Project specifications (rubric)

**1. Code Quality**

* All code is functional (i.e. no errors
* functions and loops where possible to reduce repetitive code. Comments and docstrings are used a

**2. Exploratory Data Analysis**

* univariate, bivariate, and multivariate plots, many relationships, *Reasoning* is used to justify *the flow of the exploration*
* Questions and observations are placed regularly throughout the report, after each plot or set of related plots.
* choice of appropriate plot type, data encodings, transformations, and labels as needed.

**3. Explanatory Data Analysis**

* A section in the submitted materials includes a summary of main findings on the steps taken during the data exploration, describes the key insights
* A slideshow is provided, with at least three visualizations with comments, to convey key insights documented in the summary
* plot have appropriate titles with labeled axes and legends, Labels include units

Suggestions

- a variety of plot types to explore different relationships

- exploration, document your thought processes

- explanatory presentation, focus on one or two paths that tell a compelling story

- document design decisions

- Gather feedback

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To view the slide deck, you will need to use the expression (all one line):

jupyter nbconvert Example\_Project\_Diamonds\_Part2.ipynb --to slides --post serve --template output\_toggle

from the terminal or command line, rather than just opening up the associated html file directly.

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This dataset reports flights in the United States, including carriers, arrival and departure delays, and reasons for delays, from 1987 to 2008.

Questions examples:

- Are there certain destination or arrival cities that are home to more delays or cancellations?

- What are the preferred times for flights to occur?

- Are there any changes over multiple years?

- When is the best time of day/day of week/time of year to fly to minimise delays?

- Do older planes suffer more delays?

- How does the number of people flying between different locations change over time?

- How well does weather predict plane delays?

- Can you detect cascading failures as delays in one airport create delays in others? Are there critical links in the system?

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