Andrew Wiltberger

PA3 Design Document

This program parses text from an input file. It treats directories as databases and text files as tables. Tuples are stored and read from the text files.

Inner Join was implemented with the suggested nested for loop implementation. First, I identified which column the information I am comparing is in each table. Then for each line in the left table I compare the relevant column value with every line in the right table, printing lines that satisfy the condition.

Left outer joins were implemented in a similar way. However, this time I used a flag, every time I found a match for a line in the left table, I would increment the flag. If by the time all the lines in the right table were compared to the left table and the flag was still 0 I knew that there had been no matched and I could just print the line from the left table by itself. If the flag was greater than 0 I knew I had found at match and no more work was needed.