Course 4

Drewiew

1. Data integrity

2. Clean Data for more accurate insights

3. Data cleaning with SQL

4. Verify/report cleaning results

Module 1

Data Integrity: Consistency, accuracy, completeness

- Data replication: Chance of missing sync

- Data transformation: it interupted, lack of completeness

- Data munipulation: Error during munipulation can compromise the efficiency.

* With incomplete duty, it's hard to see the big Picture

-X Always Align Buisnes objectives and data

Deal with insufficient data: One source do not show the 'trend'

. Dutu that keeps apolating

. Dutdated data

. Dutdated data

Case.

- 1. No data: Drow small scale to portorm preliminary analysis.
 Then, complete the analysis when you have enough data.
- 2. Little Lata: Do the analysis using proxy duta along with actual data.
- 3. Wrong data: Identify errors. try correct them, if not ignore them

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The importance of Sample size: Cost effective
      - Possibly got some results as using entire size
Sampling bias: Sample isn't representative of duta
Rundom sampling: Selecting every possible type of the sample
· Sample must not be less thrn 30
Larger sample for, higher confidence level
                         , to decrease the margin of error
                        , greater statistical significance.
Module 2:
   Dirty Data: Duplicate, incorrect, incomplete, inconsistent
    inaccurate data can be costly
   Issues: Spelling, Dupkarter, Blank

Misspell Urer Input

null
   Data cleaning is essential for decision making.
   excel:
       Vlookup
       split
        left
       mid
        count if
      - pivot table: Summarize table for presentation.
   Checklist for data cleaning:
      Determine size of the dutaset
       - Determine the # of categories or labels
       - Identify missing duta
       - Identify unformatted data
       - Explore the different duta types
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