

# CSC343 Worksheet 13 Solution

July 4, 2020

1. a) Notes:

- Decomposition: The good bad and ugly
  - 1) **Elimination of Anomalies** by decomposition as in Section 3
  - 2) **Recoverability of Information** Can we recover the original relation from the tuples in its decomposition?
  - 3) **Preservation of Dependences (lossless join):** Can we be sure that after reconstructing the original relation from the decompositions, the original FD's satisfy?

**BCNF:**  $\rightarrow$  satisfies 1) and 2) **Not good. NONO**