

# 3 Lecture - CS403

## Important Subjective

1. **What is database architecture?**

Answer: Database architecture refers to the overall structure and organization of a database system, including its design, layout, and components.

**What are the different types of database architecture?**

Answer: The different types of database architecture include client-server, peer-to-peer, and distributed architectures.

**What is a database schema?**

Answer: A database schema is a data structure that defines the logical organization of data within a database.

**What is a database management system (DBMS)?**

Answer: A database management system is software that allows users to store, retrieve, and manipulate data in a database.

**What is a database server?**

Answer: A database server is a computer system that stores and manages a database.

**What is a database instance?**

Answer: A database instance is a running copy of a database.

**What is a database trigger?**

Answer: A database trigger is a program that runs automatically in response to a specific database event.

**What is a database index?**

Answer: A database index is a data structure that improves the speed of data retrieval.

**What is a database transaction?**

Answer: A database transaction is a sequence of operations that are performed on a database as a single logical unit of work.

**What is the role of database architecture in database security?**

Answer: Database architecture plays a crucial role in database security by defining the security mechanisms that protect the database from unauthorized access, data breaches, and other security threats.