

# Data Science & Artificial Intelligence

2024

warehousing

Full Syllabus Test

Discussion Notes



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#Q. In a data warehouse, what is a dimension table?

*Store descriptive attributes*

- A** A table storing transactional data — *fact table x*
- B** A table storing aggregate data — *fact table*
- C** A table storing descriptive attributes related to the data
- D** None of the above *y*

#Q. Which type of schema uses normalized tables?

**A**

Star Schema

— denormalized data

**B**

Snowflake Schema

✓

**C**

Fact Constellation Schema

can use both

**D**

None of the above

✗

#Q. Which process in ETL is responsible for transforming data into the required format?

- A** Extraction *✗ Return data*
- B** Transformation *✓*
- C** Loading *✗*
- D** None of the above *✗*

#Q. What is the main goal of data integration in a data warehouse?

*Combine data from various sources*

- A** To clean the data *X*
- B** To transform the data *X*
- C** To combine data from different sources
- D** To load the data

#Q. Which one of the following is an advantage of a data warehouse?

- A** Real-time data updates *✗*
- B** *Improve*  
Enhanced data analysis and decision-making
- C** Reduced data redundancy *— can be issue*
- D** Lower storage requirements

#Q. What is a key challenge in data cleaning?

- A** Data transformation ✗
- B** Data integration — ✗
- C** Identifying and correcting errors ✓
- D** Data loading

#Q. Which of the following is a popular data warehousing tool?

- A** MySQL — *OLTP*
- B** MongoDB — *NoSQL database*
- C** Oracle — *Comprehensive data Warehousing solution*
- D** PostgreSQL — *OLTP-oriented*



#Q. Which phase of data warehousing involves summarizing data for analysis?

- A** Data extraction ✗
- B** Data transformation — Modified ✗
- C** Data loading ✗
- D** Data aggregation → summarize data ✓



**THANK - YOU**