

# COMP 4018 – Final Project

Entity Breakdown to achieve the ideal BCNF normalizations:

## 1. **tbl\_lists:**

- Attributes: list\_id (PK), list\_name, list\_description
- Functional Dependencies (FDs):
  - list\_id  $\rightarrow$  list\_name, list\_description
- Since the primary key **list\_id** determines both **list\_name** and **list\_description**, the relation is already in BCNF.

## 2. **tbl\_tasks:**

- Attributes: task\_id (PK), task\_name, task\_description, list\_id, priority, deadline
- Functional Dependencies (FDs):
  - task\_id  $\rightarrow$  task\_name, task\_description, list\_id, priority, deadline
- Since the primary key **task\_id** determines all other attributes, the relation is already in BCNF.

both entities are already in BCNF, indicating that they are well-structured and don't require further decomposition to achieve BCNF.