

**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 | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Feature | Tableau Desktop | Tableau Prep Builder | Tableau Server | Tableau Cloud | Tableau Reader | Tableau Public | | Primary Use | Authoring & Analysis | Data Preparation | Internal Sharing (On-Prem) | Internal Sharing (Cloud/SaaS) | Viewing Offline | Public Sharing | | Cost | Paid (Creator License) | Paid (Bundled w/ Creator) | Paid (Server & User Licenses) | Paid (User Licenses) | Free | Free | | Hosting | User's Machine | User's Machine | Customer Infrastructure | Tableau Hosted | User's Machine | Tableau Public Cloud | | Data Connection | Very Wide | Wide (Prep Focus) | Via Published Sources | Via Published Sources | None | Limited | | Saving/Sharing | Local / Publish Securely | Output Files / Publish Securely | Secure Web Platform | Secure Web Platform | Open Local .twbx | Public Cloud Only | | Security | Local / Server Control | Local / Server Control | Granular Permissions | Granular Permissions | None | None (Public) | | Data Refresh | Manual / Publish | Manual / Publish | Scheduled | Scheduled | None | Manual Only |   Limited Functionality on Tableau Public  Tableau Public is powerful for a free tool, but its limitations compared to the paid Tableau Desktop/Server/Cloud ecosystem are significant, primarily revolving around privacy, data access, and automation:  **Mandatory Public Sharing**: This is the biggest limitation. You cannot save workbooks locally (except for temporary backup/recovery files). Every visualization or dashboard you save is uploaded to your public profile on the Tableau Public website, visible to anyone on the internet. They can also typically download the workbook and access the underlying data. This makes it unsuitable for any confidential or proprietary company data.  **Limited Data Connectors**: Tableau Public has far fewer data connectors than Tableau Desktop. You can connect to files like Excel, text files, spatial files, statistical files, and web sources like Google Sheets and OData. However, you generally cannot connect directly to most enterprise databases (like Microsoft SQL Server, Oracle, PostgreSQL, etc.) or many cloud data warehouses that Tableau Desktop supports. This restricts its use with live, internal company databases.  **Data Volume Limits**: There are restrictions on the amount of data you can use in a workbook (historically around 15 million rows, though this can change and may vary). Paid versions handle much larger datasets.  **No Automatic Data Refresh**: Data in Tableau Public visualizations is static. If the underlying data (e.g., in your source Excel file or Google Sheet) changes, you must manually open the workbook in Tableau Public Desktop, refresh the data, and re-save/re-publish it to update the online version. Tableau Server and Cloud offer scheduled automatic refreshes.  **No Granular Security/Collaboration**: Since everything is public, there are no options for setting specific user permissions, creating private user groups, or secure internal collaboration features found in Server and Cloud.  **Limited Server Functionality**: You cannot publish data sources separately for central management, and features like commenting, alerts, subscriptions, and advanced administrative controls found in Server/Cloud are not available. |

# 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? |  |

# 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? |  |

# 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 7 ‘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** |