Recap from last week

- Data warehouse (OLAP vs OLTP)
- Difference between DB vs DW
- SQL (relational database)
  - https://www.w3resource.com/sql-exercises/
- BIDM cycle
- Structured vs Unstructured Data
- ETL, Data Pipeline
- Data Engineers vs Data Scientists
- Basic Python syntax
- Make sure you can run Jupyter
- Finished chapter 1, 2, 3, and 17

SQL Query => Simple Aggregation (mean) => Simple Statistics (standard deviation) => Hypothesis Testing => Data Mining => Artificial Intelligence

A New Journey

Now we know something about Data, what's next?

Remember the Goal of Data Analytics is to find patterns

But how?

Remember in the video of Expectation vs Reality on Correlation vs Causation

Let's being our journey

Data Analytics Research Process

Define your question or problem you want to solve

=> Make Observations, Collect Data

$\Rightarrow$ Identify possible important factors (Features, Attributes)

$\Rightarrow$ Test whether the factors are important or not

$\Rightarrow$ Continue to find important factors

$\Rightarrow$ Until you feel you think you got it!