

# CSC343 Assignment 1 Solution

June 13, 2020

## Warm Up

1. What does this integrity constraint mean?  $\sigma_{\text{follower}=\text{followed}} \text{Follows} = \emptyset$

Means there is no result in a query where user follow himself/herself

2. Would it be a good idea to define the Follows relation like this? Follows(follower, followed, start)

Omitted for now

3. Can the database represent a single post that has multiple comments?

Yes.

Create two relations Comment(pid, commenter, when, text) and Post(pid, uid, when, location, caption). Set *pid* in comment to be the pid of Post.

Since primary key of Comment is *pid*, *commenter*, *when*, comments can have multiple entires with the same *pid*.

On the other hand, since *pid* in Post is the only primary key, it's value must be non-repeating.

## Part 1

1. Rough Work:

1. Find all users who liked a post

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