CSC343 Worksheet 12 Solution

June 30, 2020

1. <u>**Notes:**</u>

   - Function Dependencies
     - *Functional Dependency* is a relationship between two attributes typically between the key and other non-key attributes within a table.

       <u>**Example:**</u>

       SIN $\rightarrow$ Name, Address, Birthdate

       <u>**Example 2:**</u>

       ISBN $\rightarrow$ Title

     <u>**References:**</u>

     1) OpenTextBC, Chapter 11 Functional Dependencies, link

   - Key of Relations
     - One or more attributes $\{A_1, A_2, ..., A_n\}$ is a key for a relation R if
       1. Those attributes functionally determine all other attributes of the relation
       2. No proper subset of $\{A_1, A_2, ...A_n\}$ functionally determines all other attributes of R
       3.