

Part I: Introduction

<Descriptor>





Introductions

• Take 5 Minutes

Turn to a Person Near You

Introduce Yourself

Business Cards

Course Outline

Overview

- What is Power BI
- Power BI Components
- Data Flow

Connecting to Data Sources

- Power BI Service Navigation
- Options to Connect to Sources
- Creating a Data Connection

Reports and Dashboards

- Dashboard Components
- Options to Share Reports and Dashboards

Creating a Report

- Power BI Desktop Navigation
- Creating a Simple Report Using Power BI Application
- Examples of Using Custom Visuals

Data Import Options

- Connecting to ODATA and Oracle Server and Extracting Data
- DirectQuery vs. Import

Data Transformation

- Data Transformation Components
- Data Modeling

Data Transformation - Advanced

- Creating your own M script for your next advanced report
- M Script Examples

Session Goal and Objectives

Course Goal: To provide an overview of Power BI functionality in conjunction with Clarity data.

Course Objectives: You will learn how to:

- Understand How Power BI Works with Clarity Data
- Connect to Data Sources
- Create Reports and Dashboard
- Create and Modify M Scripts

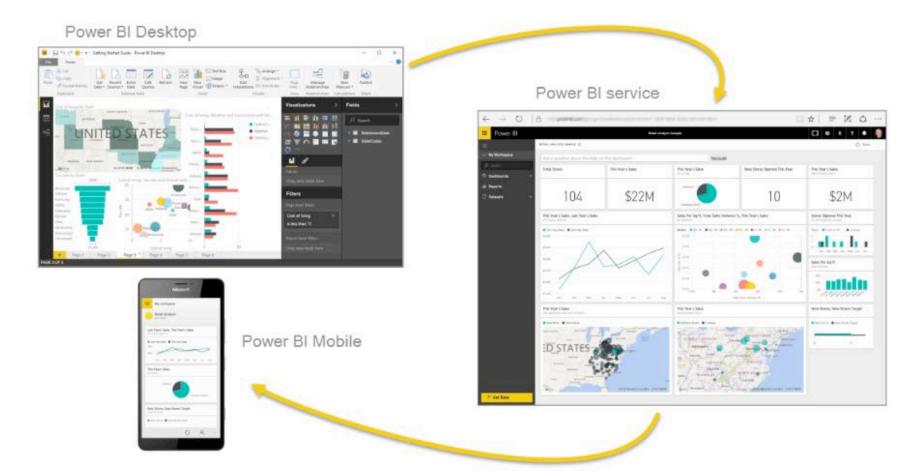
- What is Power BI
- Power BI Components
- Data Flow



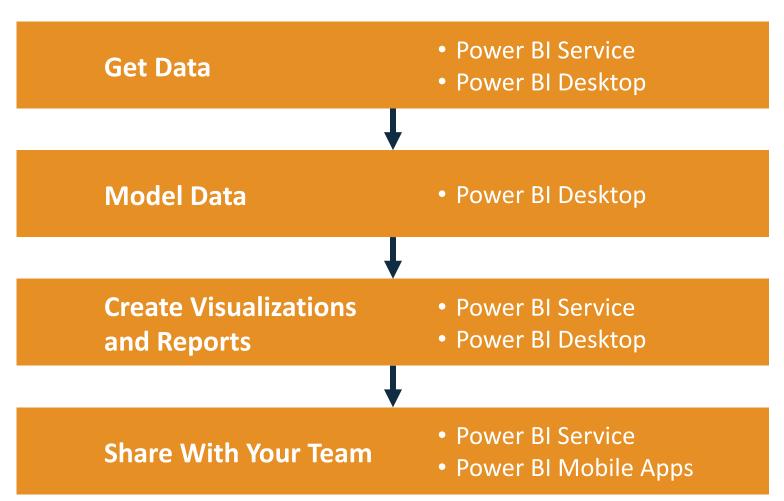
Power BI is a dashboard tool from Microsoft that lets you connect to variety of data sources and create visually stunning and interactive dashboards.



