

# **Question Bank for Data Warehouse**

## **Unit1**

1. Explain role of data warehouse in Business intelligence.
2. What are the key benefits of using a data warehouse in an organization?
3. Describe the process of data integration in a data warehouse.
4. How does a data warehouse support decision-making processes?
5. Explain the architecture of data warehouse.
6. Differentiate OLTP and OLAP.
7. Write a short note on Data marts.
8. What are the challenges faced during data warehousing implementation?

## **UNIT 2**

1. Explain data modelling.
2. Compare star schema, snowflake schema, and fact constellation schema with a suitable example.
3. How does data normalization affect data warehouse design?
4. How do fact and dimension tables work together in a data warehouse? Explain with an example.
5. What is the role of metadata in a data warehouse?
6. . Discuss the challenges and strategies for handling Slowly Changing Dimensions (SCDs).
7. Explain the concept of data granularity in a data warehouse.
8. What are the best practices for designing a data warehouse?

## **UNIT 3**

1. Write and explain the stepwise ETL process.
2. List down the advantages and disadvantages of different data extraction techniques.
3. How does data transformation impact the quality of data in a data warehouse?
4. What are the common ETL tools used in data warehousing?
5. Discuss the role of data staging in the ETL process.
6. Explain different types of immediate data extraction technique.
7. How can data validation be ensured during the ETL process?