



# SOOAD

## UNIT 2

### THE PROCESS MODELLING

# UNIT -2 Process Modelling

- Introduction
- Data Flow Diagram
  - Reading Data Flow Diagrams
  - Elements of Data Flow Diagrams
  - Process Description
- Creating Data Flow Diagrams
  - Context Diagram
  - Data Flow Diagram Fragments
  - Level 0 Diagram
  - Level 1 Diagram
  - Validating the Data Flow Diagrams
- Data Dictionary

# Data Dictionary Contains

- Data Dictionary contains following fields:
  - Name of table:
  - Name of field
  - Data type
  - Length
  - Constraints
  - Description

# DD – Data Dictionary

- A data dictionary is also known as **data repository**.
- It is a **central storehouse of information about the system's data**.
- An analyst uses the data dictionary to collect, document and organize specific facts about the system, including the contents of data flows, data stores, entities and processes.
- It defines and describes all data elements and meaningful combinations of data elements.
- **A data element, is also called data item or field.**
- It is smallest piece of data that has meaning within an IS(Info. System)
- e.g inventory of auto parts includes – part no., description, supplier code, min. And maxi. Stock levels , cost and price. Information.

# Example 1 of Data Dictionary: Order Management System

## 6. Table Name: CUSTOMER

This table contains information about customer

Fields	Data Type	Size	Keys	Description
<b>Customer_id</b>	Number	5	Primary Key	Store into customer id
<b>Name</b>	Varchar2	25	Not Null	Store into name
<b>Gender</b>	Bit		Not Null	Store into gender
<b>Email</b>	Varchar2	25	Not Null	Store into email
<b>Password</b>	Varchar2	6	Not Null	Store into password
<b>Mobile</b>	Number	10	Not Null	Store into mobile
<b>Address</b>	Varchar2	100	Not Null	Store into address

# Example 2 of Data Dictionary: Order Management System

## 7. Table Name: ORDER

This table contains information about order

Fields	Data Type	Size	Keys	Description
Order_id	Number	5	Primary Key	Store into order id
Date	Date		Not Null	Store into date
Customer_id	Number	5	Foreign Key	References customer table