Power BI has 3 main components:



Development Approach

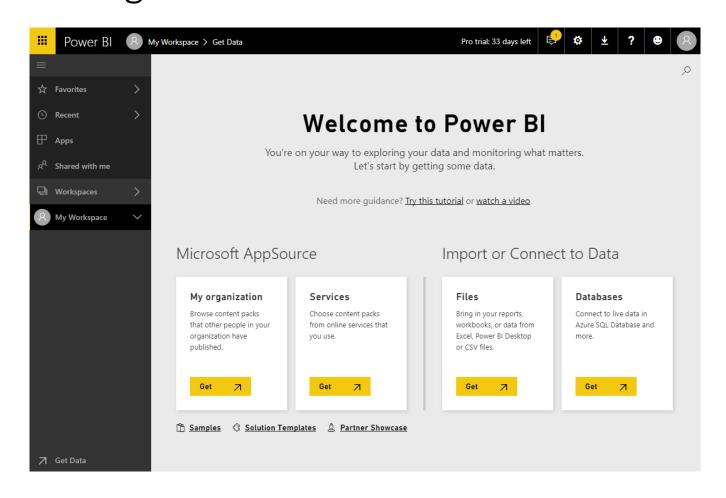


- Power BI Service Navigation
- Options to Connect to Sources
- Creating a Data Connection



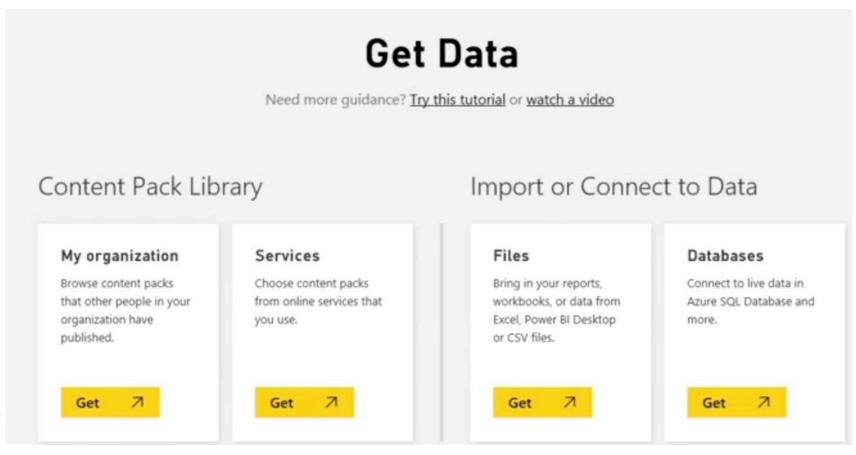


Power BI Service Navigation



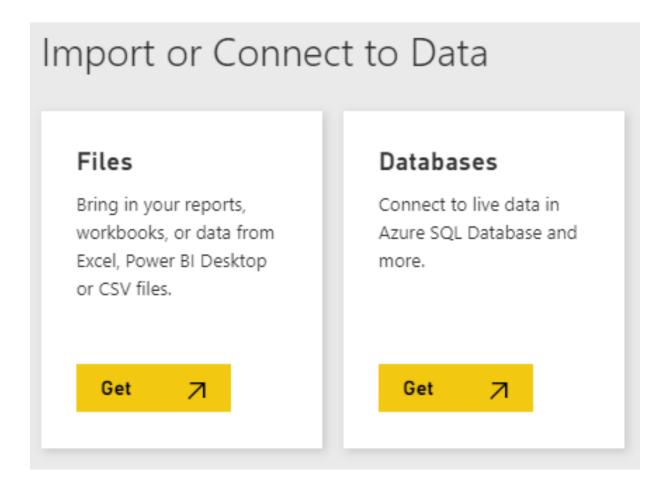
Options to Connect to Sources

- SaaS solutions
- Azure services
- Custom content packs
- Custom connections
- On-premise SAS data
- Excel workbooks
- CSV files
- Power BI Desktop files





Creating a Data Connection



- Dashboard Components
- Options to Share Reports and Dashboards



Dashboard Components

- Dashboard are high level view of some key KPI of one or more reports. Reports are pinned to a live page which then adds it to a new or existing Dashboard.
- An entire report can be published or individual visualizations from multiple reports.

Options to Share Reports and Dashboards

- Publish reports to the web
- Share dashboards
- Duplicate and modify shared dashboards (personal versions)
- Export to multiple formats
- Print
- QR code

Steps to Share

Publish to Web

Do not use this option as it will allow access to dashboard to public

Share

- Grant/Revoke access to colleagues in the organization
- It will warn you if you have entered an email address outside the organization

Create Workspaces (Pro only)

- Public or Private groups
- Edit or View only groups

Create Apps (Pro Only)

