

**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 |  |

| **Version** | **Year** | **Key Features** |
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| **Tableau 1.0** | 2004 | - Initial release focusing on basic data visualization and business intelligence. |
| **Tableau 2.0** | 2005 | - Ability to work with different data sources.  - Initial version of data blending. |
| **Tableau 3.0** | 2006 | - Introduction of "Drag & Drop" interface.  - Ability to create interactive visualizations. |
| **Tableau 4.0** | 2008 | - Enhanced performance for larger datasets.  - More data connectors added for better integration. |
| **Tableau 5.0** | 2010 | - Introduction of **Tableau Server** for sharing and collaboration.  - Enhanced support for web-based visualizations. |
| **Tableau 6.0** | 2011 | - Introduction of **Tableau Public** (free version to share public visualizations).  - Improved integration with cloud. |
| **Tableau 7.0** | 2012 | - Enhanced **mobile** capabilities.  - Expanded data source connectivity and blending. |
| **Tableau 8.0** | 2013 | - Advanced **visualization types** added.  - Data blending enhancements.  - Better integration with big data. |
| **Tableau 9.0** | 2014 | - Introduction of advanced analytics (e.g., forecasting, trend lines).  - **Data governance** improvements. |
| **Tableau 10.0** | 2016 | - New **dashboard design** options.  - Better mapping features.  - Enhanced performance for large datasets. |
| **Tableau 2018.1** | 2018 | - Introduction of **web authoring** (create and modify workbooks on Tableau Server/Online).  - Improved collaboration. |
| **Tableau 2019.1** | 2019 | - Launch of **Tableau Prep Builder** (data preparation tool).  - Improved cloud integration (AWS, Google Cloud). |
| **Tableau 2020.1** | 2020 | - Introduction of **Tableau Catalog** for better data governance.  - Improved **cloud data sources** integration. |
| **Tableau 2021.1** | 2021 | - Enhanced **AI-driven analytics** (e.g., "Explain Data").  - Improved mobile and collaboration features. |
| **Tableau 2022.1** | 2022 | - New dynamic parameters feature.  - Enhanced **map visualizations**.  - Improved Tableau Prep functionality. |
| **Tableau 2023.1** | 2023 | - Improved **performance with native connectors**.  - Enhanced integrations with **Snowflake**, **Databricks**.  - Advanced machine learning model support. |

# 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? | Findings: -   * Most Popular Artist is Drake among listeners. * Pop is the most Popular Genre, which is at 6.53% Total Popularity percentage. * Hip hop songs are the most preferred for dance. |
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# 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? | Findings: -   * Africa shows highest percentage of 44.81% among Continent wise Population growth next to Asia 33.5% * Country wise life expectancy shows that Japan stands at 1st, Ireland at 20 , UK at 22 , US at 28 and the last Liberia stands at 118 * Gender wise Analysis of Medical conditions between Men and Women Globally, with Stomach Cancer being the most among both genders, the analysis shows that men (70% )suffer from lung cancer more than women (30%) |

# 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** |