

Data visualisation: essential Excel and Power BI functions for pharmacy

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Course outline

| Area | Learning objectives |
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| Part Zero: Data connection set up | Import sample Excel data into both Power BI and Excel workspaces using appropriate connection methods Demonstrate the basic steps for establishing data connections in both Power BI and Excel Verify successful data connections by confirming data accessibility in both platforms Troubleshoot common connection issues that may arise during the setup process |
| Part One: Using Excel to total the biggest medication movers in the data set | Generate simple column graphs using imported data Create column graphs to visualise medication dispensing patterns Compare the effectiveness of different chart types for presenting negative values Analyse medication movement trends using Excel's visualisation tools |
| Part Two: Using Power BI to total the biggest medication movers in the data set | Create column graphs in Power BI to display medication movements Transform raw dispensing data into meaningful visual representations in Excel and Power BI Compare the functionality of Power BI and Excel for column graph creation |
| Part Three: Tracking stock movement changes over time in Excel (data trends and changes) | Create week, month and year formulae to facilitate detailed data analysis Create line graphs to track continuous stock movement data Interpret temporal patterns in medication stock levels Select appropriate time intervals for meaningful trend analysis |
| Part Four: Tracking stock movement changes over time in Power BI (data trends and changes) | Create week, month and year formulae to facilitate detailed data analysis Combine multiple data types in a single visualisation using dual axes Explain how to create composite charts showing two types of data over time or across categories Analyse relationships between different stock movement variables using Power BI |
| Part Five: Using box and whisker plots in Excel | Explain what a box and whisker plot is, including how and when it can be used to visually represent data Construct box and whisker plots in Excel to analyse dispensary workload patterns Identify dispensary busy periods over a series of weeks in the data set Identify outliers in dispensary activity data using created box and whisker plots Interpret the statistical significance of workload variations using |

created box and whisker plots



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| Part Six: Using box and whisker plots in Power Bl | Construct box and whisker plots in Power BI to analyse dispensary workload patterns Identify dispensary busy periods over a series of weeks in the data set Apply slicers to the data to filter and analyse specific time periods Evaluate patterns in dispensary workload distribution using Power BI functionalities |
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| Part Seven: Creating a table in Data Analysis Expressions (DAX) for core data modelling in Power BI | Explain what Data Analysis Expressions (DAX) is, and how it compares to Excel formulas Construct a date table in Power BI using DAX expressions Explain how DAX can be used to manage time-based calculations in data Generate date relationships in the data set |
| Part Eight: Creating a table in Power Query Editor (PQE) for core data modelling in Power BI | Explain what Power Query Editor (PQE) is, and how it compares to DAX Create a date table using Power Query Editor (PQE) Compare DAX and PQE methods for date table creation Implement data model relationships using the created date table |
| Part Nine: Flexible data analysis in Excel | Explain how variable cells can be used to enable user-driven searching of patterns Create variable cells for dynamic data filtering Create interactive dashboards using Excel's native features Create dynamic named ranges to enable data filtering and visualisation |
| Part Ten: Flexible data analysis in Power Bl | Explain how parameters can be used to enable user-driven searching of patterns Create parameters using DAX in Power BI to implement dynamic data filtering Create measures that respond to user-driven selections Design interactive visualisations with parameter-driven filtering |
| Part Eleven: Improving flexible analysis and visuals | Develop parameters in Power Query Editor (PQE) Compare DAX and PQE approaches to parameter creation Implement dynamic data filtering using PQE parameters |