Problem 2.7

1. There are 16 variables
2. 336776 observations/cases
3. The meaning of a case is here flight. Each case represents one flight that departed NYC in 2013
4. For each variable:

Year: quantitative

Month: quantitative

Day: quantitative

Dep\_time: quantitative

Dep\_delay: quantitative

Arr\_time: quantitative

Arr\_delay: quantitative

Carrier: categorical

Tailnum: quantitative

Flight: quantitative

Origin: categorical

Dest: categorical

Air\_time: quantitative

Distance: quantitative

Hour: quantitative

Minute: quantitative

1. Air\_time is in minutes. Distance is in miles

Problem 2.8

a) 1. No assignment operator

b) 3. Improper syntax for function argument

c) 4. Invalid object name

d) 2. Unmatched quotes in character string

e) 5. No mistake

Problem 2.10

1. There are 76 variables in the CountryData
2. Tfat measures the mass of trunk fat
3. There are 23018 cases in WorldCities
4. The 3rd variable for BabyNames is “count”
5. Party represents party affiliation. The levels are DEM = democratic, LIB = libertarian, REP = republican, UNA = unaffiliated

Problem 3.4

1. function name = filter, group\_by, summarise, sum, aes, geom\_vline, geom\_point, count, ==,
2. data table name = BabyNames
3. variable name = year, sex, xintercept, color, x, y
4. Name of Named argument = YearlyTotal

Problem 3.5

Brain weight

83 cases

case – each case is 1 animal that the table records

There are 4 levels of the vore variable - carni, herbi, insect, omni

Problem 3.6

Option (c) does not perform the same calculations as the other ones. Instead of finding the sum of total count, option (c) finds the mean of the count.

Problem 4.1

\*one \*

italics

\*\*two\*\* bolds

\* three – new bullet point

# Four – new header

`five` creates a new chunk

## Six – creates a second header called Six

[seven] – seven is the link where you click on and the http:/tiny.cc is what you are redirected to/URL

Problem 4.5

---

title: "Birds of the World"

author: "JJ Audubon"

date: ""

output:

html\_document:

fig\_height: 3

fig\_width: 5

---

<!-- Don't edit in between this line and the one below -->

```{r include=FALSE}

# Don't delete this chunk if you are using the DataComputing package

library(DataComputing)

```

\*Source file\*

```{r, results='asis', echo=FALSE}

includeSourceDocuments()

```

<!-- Don't edit the material above this line -->

There are many species of birds in the world. From my studio, I can see

\* Blue Jays

\* Cardinals

\* Robins

\* Cros

\* Sparrows

In class small project rmd:

---

title: "Small Project"

author: "Yishan Han"

date: "1/29/2016"

output:

html\_document:

fig\_height: 3

fig\_width: 5

---

<!-- Don't edit in between this line and the one below -->

```{r include=FALSE}

# Don't delete this chunk if you are using the DataComputing package

library(DataComputing)

```

\*Source file\*

```{r, results='asis', echo=FALSE}

includeSourceDocuments()

```

<!-- Don't edit the material above this line -->

I downloaded the data from (http://tiny.cc/dcf/Library-small.rda)

# \*\*Basics\*\*

```{r echo = FALSE}

load("Library-small.rda")

```

``` {r}

nrow(Bks)

nrow(Inv)

names(Bks)

names(Inv)

dim(Bks)

dim(Inv)

```

`nrow(Bks)` and `nrow(Inv)` show the number of rows in the `Bks` and `Inv` tables.

`names(Bks)` and `names(Inv)` show the names of all the columns and rows in the `Bks` and `Inv` tables, respectively.

`dim(Bks)` and `dim(Inv)` show the dimensions of the tables.

# \*\*The number of books with each different current status\*\*

```{r echo = FALSE}

Inv %>%

group\_by(Current.Status) %>%

tally()

```

# \*\*How many books have been checked out\*\*

```{r echo = FALSE}

Inv %>%

group\_by(Issued.Count) %>%

tally()

```

The first column shows how many books have been issued and the right column shows how many times they have been issued.