Week 12 Lab: Database

In this lab, you will be creating the database system from last week using files. The files: db.h, main.c, ,and test.c are the same. db.c is slightly different: you will need to delete the entire database, there is another item in the backlog that cover clearing the database and a call to clear_db in execute_command.

If you need this week to complete db1.zip, do so; otherwise continue with it. Otherwise start with db2.zip. There are only three weeks of class left; one of which is Diwali. Make sure that you have enough time to complete all of your programs.

Get Backlog and Files

- 1. From your Unix account, get the files using:
 - wget sp.nathanielgmartin.com/db2.zip
 - If you are on campus remember to log in to the Internet first.
- 2. Unzip the files in db2.zip using:
 - unzip db2.zip,
- 3. You will find a Makefile, a complete db.h, a complete test.c, and a partially complete db.c that will guide you through the process of writing the files. Your task is to complete the files in db.c

Tips

• Much of the code for the first story can be copied from calc.c

Demo

Today you will be demoing the entire database implemented using files. The team will demonstrate one program.

Marks

- Story 1 (15 marks)
 - Proper formatting and clean compilation (5 marks)
 - UI works (10 marks)
- Story 2 (15 marks)
 - Proper formatting and clean compilation (5 marks)

- Adds a record. (10 marks)
- Story 3 (15 marks)
 - Proper formatting and clean compilation (5 marks)
 - Print all records. (10 marks)
- Story 4 (15 marks)
 - Proper formatting and clean compilation (5 marks)
 - Correctly adds multiple records (10 marks)
- Story 5 (15 marks)
 - Proper formatting and clean compilation (5 marks)
 - Correctly adds a set of student records. (10 marks)
- Story 6 (15 marks)
 - Proper formatting and clean compilation (5 marks)
 - Correctly finds a student record. (10 marks)
- Story 7 (15 marks)
 - Proper formatting and clean compilation (5 marks)
 - Correctly modifies a student record. (10 marks)
- Story 8 (15 marks)
 - Proper formatting and clean compilation (5 marks)
 - Correctly deletes a student record. (10 marks)