



# SNS COLLEGE OF TECHNOLOGY

Coimbatore - 35



## 23BAE734 – Visual Analytic and Storytelling

### Unit II – Tools and Techniques



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Redesigning Common Mind & Business Towards Excellence



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# Guess the Topic!!!

Data Processing





# Recap

- Reason to Study Excel
- What is Excel?
- Basics of Excel
- Basic Formulas in Excel
- Data Model and Groups in Excel
- Common Use case in Excel
- Advantages & Disadvantages





# Discussion about....

- Reason to Study Data Preparation
- Key Data Preparation Steps
- Data Preparation Stages
- Data Preparation Process
- Data Preparation Challenges
- Advantages and Disadvantages





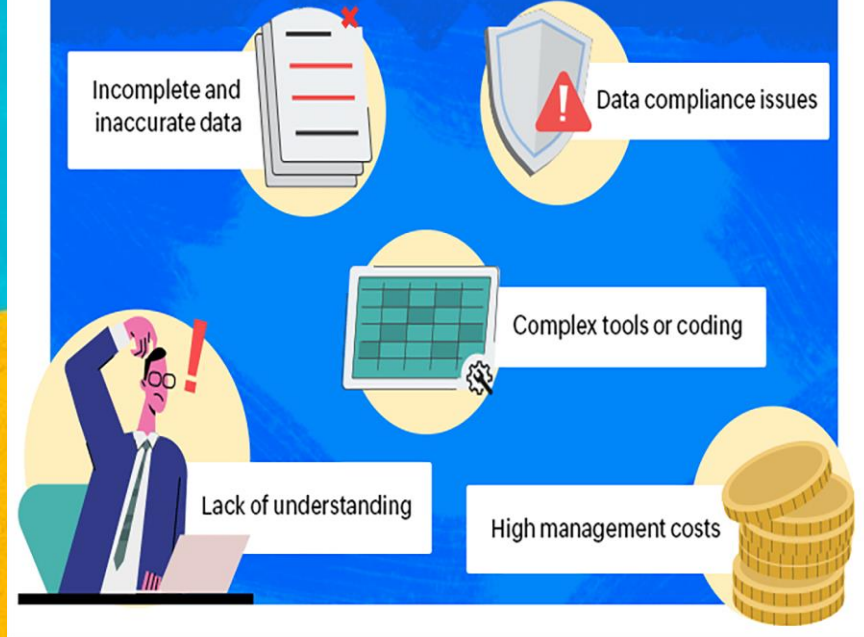
# Reason to study Data Preparation



## Roadmap for Data Preparation



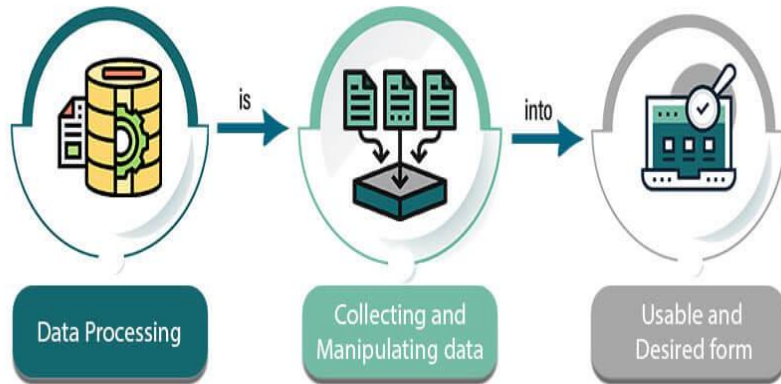
## Why data preparation?