- Entire Organization
- Specific Individual or Groups

Creating a Report

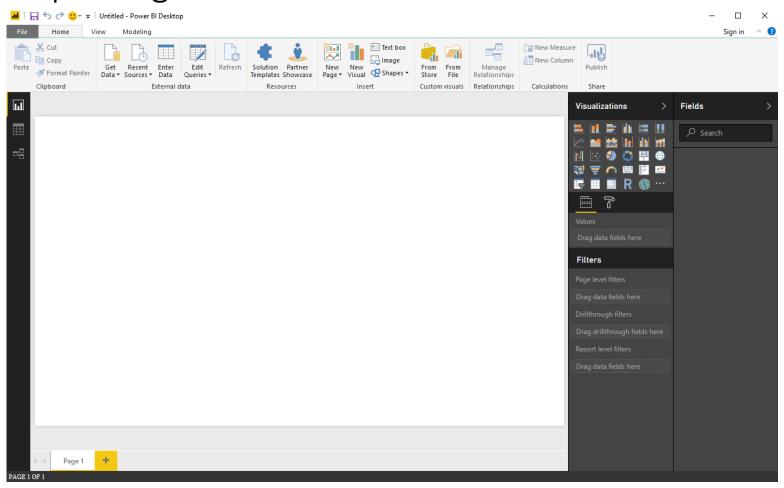
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- Creating a Simple Report Using Power BI Application
- Examples of Using Custom Visuals



Creating a Report

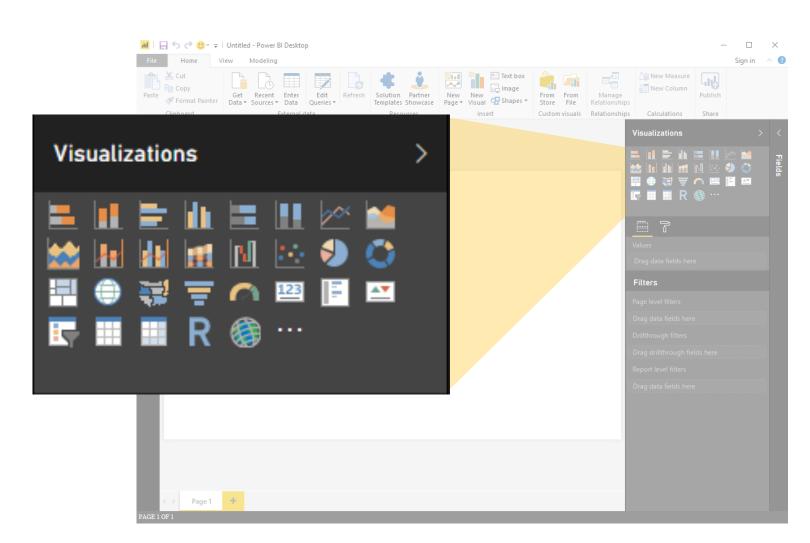


Power BI Desktop Navigation



Dashboard Components Chart Visualizations

- Bar chart
- Column chart
- Line chart
- Are chart
- Pie chart
- Combo chart
- Bubble chart
- Scatter chart
- Donut chart
- Gauge chart
- Funnel chart
- Waterfall chart



Creating a Report

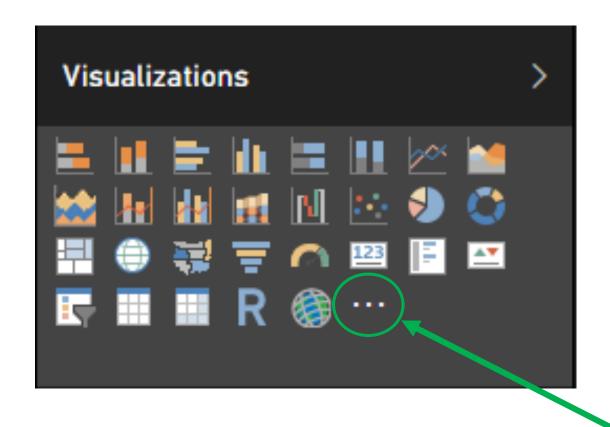




Visuals



Examples of Custom Visuals



Data Import Options

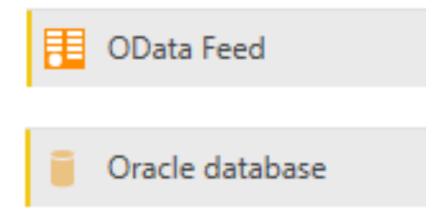
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- Connecting to ODATA and Oracle Server and Extracting Data



