

CmpE130 Homework 3

Due date: 24 Sept. 2009

Go to the site <http://www.nts.gov/ntsb/query.asp> which provides access to the National Transportation Safety Board database of aviation accidents. Enter some of the fields and hit "Submit query".

- A. Give an overview of the file format. An overview is a verbal description of the abstract data type and general characteristics of the file structure.
- B. How many fields are there in each record?
- C. What are they?
- D. Which field should be used as the primary key? Is a single field sufficient?
- E. Propose a data format for storing the information in the file so that it would be easy to read back.
- F. View the HTML source code for a page. Propose an algorithm for reading and extracting fields and records.
- G. Select the original page and cut and paste into Notepad. Propose an algorithm for reading and extracting fields and records from a text file produced in this way. Note any fields that might be problematic and explain why.