

**Data Technician**

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| Course Date: 09/03/2025 |
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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 2019.1 | 2019.1 includes the launch of Ask Data, an entirely new way to interact with your data in Tableau, as well as Tableau Prep Conductor, a new add-on to Tableau Online and Server that enables data preparation at scale by automating processes and flows. Also enjoy data-driven alert views, dashboard zone names, and URL action improvement. | | Tableau2019.2 | 2019.2 includes exciting new ways to interact with your data and new dashboarding capabilities that come together to make a big difference for a more precise, streamlined authoring experience. Enjoy parameter actions, vector maps, and a new way to browse your content on Tableau Server and Online. | | Tableau2019.3 | 2019.3 brings new capabilities to help you and your organization do more with your data. Understand the “why” behind outliers with Explain Data, build trust in your data with Tableau Catalog, and operate at even greater scale with our new Tableau Server Management Add-on offering. Also enjoy enhancements such as encryption at rest, the ability to embed Ask Data, and the ability to connect to published data sources in Prep Builder. | | Tableau2019.4 | 2019.4 brings functionality to make it easier for customers to find, connect to, and analyze their data. Highlight features this release include significant table improvements, view recommendations for Tableau Server and Online, and Webhooks support to help further integrate and extend the Tableau platform. | | Tableau 2020.1 | Tableau 2020.1 includes exciting ways to add powerful interactivity to your data, bringing to life some of the most-requested features from the Tableau Community. Enjoy dynamic parameters, buffer calculations, and viz animations to tell even more powerful, moving stories behind your data. | | Tableau 2020.2 | Tableau 2020.2 brings significant enhancements to help organizations through their analytics journey. Highlights include Metrics, set control, and enhancements to Tableau's data model with relationships to help you elevate your relationship with data. | | Tableau 2020.3 | Tableau 2020.3 brings powerful functionality to help scale your analytics, making trusted data more accessible to everyone. Highlights include write to external databases in Tableau Prep, grant license on sign in, and deeper integration with SAP. | | Tableau 2020.4 | Tableau 2020.4 brings practical enhancements to make analytics in your organization more seamless and scalable. Highlights include Tableau Prep Builder in the browser, spatial improvements, and Resource Monitoring Tool for Tableau Server on Linux. | | Tableau 2021.1 | Tableau 2021.1 brings exciting functionality to help your people make smarter, faster, business decisions. Highlights include Einstein Discovery in Tableau, quick LODs, and new unified notification experience. | | Tableau 2021.2 | Tableau 2021.2 brings the power of data to everyone across your organization so that anyone can ask questions and get answers from their data. Highlights include new experiences for Ask Data and Explain Data, Collections, and a connected Tableau Desktop experience for web authoring. | | Tableau 2021.3 | Tableau 2021.3 is here with new capabilities to bring efficiency to your workflows and organization at scale, so that you and your team can move faster and make more effective business decisions. Highlights include updates to Data management, Tableau notifications for Slack, and Personal Space on Tableau Server and Online. | | Tableau 2021.4 | Tableau 2021.4 is here with new capabilities to better support secure, connected analytics in the flow of your business—and of course, some delightful capabilities to help you work faster and get more value from your data. | | Tableau 2022.1 | Tableau 2022.1 is here with new capabilities to help you more efficiently analyze data and confidently manage the platform, while scaling Tableau across your organization so that everyone can make better business decisions and get more value from your data. | | Tableau 2022.2 | Tableau 2022.2 delivers new capabilities that make data easier for everyone to use, including more efficient data prep and faster analysis. Highlights include Data Stories, Autosave in the browser, and the In-product Exchange. | | Tableau 2022.3 | Tableau 2022.3 brings new capabilities that help you easily unlock insights about your data at scale. Highlights include Data Guide, Table Extensions, dynamic zone visibility, and more. | | Tableau 2022.4 | Tableau 2022.4 delivers new capabilities to save you time and effort. Highlights include Tableau External Actions, Usage Metrics, ideas from the Tableau Community, and more. | | Tableau 2023.1 | Tableau 2023.1 has new capabilities that empower everyone to make data-driven decisions. Highlights include Accelerator Data Mapping, Tableau for Slack enhancements, Identity Pools, and more. | | Tableau 2023.2 | Tableau 2023.2 has new capabilities that help you analyse your data more effectively and efficiently. Highlights include unified tooltips, a new Data Cloud connector, multi-row calculations in Tableau Prep, and more. | | Tableau 2023.3 | Tableau 2023.3 has new capabilities that help you see, understand, and act on your data. Highlights include | | Tableau 2024.1 | Tableau 2024.1 has new capabilities that help you drive better and faster decision-making with trusted generative AI. Highlights include Tableau Pulse, Amazon Marketplace availability, Viz Navigation for Text Table, and more. | | Tableau 2024.2 | Tableau 2024.2 has new capabilities that help you create with data in new ways and explore data with an AI assistant in Tableau. Highlights include Tableau Agent, Tableau Pulse enhancements, Multi-Fact Relationships, Viz Extensions, and more. | | Tableau 2024.3 | Tableau 2024.3 offers new ways to visualize your data and makes it easier for organizations to administer analytics at scale. Highlights include Tableau Cloud Manager, Table Viz Extension, Spatial Parameters, Tableau Cloud App for Microsoft Teams, and more. | |  |  | |

# 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 | Trend across the Danceability, Energy, Tempo VS Liveness, Loudness, Popularity  This chart was trying to understand the scatter and trend chart.    Danceability vs Popularity trend for Music |

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| What did you find? | Using line chart and scatter chart it helps to find trend among the different genre, danceability, popularity, energy.  Which can give an idea to musician what should make their music more joyful and popular, |

# 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 | Popularity by year      Population Growth by Continents  Life Expectancy by Country Gender wise      Trend between BMI,BP and Cholesterol  Trend over the years between Liver cancer and Lung cancer |
| What did you find and any reflections on how the NHS could use this? | Using given data, it can help to identify trend in disease and help them to prevent.  also gives an idea about birthrate by each Continent.  Also shows gender wise birthrate. Able to predict the life acceptancy. |

# 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 | For above report the target values didn’t populated, I have tried few times.  Reports In Power BI services |

# 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** |