# CMPUT 291 Mini Project 1 Report

Abdul-Azeez Abass (abass)     Cynthia Li (sqli)     Michael Kwok (mkwok1)

November 2020

## 1   Project Overview

## 2   Design

The project roughly follows the Model-View-Controller pattern, with the `Database` class doing the majority of the data structure and SQL access work.

## 3   Testing Strategy

Since each component of the system was developed seperately and at different times with the `Database` module coming first, it has a suite of unit tests which currently has about 70% coverage of the file.

The `Database` module was mostly developed with Test Driven Development as the main process, which allowed progess to be tracked, and code to be tested as it was written. The output of functions were compared with similar but not identical SQL commands directly to the database to verify that each function ran as expected. Both failure and success situations were tested in test suite, making sure that the specification was provided was followed.

Integration testing was done manually, by testing each state and part of the interface by hand as setting up automated testing for this part would have been overkill.

## 4   Groupwork Breakdown

- Azeez

  –

- Cynthia

  – Designed state flow of system
  – Implemented most different states
  – Created user interface

- Michael

  –