

# Data Analyst Roadmap

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This is a simple and very overviewing roadmap of essential skills to learn for becoming a data analyst.

## Tip

- When you're learning these tools, if you come up with an idea that you'd like to do, feel free to divert from the roadmap and try working on your idea first.
- Don't spend too much time on one topic. Getting the bigger picture is more important.
- If you want to learn another skill which is not on this list, feel free to do so. Research about the skill to see if they are in demand, and plan your time and effort accordingly.

## SQL & Excel

Interact with data sources



## Power BI & Statistics

Transform and visualise data



## Python & ML/AI

Program & automate process



O365-AU-PowerPlatform  
SQL basic functions

<https://www.mysqltutorial.org/>

O365-AU-PowerPlatform  
Interview questions for SQL

<https://www.hackerrank.com/domains/sqlhttps://dev.mysql.com/doc/index-other.html>

O365-AU-PowerPlatform  
Use Case SQL Project x 1

<https://dev.mysql.com/doc/index-other.html>

O365-AU-PowerPlatform  
Excel data transformation and cleaning

<https://blog.spreadsheetlife.com/>

O365-AU-PowerPlatform  
Excel aggregation functions & pivot table

<https://www.wiseowl.co.uk/excel/exercises/standard/pivot-tables/>

O365-AU-PowerPlatform  
Interview questions for Excel

<https://www.wiseowl.co.uk/excel/exercises/standard/>

O365-AU-PowerPlatform  
Use Power Query to load and transform data

<https://exceloffthegrid.com/power-query-introduction/>

O365-AU-PowerPlatform  
Create a data model to connect datasets

<https://www.phdata.io/blog/data-modeling-fundamentals-in-power-bi/>

O365-AU-PowerPlatform  
Create charts and write reusable DAX calculations

<https://learn.microsoft.com/en-us/training/paths/model-data-power-bi/>

O365-AU-PowerPlatform  
Use Case Power BI Project x 2

<https://www.projectpro.io/article/power-bi-microsoft-projects-examples-and-ideas-for-practice/533>

O365-AU-PowerPlatform  
Statistics used for Business Analytics

<https://www.youtube.com/watch?v=tXkHekzaE4o>

O365-AU-PowerPlatform  
Interview questions for Statistics

<https://www.analyticsvidhya.com/blog/2022/08/top-40-data-science-statistics-interview-questions/>

## Python & ML/AI

Program & automate process



O365-AU-PowerPlatform  
Python for data analysis

<https://learn.microsoft.com/en-us/training/modules/explore-analyze-data-with-python/>

O365-AU-PowerPlatform  
Use Case Python Project x 1

<https://builtin.com/data-science/data-science-projects>