

**Data Technician**

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| Course Date: 21 April 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 | * **Tableau Desktop** - is a data visualization software that allows you to connect, visualize, and share data in an easy-to-understand format. It is the only authorized tool that Drag-and-dropauthorized provides drag-and-drop features and allows all the functionalities.   **2 versions: Individual and Professional**.  **Individual** - Users can access the local files and all other data sources. But it does not allow the functionality to upload it to Tableau Online and Tableau server.  **Professional** - It offers more premium features such as live data contributions, and also the organization can also publish to Tableau Online and Tableau Server.   * **Tableau Online** - is a cloud-based platform that performs the same functionality as Tableau Server   Accessibility and adaptability: Tableau Online gives users the freedom to utilize a web browser from any place to access their visualizations, which is useful for remote work or cross-location collaboration.  Data security: To protect user data, Tableau Online provides strong security features, such as encryption, secure connections, and user authentication. In order to protect data privacy and confidentiality, it adheres to industry best practices.   * **Tableau Server** - is a web product of Tableau that allows users to do collaborative work on the same database at two different places. People can access it, either through mobile or the desktop. Moreover, it also provides more security, user roles, permissions and scheduling options.   Controlled and consistent access to data is ensured via Tableau Server’s centralized platform, which users may utilize to publish, distribute, and manage their representations.  Scalability: Tableau Server is appropriate for enterprise-level deployments since it can handle enormous amounts of data and user traffic   * **Tableau Public** - is a free product of Tableau which provides some limited functionalities for those who want to learn data visualization and understand business Intelligence.   Is not for commercial use.  Has restrictions on the types of data sources that can be connected to. There are limitations on the size of datasets that can be uploaded and processed. It is not possible to share data on this platform that contains sensitive or private information.   * **Tableau Prep** - intended to assist users with cleaning, shaping, and combining data from diverse sources so that it is ready for analysis and visualization in Tableau Desktop or Tableau Server. As data cleaning is the first and foremost step which is of high importance otherwise datasets may contain NULL values and may result in wrong prediction of 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? | The most popular genre of music is Pop.  The most danceable genre is Hip Hop.  The most energetic genre is Ska.  The most acoustic genre is Classical.  Negative correlation when comparing Liveness with Loudness against all genres. |

# 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? | Asian population is the largest when compared to other continents.  Americas population growth has declined whilst other continents have remained constant.  Ireland Libya has the highest blood pressure.  Kenya has the lowest Cholesterol.  Zimbabwe has the highest BMI.  Asian men and women, of all the continents are at the highest risk of all types of cancers (Liver, Lungs and Stomach) which has increased over the years.  Oceanic continent is the least at risk of cancers. |

# 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** |