

**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 Desktop | Tableau Server | Tableau Online | Tableau Public | Tableau Prep | | . Primary authoring tool for creating reports and dashboards. | . Allows organizations to host Tableau dashboards and reports on their own servers.  . Features: User Management, permissions and collaboration tools. | . Cloud based version of Tableau Server.  . Features: Similar to Tableau server but hosted by Tableau, making it easier for organizations to manage without local infrastructure. | . Free version for creating and sharing visualizations publicly.  . All work is saved publicly, and there are restrictions on data connections. | . Tool for Data Preparation and cleaning before analysis in Tableau  Desktop.  . Tableau Prep Builder- used for creating data prep flows.  . Tableau Prep conductor- for scheduling and managing flows on Tableau server or Tableau online. | |

# 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 | The key cities impacted: Edinburgh, London, Liverpool, Brighton, Newcastle-Sunderland, Swansea, Cardiff-Newport, Birmingham, Nottingham-Derby, Southampton-Portsmouth |

# 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? | 1st screenshot: The graph shows the top music genre based on the popularity score, in this case Pop is the most popular music genre.  2nd screenshot: The graph shows the top music genre based on the danceability score, which shows as Hip Hop having the highest score.  3rd Screenshot: This graph shows the average energy levels of tracks by genre, to help identify the high energy genres. The genre with the highest average energy level was SKA, followed by comedy and anime. The lowest average energy level of genre was opera, with an average energy level of 0.1688. |

# Day 2: Task 2

Using the Health data set, 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 | 1st screenshot: This shows the comparison of the rates of liver cancer and lung cancer by continent. As we can see, Asia has the highest rates of both liver and lung cancer. The NHS can use this data to compare UK’s lung and liver cancer with other regions in Europe and continents all around the world. This can then lead the NHS to conduct further analysis by potentially looking into why each continent has lower or higher rates of liver and lung cancer.  2nd screenshot: This is a health index which combines BMI, Blood pressure and Cholesterol and how it compares between each continent. The NHS can use this to compare the UK to other areas of the world and see if they can improve or identify how the UK can maintain a healthy population. |
| What did you find and any reflections on how the NHS could use this? |  |

# 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 9 ‘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** |