version has more usability for businesses and with sensitive data. |

# 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? | After some data analysis, it has bee found out that the most popular artist in the top 30 list has the most word count. Data analysis also has shown the most long songs aren’t popular on average compared to the popular genres that have average duration among them. Moreover, the top 10 artists have different liveliness and use of keys in the song, the most lively songs are produced by an author who uses most of the keys moderately compared to the other authors who don’t use certain song keys almost at all, which might show the creativity of the authors and their use of the keys to improve music quality. |

# 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? | The data analysis investigation has conveyed to some results that show trends of population growth, their health among the countries. First of all, the data shows average BMI and stomach and liver countries correlation, which might be useful for NHS to determine population’s trends for eating behaviours and which ethnicity struggles from cancer most. Population growth overtime with forecast can be useful for predicting expenses on helping families with giving birth, NHS could ask government for additional financial support to improve service for families who struggle with giving birth and child care. BMI and life expectancy also correlation shows how body weight can affect one’s health and life expectancy, NHS could propagate body care, psychotherapy, and visiting gastroenterologists for people with harmful eating behaviour, anorexia, or bulimia. |

# 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** |