

# Programming Assignment 3

CS 457

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## Implementation

### Join Operations

I took the naive approach as described in the assignment doc for the inner join. Simply looping through each line of table\_file\_1 and table\_file\_2 and checking the condition. If satisfied the program prints the entire row to screen.

For the left outer join I created my own algorithm. First the program appends the index pairs for each tuple that satisfies the join condition to a list. Then the program iterates through that list of indexes and prints each tuple fully. If the condition is not satisfied then current pid is checked and only the left portion of the tuple is printed.

### Compilation

To compile and run the source code simply type

```
python3 driver.py <sql file name>
```

Or

```
python3 driver.py
```

For standard input. When using the standard input press enter after each individual command or series of commands delimited by semicolon. It also works for injecting a file by typing

```
python3 driver.py <PA3_test.sql
```