Project 1 Solutions

Kevin Choe

Collaborators: N/A

TA help: N/A

Online resources used: Dr.Ward's 2 Tutorial Videos (Start to Finish)

Question 1

The memory on the 7 frontend nodes is 4 * 512 + 3 * 768 = 4352 GB = 4.3 TB The memory on the 28 nodes in the sub-cluster is: 24 * 64 + 4 * 192 = 2304 GB = 2.3 TB The memory on Kevin's laptop is 8 GB.

Question 2

```r
system("hostname", intern=T)
```

[1] "scholar-fe00.rcac.purdue.edu"

I am working on Scholar front end number 0.

Question 3

"You've successfully loaded The Data Mine R settings!"

Question 4

There are 3 chunks of R code, 1 chunk of bash, 1 chunk of Python, 1 chunk of SQL

Question 5

Output displayed is: 1, 2, 3

```r
my_variable <- c(1,2,3)
my_variable
```

[1] 1 2 3

Question 6

```r
4 * 512 + 3 * 768
```

[1] 4352

```r
24 * 64 + 4 * 192
```

[1] 2304

Question 7

```r
splash_mountain <- read.csv("/class/datamine/data/disney/splash_mountain.csv")
head(splash_mountain)
```

```
        date            datetime SACTMIN SPOSTMIN
1 01/01/2015 2015-01-01 07:51:12      NA        5
```

```
2 01/01/2015 2015-01-01 08:02:13     NA      5
3 01/01/2015 2015-01-01 08:09:12     NA      5
4 01/01/2015 2015-01-01 08:16:12     NA      5
5 01/01/2015 2015-01-01 08:23:12     NA      5
6 01/01/2015 2015-01-01 08:29:12     NA      5
```

Question 8

Submit Rmd file, original R file, and resulting pdf file.

Pledge

By submitting this work I hereby pledge that this is my own, personal work. I've acknowledged in the designated place at the top of this file all sources that I used to complete said work, including but not limited to: online resources, books, and electronic communications. I've noted all collaboration with fellow students and/or TA's. I did not copy or plagiarize another's work.

> As a Boilermaker pursuing academic excellence, I pledge to be honest and true in all that I do. Accountable together - We are Purdue.