nycflights13 dataset. Try creating one PivotTable and one visualization with this data. I am going to show you a pretty cool map feature first.

* Load flights and airports into the Data Model
* Create a relationship on flights.dest with airports.faa:
* Insert a “flattened” PivotTable into your workbook. This will be easier to create the data source for the map  
    
  Graphical user interface, diagram, application

  Description automatically generated
* Create the PivotTable – be sure to at least include lat, lon, name, average distance but feel free to experiment with some other ones like I am! The map chart will load the entire data model but I like doing this first to make sure the data looks good.

Graphical user interface, application, table, Excel

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* Insert > 3D Maps > New Tour

To create the map, you *must* place lat and lon in the location fields. I am going to drag average flight time to Height and then timezone to Category

You can see if you hover over the points of the map you can see some information about the datapoints. I am going to customize these with the Data Card:

* Click under Layer Options > Data Card > Customize
* I am going to add Destination (name) and clean some other stuff up on this data card/tooltip like so:  
  Graphical user interface, application

  Description automatically generated
* I’d like to format the average distance a little nicer so it’s in hours and minutes. Back out of this map which by default will be named “Tour 1,” you can rename this by clicking right here:   
  A picture containing map

  Description automatically generated

Try this with distance instead of time – just to make it easier on yourself. And then suggest a few things you could try doing with this dataset

* Weather trends?
* Cancellation rates?
  + The logic here
* Analysis of reliability or other flight statistics by airport or aircraft?
  + Don’t be afraid to enrich your data with conditional or other columns!
  + For now, use basic Excel

A picture containing graphical user interface

Description automatically generated

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Description automatically generated

https://jrnold.github.io/r4ds-exercise-solutions/relational-data.html