



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
Customer_id	Number	5	Primary Key	Store into customer id
Name	Varchar2	25	Not Null	Store into name
Gender	Bit		Not Null	Store into gender
Email	Varchar2	25	Not Null	Store into email
Password	Varchar2	6	Not Null	Store into password
Mobile	Number	10	Not Null	Store into mobile
Address	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