RECAP

- Introduction

- History of Business Intelligence

- Evolution of BI

- The Role of BI in Modern Businesses

- BI's Impact on Business Strategy

- The Architecture of BI

- Knowledge Check

BI

Guess
the
TOPIC...??

Main Data Warehousing Topics

- DW definition
- Characteristics of DW
- Data Marts
- ODS, EDW, Metadata
- DW Framework
- DW Architecture & ETL Process
- DW Development
- DW Issues

What is a Data Warehouse?

- A physical repository where relational data are specially organized to provide enterprise-wide, cleansed data in a standardized format

- "The data warehouse is a collection of integrated, subject-oriented databases designed to support DSS functions, where each unit of data is non-volatile and relevant to some moment in time"

Characteristics of DW

- Subject oriented
- Integrated
- Time-variant (time series)
- Nonvolatile
- Summarized
- Not normalized
- Metadata
- Web based, relational/multi-dimensional
- Client/server
- Real-time and/or right-time (active)

Data Mart

A departmental data warehouse that stores only relevant data

- **Dependent data mart**

  A subset that is created directly from a data warehouse

- **Independent data mart**

  A small data warehouse designed for a strategic business unit or a department

Data Warehousing Definitions

- **Operational data stores (ODS)**

  A type of database often used as an interim area for a data warehouse

- **Oper marts**

  An operational data mart

- **Enterprise data warehouse (EDW)**

  A data warehouse for the enterprise

- **Metadata**

  Data about data. In a data warehouse, metadata describe the contents of a data warehouse and the manner of its acquisition and use
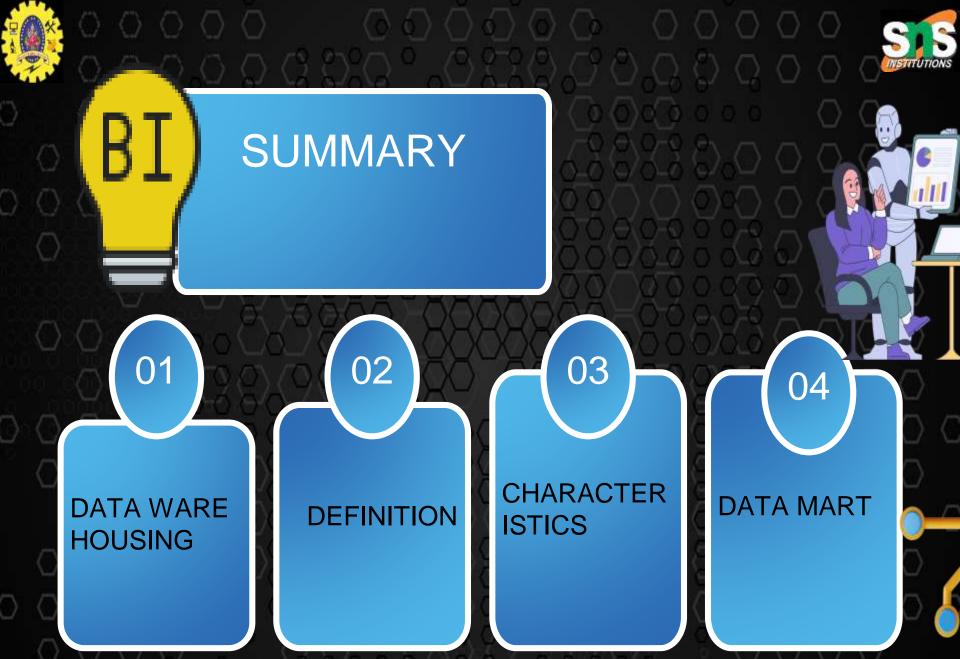
KNOWLEDGE CHECK

01 Discuss specific examples for DATA WAREHOUSING

02 Importatnt role of DATA MART in Data Warehouse in Business?

SUMMARY

01 DATA WARE HOUSING

02 DEFINITION

03 CHARACTERISTICS

04 DATA MART

Thank You!