

Stat 133 Assignment 2

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2.7

1. There are 16 variables.
2. There are 336776 cases.
3. Each case is a flight
4. These variables are quantitative: year, month, day, dep_time, dep_delay, arr_time, arr_delay, flight, air_time, distance, hour, minute, and these are categorical: carrier, tailnum, origin, dest
5. air_time is in minutes and distance is in miles.

2.8

- a. Improper syntax for function argument
- b. No assignment operator
- c. Invalid object name
- d. Unmatched quotes in character string
- e. No mistake

2.10

- There are 76 variables.
- tfat measures mass of trunk fat
- WorldCities has 23018 cases.
- The third variable in BabyNames is count.
- The codes are 1, 2, 3, 4. They stand for DEM, LIB, REP, UNA.

3.4

- 1) BabyNames : data table name
- 2) filter : function name
- 3) name : variable name
- 4) == : function name
- 5) group_by : function name
- 6) year : variable name

- 7) sex : variable name
- 8) summarise : function name
- 9) yearlyTotal : name of a named argument
- 10) sum : function name
- 11) count : variable
- 12) ggplot : function name
- 13) aes : function name
- 14) x : name of a named argument
- 15) y : name of a named argument

3.5

1. The brainwt variable means: brain weight in kilograms.
2. There are totally 83 cases.
3. The real-world meaning of a case is Mammal's sleep pattern.
4. The levels are carni, omni and herbi.

3.6

Statement c finds average of births across all cases in each year/sex group, instead of finding the total number of births in other statements.

4.1

1. **one**: italics.
2. ****two****: bold font.
3. * three: item in a bullet point list.
4. # Four: first-level header.
5. 'five': code font.
6. ## Six: second-level header.
7. [seven](<http://tiny.cc/dcf/index.html>): A link with text “seven”.