# CS4221 Database Design Project Proposal

# Project Title: View updates on relational databases

**Team members:**

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**Type of project**

Implementation

**Motivation**

Physical representation of database is efficient and contains minimal data redundancy which is achieved through normalization; however every step in normalization will cause it to lose its meaning from user perspectives. Therefore, most of the time users extract relevant information that is meaningful to him by joining different relations together. Moreover, any relation above 2NF will become increasingly difficult to maintain. When an application modifies the physical database which involves multiple relations, it has to be aware of anomalies that may arise. By allowing the application to update view, it can help reduce such risk.

**Description**

In this project, we will implement a system which provides updatable views. Extensive research shall be done to facilitate the understanding of the difficulty and the approach necessary to allow view updates into a relational database that does not cater to such a feature. This system will contain the following set of features:

* Define view
* Drop view
* INSERT operation into view
* DELETE operation from view
* UPDATE operation of view
* Perform view updates on existing database of user choice

User is allowed to use standard SQL query on database views however, the following are some constraints of the program:

* No aggregated views
* Views cannot be created from other views