**Week 3 Notes**

* Types of functional dependencies
  + **Partial dependency**: attribute is dependent on part of a primary key
  + **Transitive dependency**: attribute is dependent on a non-primary key
  + **Full Dependency**: attribute depends on all parts of the primary key
* Normal Forms
  + First normal form (1NF)
    - No multivalued attributes or every attribute value is atomic in nature
  + Second normal form (2NF)
    - 1NF + non-key attributes not partially dependent
  + Third normal form
    - 2NF + no transitive dependencies
  + Boyce-Codd Normal Form: BCNF
    - Be in 3NF + all functional dependencies must have antecedent as super key