

Course 5: Analyze data

Week 1

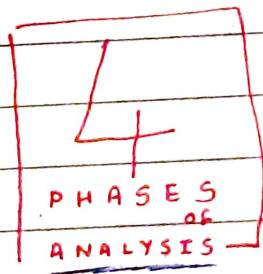
Analysis:

The process used to make sense of the data.

↗
Cool!

The goal of Analysis:

It is to identify trends & relationships within data so you can accurately answer the question you're asking.



- ① Organize
- ② Format & Adjust
- ③ Get input from others
- ④ Transform Data

Observe relationships - calculating

RLE: Real Life Example

- There is a birthday of your friend.
~~Now~~ You are not sure what they like as a gift.

(Using DS here?)

- You have his website which talks about his behavior, likes, photos, places and choices.
- But instead doing a brute force like reading about him ^{hor} everything... you directly go to the gift site keeping his likes, budget in your mind.
- That gift list is like a dataset.
 - (1) That is organized
- That is formatted for you for easy reference.
 - (2) Format & Adjust
- But you adjust data (Sort & Filter)
 - (2) Format & Adjust

- You also check that if the gift has been bought by someone already.

(3) Get input from others.

"When analyzing data, gaining input from others is important because it gives a viewpoint that ~~the~~ you might not understand".

- You get to know if there are any obstacles or challenges.

The people don't need to be experts.

- Now you found a gift that she/^{he} ~~she~~ would like & fits budget & no one has bought.

(4) Transform

↑
By finding relationships between these data points

- You chose
- Purchase

Transform: Identifying relationships & patterns between data and making calculations based on data you find.

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' It is super important that you keep your data organized throughout analysis '

' Once you know how your data is organized - you will be able to capture or collect data that you need '

→ Tables help you organize similar kind of data into categories and subject areas that you can focus on as you analyze.

- “(Always be Prepared to adjust, no matter how far into your analysis you are ”)
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Sorting & Filtering

use your
Friends Data!

Sorting:

Sorting:

Sorting is when you rearrange data into a meaningful order to make it easier to understand, analyze and visualize.

It ranks your data based on a specific metric you choose.

Filtering:

It is used when you are only interested in seeing data that meets a specific criteria, and hiding the rest.

It gives you the ability to find what you are looking for without much effort.

Sorting Pivot Table is possible.

"Organization - Not only about to keep things look orderly - but also making it easy to locate data you need in quick & easy way"

"When you sort by some specific metric, you uncovers new patterns and relationships you might not have noticed otherwise"

"Sorting relies on your creativity to reimagine the information you have"

Sort Range: Single Column

Sort Sheet: Each row (Bind)