

**Data Technician**

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| Name: |
| Course Date: |
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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 | Tableau Desktop | | Pros | Tableau public is free to use making it more accessible to people who do not wish to pay for the license for tableau desktop. It is easy to share visualisations that you have made to the community helping you gain input and feedback. You do not need to install any software as it is web based so there is less stress on your machine. | Tableau desktop offers all the features possible to allow you to make complex analysis and visualisations also you can use sensitive data as it has strong privacy features also it is an offline software allowing you to use it even when you have no connection | | Cons | There is limited functionality in the public version of tableau as it is web based and not software as there are many features not available such as no private workbooks meaning you cannot use sensitive data no advanced features available in the desktop version so the visualisations can only be done using core proponents. | The cost involved in tableau desktop makes it not really worth it if you are not using the wide range of features available also it is more difficult to use which can be intimidating for beginners. | |

# 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 | Trend 1    Trend 2    Trend 3 |

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| What did you find? | The first trend Identified above is the most popular genres of music I did this in a bar chart format displaying the popularity of each genre in relation to the other genres. From this we can gain some valuable insight based on the types of genres that are popular and the types of genres that are not. One such insight is the fact that children’s music is one of the least popular genres of music this can show that mothers of children do not utilize Spotify all that much compared to other demographics Spotify can then use this trend to try and appeal no mothers of children more. Another insight that can be gained from the first trend identified is the popularity of pop music this can be seen from the charts as pop songs fill the top 5 so it is a sign that the charts are not being manipulated and pop music really is very popular.  The second trend identified above is the most popular songs on the platform. This trend is important as it can show Spotify the type of songs their userbase likes and can lead to them tweaking their algorithm and pushing the songs of this genre to their users more often.  The third trend identified is the acousticness and the danceability of different song genres through a scatterplot. This can show the palpability of different genres to the Spotify data team. A song genre that is easy to dance to and easy to listen to is a genre that they could push through their algorithm if users have an enjoyable time listening to music on Spotify this can encourage customer retention as there is little difference between music apps but the algorithm being better could be an advantage. |

# 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 | Trend 1  Life expectancy per continent.    Trend 2  Average Cholesterol and blood pressure among men and women    Trend 3  Life Expectancy distribution Histogram |
| What did you find and any reflections on how the NHS could use this? | The first trend can be used by the NHS to try and target any recent immigrants from that particular continent. For example, a public health campaign aimed at recent arrivals from Africa as they have the highest bmi and this has a positive correlation with many different health problems like heart disease this can save lives and target the people who need help. Also they can use this to research which factors lead to this continent having such a high bmi for preventative reasons.  The second trend displays the average cholesterol and blood pressure differences with men and women. The data is interesting because men have a higher blood pressure but women have higher cholesterol on average. The nhs could use this data to encourage women to get check ups for cholesterol or men to get check ups for blood pressure. Also they could target patients they view as being vulnerable for random check ups.  The third trend is a life experience histogram it shows the distribution of the global population and which age they tend to die at the most common age for death being 75. This could be used to try and determine why some people’s life expectancy is shorter and some are longer and the nhs could then set out policies to help prevent early death in the groups with low life expectancy. |

# 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 6 ‘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 10 ‘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** |