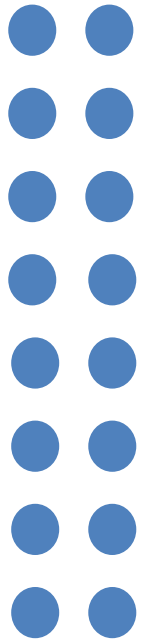
Intro to Databases

LESSON OBJECTIVES

- Define database and associated terminology.
- Identify types of databases, Access objectives and critical performance factors

Intro to Databases

- A database is an organized collection of data.
- Accessed electronically from a computer system.
- Examples of databases include MS Access, MySQL, DB2, PostgreSQL, MongoDB etc.

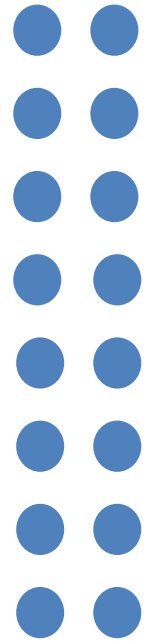


Types of Databases

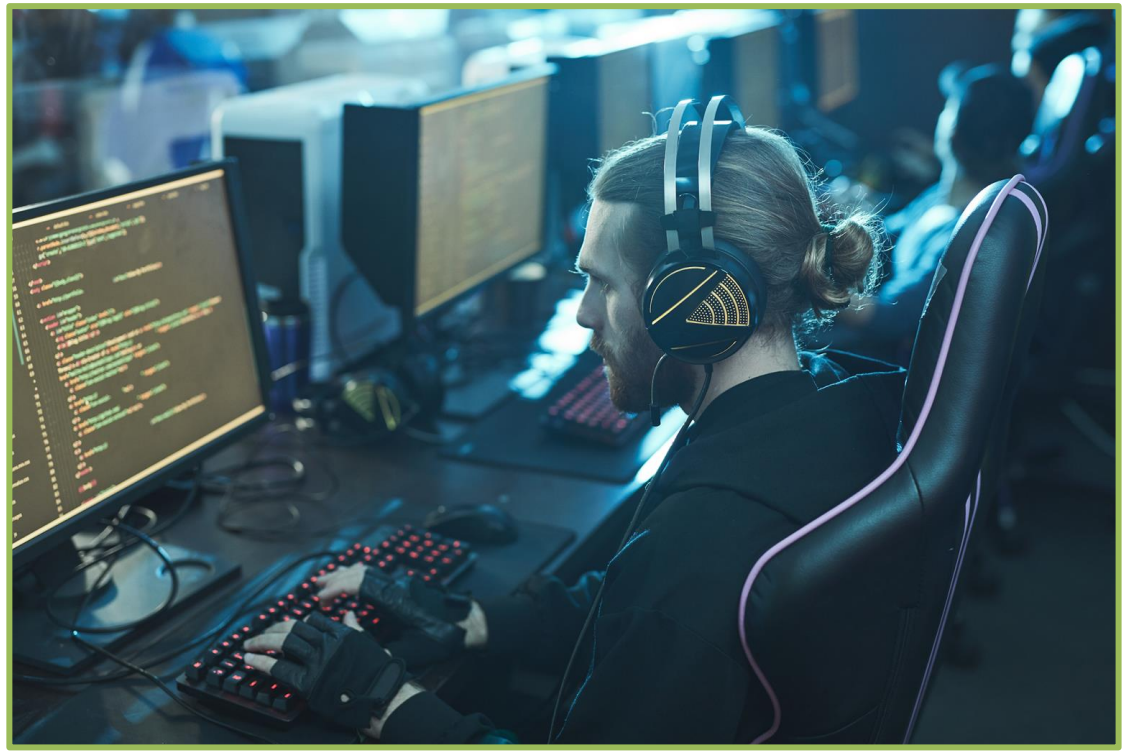
- Hierarchical Databases
- Network Databases
- Relational Databases

Database Access Objectives

- Maintain integrity
- Support standard SQL functions
- Allow for multi user access
- Be able to support different types of data
- Provide some type of crash recovery
- Be hardware and software portable etc



Critical Performance Factors



- Critical Performance factors are aspects that determine how quickly the database can supply information.
  - Size, Speed, Number of Users who can use databases, Show an acceptable worst case response time under peak period, Have acceptable recovery time in the event of outages.