

Systems Programming

In this assignment, you will write a mini-database that uses basic file I/O. You may choose any file format you like, including flat file, XML, JSON, comma separated values, binary files, or a format of your own choosing, but you must support the following:

- Some SQL-like operations, namely:
 - `SELECT * FROM TableName WHERE Field1="value"`
 - `DELETE FROM TableName WHERE Field1="value"`
 - `UPDATE TableName SET Field1="new value" WHERE Field2="value"`
 - `SELECT * FROM TableName JOIN TableName2 ON
 TableName.Field1 = TableName.Field2`
 - `INSERT INTO TableName (Field1="value", Field2="value", ...)`
- Creation and deletion of multiple tables per database:
 - `CREATE TABLE TableName FIELDS [Field1, Field2, ...]`
 - `DROP TABLE TableName`

In addition, your program must be able to select a database, creating one if it does not exist, via a command-line parameter.