# Key Data Preparation Steps

## What is Data Processing?



## Key data preparation steps

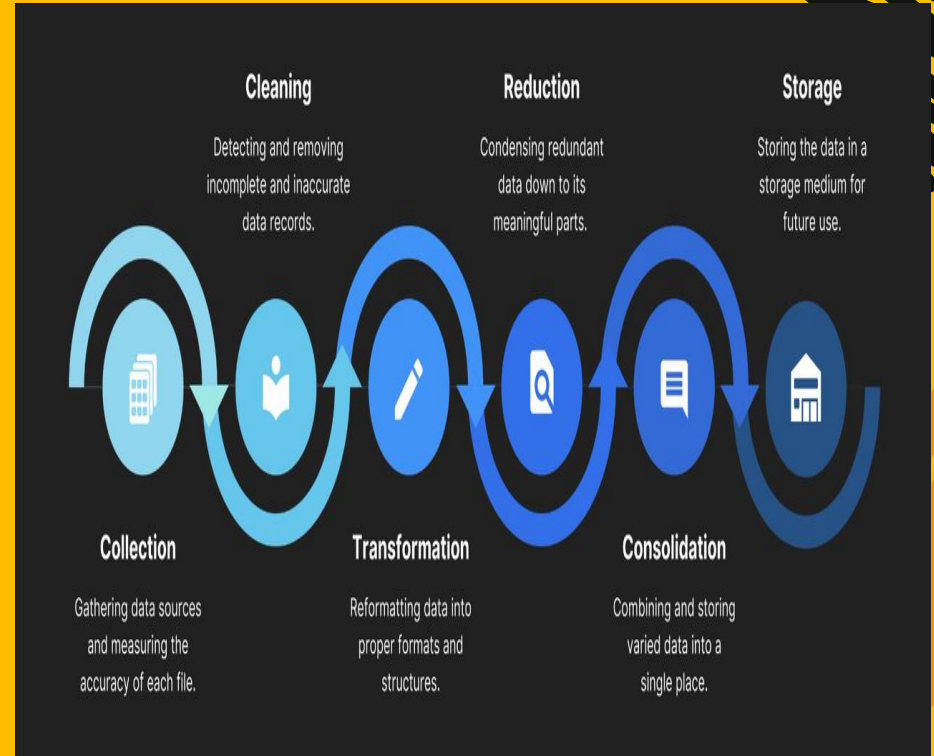




# Data Preparation Steps

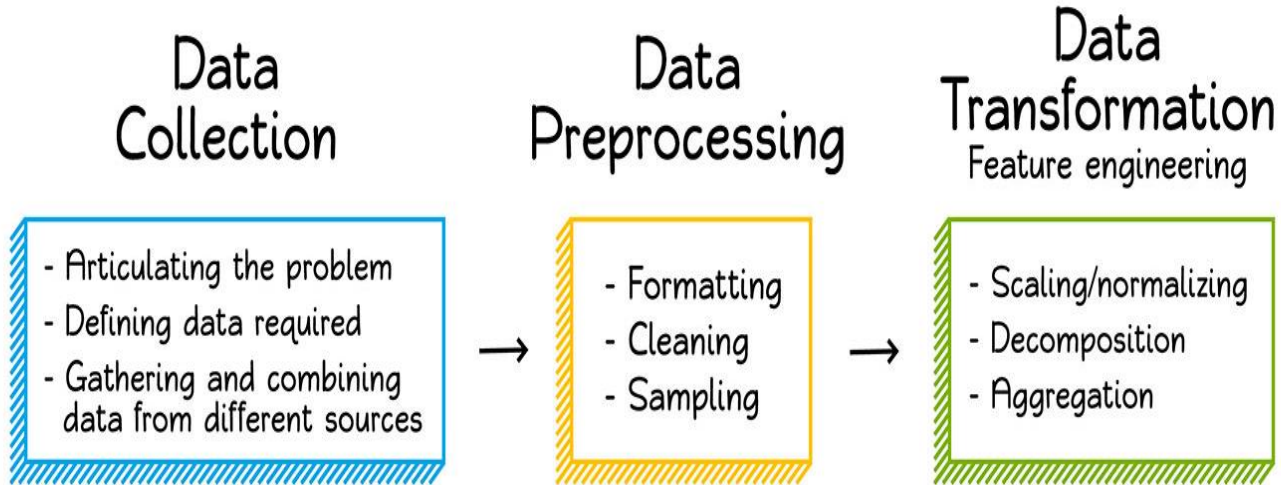


## Data Preparation Steps





# Data Preparation Process







## Top challenges on data preparation



- Inadequate or nonexistent data profiling
- Missing or incomplete data
  - Invalid data values
  - Name and address standardization
  - Inconsistent data across enterprise systems
  - Data enrichment
- Maintaining and expanding data prep processes



