Econ 294 Final Exam

Curtis Kephart

Winter 2016

Data - Work with the r package `nycflights13`. Build your solutions by querying from the `nycflights13_sqlite()` sqlite database (see lecture 8 notes, and `dplyr`'s two table verb vignette for insight on how to do this). To be clear, this SQLite database must be your starting point, you may not load your data from any other source.

Here is a detailed explaination of each database table and variable (column), and data source.

Explain the relationship between departure delays and cancelations with each of the following flight facets:

a) weather

b) time of day, day of week, and time of year, and any other aspect of time

c) airport destination

d) characteristics of the plane

e) significant interaction between these facets

Use **concise**, clear text to explain nice-looking plots, tables, and models to support your analysis. To be clear – and offer an additional challenge – I don't want your text to exceed two pages (not including plots and tables).

At the end of your paper, I expect to have a clear idea of under what conditions I should expect takeoff delays and cancellations at New York City airports in 2013.