

INFS5700

Introduction to Business Analytics

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Week 4 Tutorial Activity

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(12/2022)

Agenda

- Discuss how Power BI fit into the ecosystem of data analytics
- Demonstration of Power BI
 - Power BI Desktop set up and interface exploration
- Loading and transforming data in Power BI
 - Explore Power Query Editor & DAX

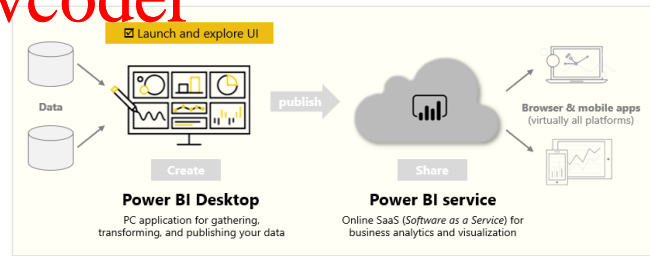
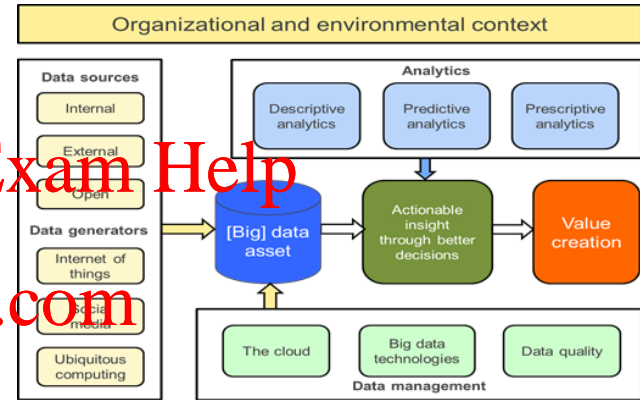
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How does Power BI fit into the ecosystem of business analytics?

- What experience do you have with other analytics tools apart from SAS?
- What is the common flow of activity in Power BI?
- What are the building blocks of Power BI?



Demonstration of Assignment Project Exam Help Power BI

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Power BI interface demonstration

- Install and set up Power BI Desktop

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- Explore the Power BI desktop interface
(Examine the ribbon, menus, views and panes)

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- Any questions from lecture demonstration?

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Loading and Transforming Data in Power BI

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Business Scenario

You are a data analyst at the ABC company. You have been told by the business manager that the product VTT will be discontinued due to poor sales performance. The business manager is interested in understanding current sales performance of their products across different regions and any interesting insights from the sales data that may help with their marketing strategy (e.g., expanding market globally).

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Task 1: Data Cleaning and Transformation

Load the financial dataset into Power BI Desktop. Do you notice any issue with the data? What transformations would you do? Any new measures can be calculated?

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Power BI Error Management

Changing manufacturing cost to a decimal number has shown errors.

How would you deal with these errors?

What if there were errors or missing values in Units sold?

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Task 2: Building the Foundation for A Report - DAX

- Create a measure for total units sold.
- Create a date table.
- Create a relationship between the date table and financial table.

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Load and Save Data Into Power BI Report

- You will now load your transformed data into your report, ready to be analysed and visualized. Check that the dataset has now populated the Fields pane, Data view and Model view.
- Save your Power BI report as a .pbix file. We will be using this file for next week's tutorial.

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Optional: Loading Additional Data

To get a better understanding of the countries and markets the ABC company is operating in, you have found some population data on Wikipedia that could be useful for your analysis.

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Using the data from: <https://powcoder.com>
https://en.wikipedia.org/wiki/List_of_countries_and_dependencies_by_population create a new column in your data with the population for the countries ABC Company operates in.

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