Data Import Options

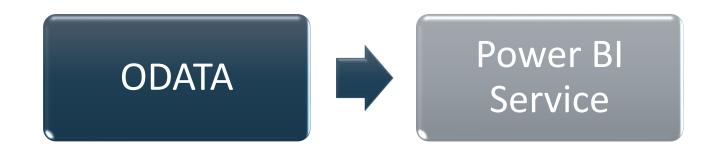


Connecting to ODATA and Oracle Server and Extracting Data



Data Refresh – On Premise vs On Demand Clarity





Data Import Options



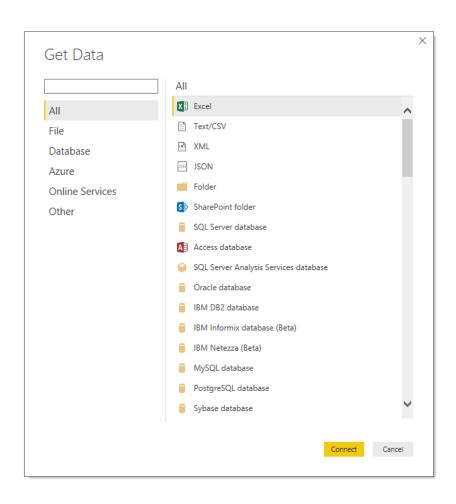
DirectQuery vs. Import [Oracle]

Data Connectivity mode (i)
 Import
 DirectQuery

Data Import Options



Connecting to a Source



Data Transformation

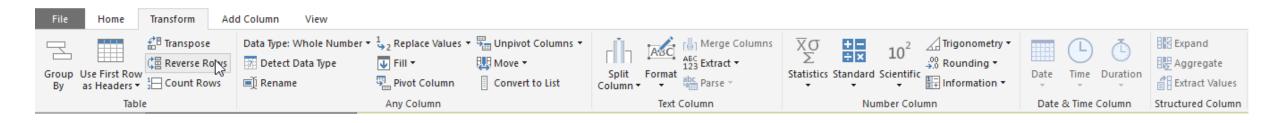
- Data Transformation Components
- Data Modeling



Data Transformation

Data Transformation Components

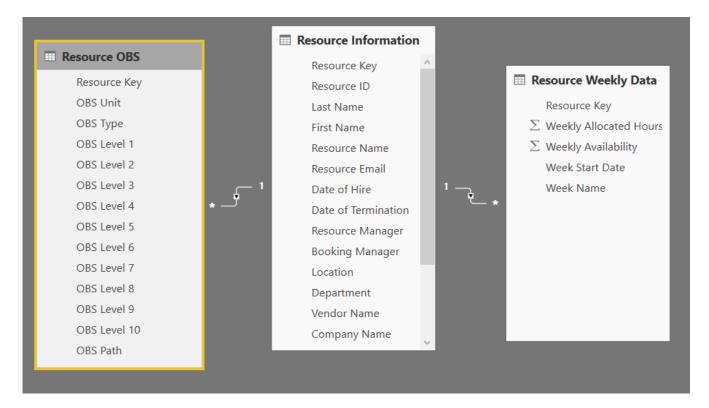
- Use first row as header
- Split the field or concatenate fields
- Replace values null with blanks
- Group data
- Pivot/unpivot columns
- Aggregate functions
- Format columns



Data Transformation

Data Modeling

- Import multiple tab from Excel or Create multiple queries
- Join the tables



Data Transformation - Advanced

- Creating your Own M Script
- M Script Examples



Data Transformation - Advanced



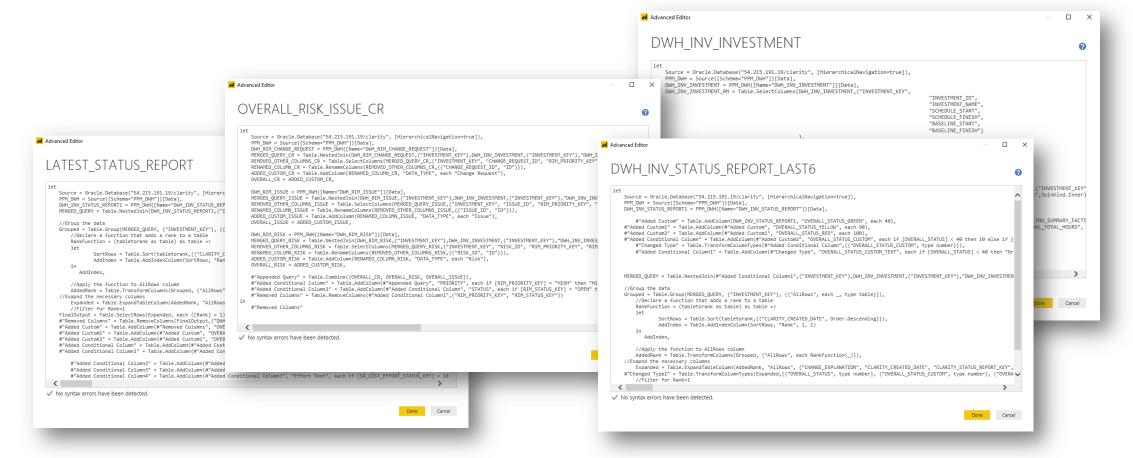
Creating your own M script for your next advanced report



