

**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** | **Desktop** | **Public** | **Server** | **Cloud** | **Prep** | **Reader** | | --- | --- | --- | --- | --- | --- | --- | | **Authoring (build dashboards)** | Primary authoring environment | limited connectors | Web authoring only | Web authoring only | data prep only | Free local viewer for Tableau packaged workbook | | **Data connectors** | databases, cloud, files | Files + Google Sheets | Inherited from Desktop | Inherited from Desktop | Multiple prep sources | N/A | | **Live DB connections** | Allow | Don’t allow | Allow | Allow with Bridge | Don’t allow | N/A | | **Scheduled refresh** | Via Server/Cloud | Google Sheets only | Available | Available | N/A | N/A | | **Private sharing** | With Server/Cloud | (all public) | Available | available | N/A | Local only | | **Governance/security** | Via Server/Cloud | No security | Full security | Full security | No security | No security | | **Cost** | Paid license | Free | Paid license | Paid subscription | Included in Creator license | Free |   **Limited functionality on ‘Tableau Public’:**  1.Everything we publish is public.   * Workbooks and their underlying data that we publish to Tableau Public are accessible to anyone who has or finds the URL.   2. Limited connectors / only extracts (no live private connections).   * Tableau Public supports uploading files (Excel, CSV, etc.), Google Sheets and some web data connectors. It does not support live connections to private databases or most enterprise connectors.   3. Data refresh restrictions.   * Google Sheets connections can auto-refresh once per day (Tableau Public assigns a daily time window). For other data sources (e.g., Excel/CSV uploaded to Public), automatic refresh is not supported.   4. Size / row / storage limits   * Per-user storage: Tableau Public provides 10 GB of storage for our published content. * Per-workbook / row limits: Tableau Public enforces practical limits on workbook size; many official/community references state a 15 million rows cap per workbook. Tableau’s general docs also repeat a 1 GB maximum file upload for web-authoring/file uploads in web products.   5. No enterprise governance / admin features / SSO / row-level security.   * Tableau Public has no admin controls, SSO, or enterprise security features. |

# 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:

|  |  |  |  |
| --- | --- | --- | --- |
| Paste your print screens here | Analysis for popularity with Genre    Analysis for Characteristics by Genre  Analysis for Accousticnesss and Popularity with Genre    Analysis of popularity by Genre      Analysis of popularity with Artist Name | | |
|  |  | | |
| What did you find? | | I analysed and found which artist gained more popularity with movies in various Genre.  Analysed the different characteristics with respect to Genre. |

# 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 | Health Indicators    Life Expectancy    Showing Trendlines |
| What did you find and any reflections on how the NHS could use this? | I found the average life expectancy in each continent and compared the cancer rates in each continent every year. So, NHS could use this analysis to find out people from which continent is most affected and take necessary steps to decrease the number in forthcoming year. |

# 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”

|  |  |
| --- | --- |
| Paste your completed lab here | Checking Column Quality and Column distribution    To view Column Profile of ResellerKey column    Adding another Data source which is CSV file in Power Query Editor (ResellerSalesTargets)    Query based on ColourFormat.csv file |
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# 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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|  | Loading Starter Sales analysis Data into Power Query Editor  Renamed Dimemployee to Salesperson  To remove some columns from the table and then keeping the columns that is needed: |
|  | Merging first Name and Last Name column |
|  |  |
|  | As Dimproductsubcategory column has value links,expand it by selecting the columns needed. |
|  | Configured Reseller query and included only three columns in DimGeography column |
|  | Replacing Ware House to Warehouse in BusinessType column |
|  |  |
|  | Renamed FactResellerSales query to Sales and selected the required columns: |
|  | Added custom column(cost) to add the cost if total product cost is null |
|  | Unpivoted the 12 month columns and new column “Attribute” is created. |
|  | Merged Colourformat and Product table using Left Outer Join |

# Day 4: Task 1

Please complete Lab 8 ‘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 |  |
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# Day 4: Task 2

Please complete Lab 12 ‘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** |