* [Data Analyst Roadmap 2024.pdf](https://drive.google.com/file/d/1lN7ClKZa4ds0ieQWrirm2njQqiEfbX3G/view)
* <https://codebasics.io/courses/power-bi-data-analysis-with-end-to-end-project>
* <https://learn.microsoft.com/en-us/training/courses/pl-300t00#course-syllabus>
* <https://www.geeksforgeeks.org/power-bi-tutorial/>
* <https://www.tutorialspoint.com/power_bi/power_bi_quick_guide.htm>

<https://learn.microsoft.com/en-us/power-query/power-query-what-is-power-query>

<https://learn.microsoft.com/en-us/power-bi/fundamentals/power-bi-overview>

* **12-week curriculum with a more detailed description on a day-by-day basis:**
* ### Week 1-2: Introduction to Power BI
* - \*\*Day 1\*\*: Introduction to Power BI - Understanding the Power BI ecosystem, key features, and benefits.
* - \*\*Day 2-3\*\*: Installing Power BI Desktop - Step-by-step guide to installing Power BI Desktop on Windows.
* - \*\*Day 4-5\*\*: Navigating the Interface - Exploring the Power BI Desktop interface, including the ribbon, report view, data view, and model view.
* - \*\*Day 6-7\*\*: Connecting to Data Sources - Connecting Power BI to various data sources such as Excel, CSV files, SQL databases, and web sources.
* ### Week 3-4: Data Loading and Transformation
* - \*\*Day 8\*\*: Importing Data - Importing data into Power BI Desktop from different sources and understanding data load options.
* - \*\*Day 9-10\*\*: Basic Data Cleaning - Introduction to basic data cleaning techniques in Power Query Editor, including removing duplicates, renaming columns, and changing data types.
* - \*\*Day 11-12\*\*: Advanced Data Cleaning - Exploring advanced data cleaning techniques such as conditional filtering, splitting columns, and applying transformations across multiple queries.
* - \*\*Day 13-14\*\*: Merging Queries - Understanding different types of joins and merging queries to combine data from multiple sources.
* ### Week 5-6: Data Modeling
* - \*\*Day 15\*\*: Introduction to Data Modeling - Understanding the importance of data modeling and the role of relationships between tables.
* - \*\*Day 16-17\*\*: Creating Relationships - Creating and managing relationships between tables in Power BI Desktop.
* - \*\*Day 18-19\*\*: Introduction to DAX - Understanding the basics of DAX (Data Analysis Expressions) and its role in data modeling.
* - \*\*Day 20-21\*\*: Creating Basic Measures - Writing basic DAX expressions to create measures for analysis.
* ### Week 7-8: Visualization Basics
* - \*\*Day 22\*\*: Introduction to Visualizations - Overview of different types of visualizations available in Power BI.
* - \*\*Day 23-24\*\*: Creating Basic Visualizations - Building basic visualizations such as bar charts, line charts, and pie charts.
* - \*\*Day 25-26\*\*: Customizing Visualizations - Customizing visualizations with formatting options, colors, titles, and data labels.
* - \*\*Day 27-28\*\*: Building Simple Dashboards - Combining visualizations to create simple dashboards and reports for data analysis.
* ### Week 9-10: Advanced Data Transformations and Modeling
* - \*\*Day 29\*\*: Advanced Data Cleaning Techniques - Exploring advanced data cleaning techniques such as conditional columns, custom functions, and error handling.
* - \*\*Day 30-31\*\*: Combining Data from Multiple Sources - Merging and appending data from different sources using Power Query Editor.
* - \*\*Day 32-33\*\*: Working with Complex Relationships - Managing many-to-many relationships and handling relationship ambiguity.
* - \*\*Day 34-35\*\*: Advanced DAX Calculations - Writing complex DAX calculations for advanced analysis and modeling.
* ### Week 11-12: Advanced Visualizations and Analytics
* - \*\*Day 36\*\*: Creating Interactive Visuals - Building interactive visualizations such as slicers, filters, and drill-down charts.
* - \*\*Day 37-38\*\*: Utilizing Custom Visuals - Exploring custom visuals available in the Power BI marketplace and integrating them into reports.
* - \*\*Day 39-40\*\*: Advanced Analytics with DAX - Applying time intelligence functions, statistical functions, and advanced calculations using DAX.
* - \*\*Day 41-42\*\*: Capstone Project Preparation - Reviewing project requirements, selecting datasets, and planning project implementation.
* ### Capstone Project:
* - \*\*Week 13-14\*\*: Implementing Capstone Project - Designing and implementing a Power BI solution for the provided dataset, incorporating concepts learned throughout the course.
* - \*\*Week 15\*\*: Presentation and Review - Presenting findings and insights from the capstone project in a professional manner and receiving feedback from peers and instructors.
* ### Additional Resources and Practice:
* - Weekly practice exercises and datasets for hands-on learning.
* - Recommended readings, tutorials, and online resources for further exploration.
* - Participation in community forums and user groups for networking and knowledge sharing.
* This detailed breakdown provides a structured and comprehensive approach to learning Power BI, allowing participants to focus on specific topics each day and gradually build their skills over the 12-week period. Each week concludes with practice exercises and assignments to reinforce learning, culminating in a capstone project to apply the knowledge and skills acquired throughout the course.