

# 1103 Project Proposal

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Winter 2024

## 1 Introduction

This project involves creating an online database that outlines the university and its relations. This will include me creating ER diagrams for the University, creating DDL statements for each of the universities entities and relations and connecting my diagrams to a JDBC.

## 2 Objective

This database project will help give me hands on experience with databases and allow me to further my SQL and Java knowledge. I plan on accomplishing the **Moderate Requirements** which will involve inserting the records to the table which will be given by Dr Kim as well as calculating a 10% tax rate for the instructors and finding the student with the highest grade for each semester.

## 3 Plan

### 3.1 ER Diagrams

I plan on drawing these out by hand on paper before taking a photo of them and digitalizing them.

### 3.2 DDL statements

I plan on creating these in a text file online, which will allow me to easily use them in any format and change them as needed.

### **3.3 Sample Insert Statements**

I plan on creating these in a text file online as well, this will allow me to easily change and update them as I need.

### **3.4 Entities That I Need to Create**

Student  
Course  
Instructor  
Advisor  
Building  
Department

### **3.5 Relationships That I Need to Create**

Takes\_Course  
Teaches\_Course  
Advises\_Student

## **Conclusion**

I hope this database project will allow me to further develop my database skills and help me learn how to create and manipulate databases in JDBC.