

# Week 2 Assignment

***Week 2 assignment is due end of day on Sunday February 8th. You may work in a small group on the assignment.***

Please use the tables in the `flights` database. Your deliverable should include the SQL queries that you write in support of your conclusions. You should submit your assignment in github, and provide a link to your github “repo” in your assignment submission in Blackboard.

*We'll look together at some of the most interesting student solutions in our office hours on Wednesday February 11<sup>th</sup>.*

One of the differences between the work of a data scientist and that of a software developer is that a data scientist explores data, asking and answering questions (where the questions asked may evolve as answers are found), whereas the endgame of the software developer is often to operationalize and improve business processes. Often work in data science leads to downstream work in software development.

For each question, please provide the SQL statement or statements that you wrote to support your conclusions.

1. Which destination in the `flights` database is the furthest distance away?
2. What are the different numbers of engines in the `planes` table? For each number of engines, which aircraft have the most number of seats?
3. What weather conditions are associated with New York City departure delays?
4. Are older planes more likely to be delayed?
5. Ask (and if possible answer) a question that also requires joining information from two or more tables in the `flights` database, and/or assumes that additional information can be collected in advance of answering your question.