

Roadmap for Data Analysis with Power BI

Embark on a journey of data exploration and business intelligence with this comprehensive roadmap for Power BI. Discover the essential steps to unlock the power of your data and drive impactful decisions.



🗯 Made with Gamma

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Getting Started

Installation

Download and install Power BI Desktop, the free analytical tool from Microsoft.

Overview

Familiarize yourself with the Power BI user interface and its core capabilities.

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Data Inputs

Connect Power BI to a variety of data sources, like Excel and CSVs Files

2



Introduction to Business Intelligence

Data-Driven Decisions

Leverage Power BI to transform data into actionable insights, empowering data-driven decision making.

Competitive Advantage

Gain a competitive edge by uncovering hidden trends and patterns in your data.

Operational Efficiency

Optimize business processes and workflows by identifying areas for improvement.





Data Preparation

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Data Cleaning

Eliminate errors, inconsistencies, and missing values in your data.

Data Transformation

Reshape and format your data to align with your analysis requirements.

Data Modeling

Define relationships between your data sources to enable sophisticated analysis.



Power Query Basics

Data Transformations

Leverage Power Query's extensive set of data transformation tools to clean and prepare your data.



Data Modeling & Schema Types



Flat Data Model

Simplify your data model by flattening hierarchies and relationships, suitable for basic analysis.

Star Schema

Organize your data into a central fact table and surrounding dimension tables for optimal performance.

Snowflake Schema

Extend the star schema by normalizing dimensions, creating a more complex but flexible data model.



Core Analytics

Statistics Fundamentals

Understand key statistical concepts, such as measures of central tendency and variability, to interpret your data accurately.

Introduction to DAX

Dive into the DAX formula language, mastering calculated columns, tables, and time-based intelligence.

Data Visualization

Create compelling visualizations, from basic charts to advanced KPIs and decomposition trees, to tell a compelling data story.



Data Visualization

- Creating Charts (Bar, Line, Pie, etc.)
- Advanced Visuals (KPIs, Tree Decomposition, Key Influencers)
- Formatting & Filters
- Bookmarks
- Buttons



Reporting & Publishing

- Building Reports
- Case Studies & Real-World Applications
- Publishing Dashboards



