

**Data Technician**

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| Name: Mumin |
| Course Date: 22/04/2025 |
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**Table of contents**

[Day 1: Task 1 2](#_Toc712793425)

[Day 1: Task 2 2](#_Toc122426496)

[Day 2: Task 1 3](#_Toc883045340)

[Day 2: Task 2 3](#_Toc1787656936)

[Day 3: Task 1 4](#_Toc621661729)

[Day 3: Task 2 5](#_Toc1930110380)

[Day 4: Task 1 6](#_Toc397995405)

[Day 4: Task 2 7](#_Toc511288934)

[Course Notes 7](#_Toc1126090548)

[Additional Information 8](#_Toc346271685)

# 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 8 different version of Tableau and here are some of them:   * Tableau desktop is a tool mainly focus on data visualization and is best for data analysis and business analysis. The key features it has are creating dashboards, connect to data, and can publishes to Tableau severs. * Tableau public is a free version cloud based of Tableau desktop and its best suited for students or a small personal project. The key features user friendly interface for creating visualizations but does not save private but in a public tableau gallery. The limitation are no private storage, limited data sources, no secure data handling, and a basic customization. * Tableau sever is a platform for sharing data and dashboards securely in the organization and is best for company that share their data with another or for large set of teams. The key features are security, controlled access to reports and dashboards. * Tableau online is a cloud hosted version from the severs managed my Tableau and is best for small to medium business and small remote teams. The key features are no set up required, and it is accessible anywhere with the login. |

# 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 trend in genre popularity I found was Pop, Rap, and Hip-Hop are top three trendy song genre and are guarantee to make huge amount of profits. As you can see on my dashboard Drake is the most popular artists is known for the three genres that are the trendy in genre. I also found lower the artist popularity the less genre music they make tend to stick with one genre.  Popularity vs Danceability (Scatter Plot) Genres like Dance, Pop, and Hip-Hop show high scores for both popularity and danceability, making them ideal for upbeat, energetic playlists. Genres like Opera, Classical, and Soundtrack are low in danceability but may offer value for relaxing or studying audiences.  And for the organization they can use this for marketing campaigns like focusing on genres Pop, Hip-Hop, and Rap. And giving recommendation on playlist and features. |

# 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 the UK Lung Cancer and Liver Cancer were the most common among both men and women. Men had consistently show higher rates across all cancer types, particularly Lung Cancer, which exceeds 27,000 cases per year for men and about 18,000 for women. The stomach cancer is steady but show a lower presence which it may require a less urgent focus compared to the other.  In the UK life expectancy has increased overtime for both men and women whereas blood pressure levels have also increased, particularly for men, which could indicate rising cardiovascular risks. It's clear a gender gap exists, and women live longer than men but have lower blood pressure.  Since men's blood pressure are increasing it may be linked to heart risks. The NHS could expand preventive care programs targeting heart health, especially for men. |

# 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 | Inserting image... |

# 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** |