## Advantages of Data Processing

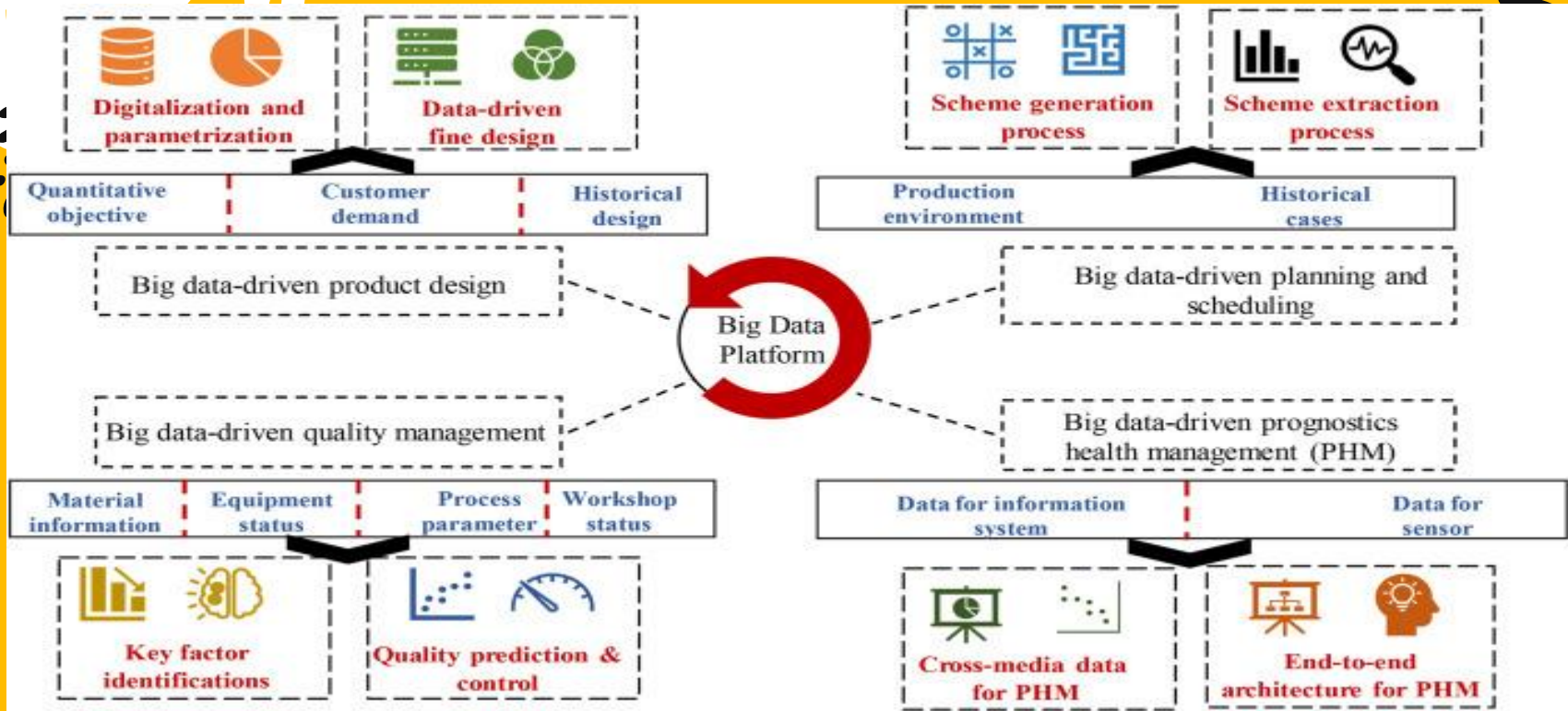
- 1) Removing unwanted portion of collected data
- 2) Controlling on huge size of data
- 3) Getting multiple information from same data
- 4) Getting Authenticate and true data
- 5) Keeping output safe
- 6) Improving data productivity

## Disadvantages of Data Processing :

- Large power consumption
- Occupies large memory
- The cost of installation is high
- Wastage of memory



# Data Processing Application





# Knowledge Check

Which of the following is the correct order of the Data Processing Cycle?

- X A) Data Collection → Data Analysis → Data Storage → Data Output
- B) Data Collection → Data Storage → Data Processing → Data Output
- C) Data Processing → Data Collection → Data Output → Data Storage
- D) Data Analysis → Data Output → Data Collection → Data Storage

X **Answer:**

**B) Data Collection → Data Storage → Data Processing → Data Output**





# Summary

- Reason to Study Data Preparation
- Key Data Preparation Steps
- Data Preparation Stages
- Data Preparation Process
- Data Preparation Challenges
- Advantages and Disadvantages





# References

➤ <https://www.talend.com/resources/what-is-data-processing/>





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# Thanks!