Data Transformation - Advanced



M Script Examples

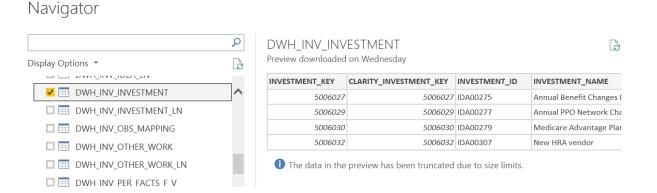


Create a Dashboard by connecting to Odata Feed

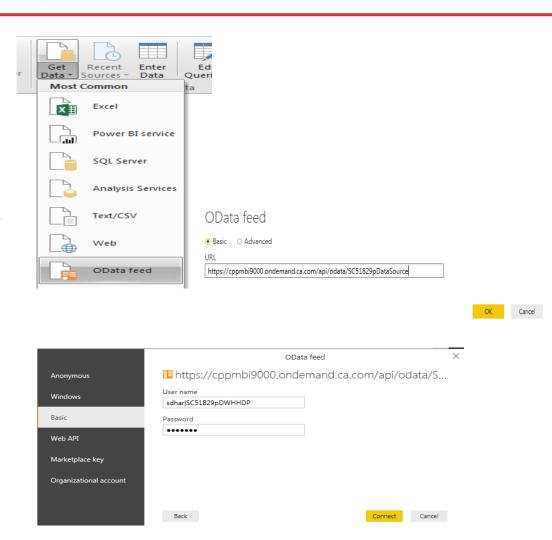


Here are the steps to create a dashboard:

- Open your Power BI Desktop instance
- Select OData feed option under GetData
- Enter the Odata URL provided by your admin and click on OK
- Enter the username & password and click on Connect to authenticate
- Odata Table Navigator opens. Select the tables required for your dashboard and click on Load



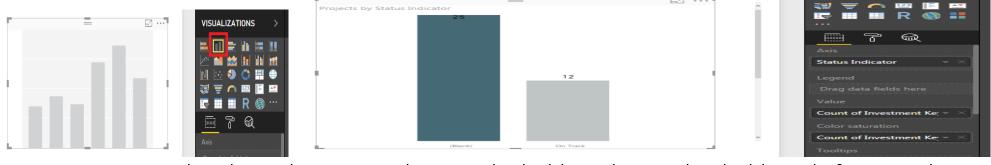
Selected Tables gets loaded and power BI canvas opens up.



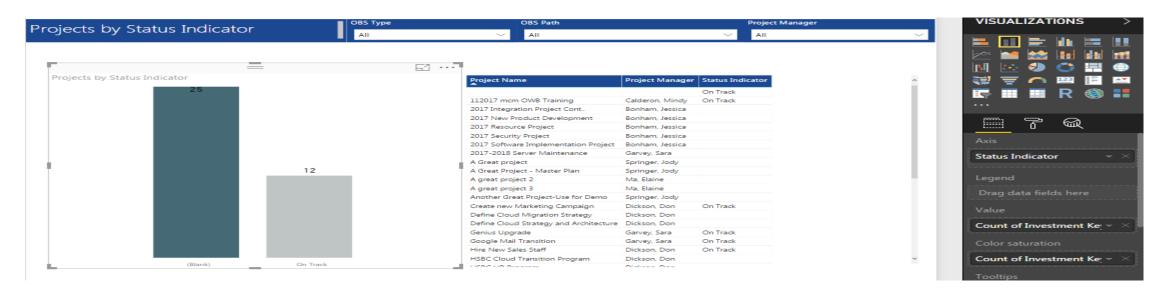
Create a Dashboard by connecting to Odata Feed



• Select the required visualization and drag the fields from the tables on to the settings to generate a meaningful visualization.



• You can group related visualizations under a single dashboard. Save the dashboard after completion.



Questions?





Thank You For Attending regoUniversity

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- Class Name = regoUniversity
- Course **Description**
- Date Started = Today's Date
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- Training classes = Technical
- Click on I agree and Submit



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