BUAN 370 What we have covered so far (end of Week 3)

- Be able to define basic database terminology
- Understand the need, relevance, and importance of databases and why it is critical to learn DB concepts and why database design is an essential skill
- Describe what a database is and various types of databases
- Outline, list and explain the major fundamental components and concepts of a relational database system
  Describe the main functions of a database management system
- Understand the advantages of DBs, the different models, explain the general underpinnings of DB, be able to list and execute some RDBMS features
- Describe the main functions of a database management system and the layout of database IDE
- Recognize business rules and their impact on the design of a database.
- Review a business scenario and design queries to return answers
- Explain why Entity-Relationship Modeling is used to analyze and design the logical database model.
- Understand the E-R modeling approaches such as Chen and Crow's Foot.
- Recognize and model entities, attributes, and relationships.
- Know the difference between one-to-one, one-to-many, and many-to-many relationships.
- Explain why the one-to-many relationship is the relational ideal.
- Determine connectivity and cardinality and model them correctly in the logical database.
- Explain that poor design features can lead to insertion, deletion, and modification anomalies and how they degrade a database.
- Detect repeating groups and understand their deleterious effect on query execution.
- Explain and use query by example (QBE)
- Create tables in RDBMS MS Access
- Create Relationships
- Know the different datasheet, design, and SQL views
- Understand different types of queries
  - Create queries using Design view
  - Include fields in the design grid
  - Use text and numeric data in criteria
  - SELECT query
  - Use compound criteria in queries (AND/OR)
  - Use parameter query
  - Use calculated field query