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Team: The Course Warriors

CSCI Final Project: Milestone #3

Database Design Document

We chose to create our relational MySQL database on the Google Cloud Platform. Our database currently has four tables: CourseName, CourseRating, CourseDifficulty, and GradeDistribution. The three tables CourseName, CourseRating, and GradeDistribution have 60,410 rows. The CourseDifficulty table has 4,835. CourseName has three attributes: course subject, course number, and course title. CourseRating has four attributes: course subject, course number, course rating, and the average professor rating. GradeDistribution has six attributes: course subject, course number, percentage of students who received an A, percentage of students who received a B, percentage of students who received a C, and percentage of students who received a D or an F. CourseDifficulty has five attributes: course subject, course number, average grade, average hours, and the raw workload. All of the data in our database was taken from the FCQ data provided by the University of Colorado. The primary key of each table is the course number. The CourseName table has a 1:1 relationship with CourseRating and GradeDistribution. The CourseDifficulty table has a 1:many relationship with CourseName.

*Although the requirements say to include a .sql file which was used to create and populate the tables, we only have one file that creates the tables. The Google SQL Cloud platform allows for easy population of tables from CSV files. Therefore, we created four different CSV files with the data corresponding to each table in our database. We then created the tables using the createTables.sql file. Once the tables were created, we imported the data from our CSV files stored on Google Cloud Storage. Accordingly, we do not have code to populate the database.*