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Project 2

```
1a. proj2.R:
# install.packages("sparklyr")
# library(sparklyr)
# spark_install()
library(tidyverse)
library(sparklyr)
setwd("c:/temp/cpsc375proj2/")
# mylocaldata <- read_csv ("http://staff.pubhealth.ku.dk/~tag/Teaching/share/data/Bodyfat.csv")
mylocaldata <- read_csv("Bodyfat.csv")
sc <- spark_connect(master = "local")</pre>
myremotedata <- copy_to(sc, mylocaldata, overwrite = TRUE)
# our group's formula for the best model that describes bodyfat
# bodyfat ~ Wrist + log(Abdomen) + Weight^2
# unfortunately, ml_linear_regression has a problem with the log and exponent functions \
# so we have to simplify the formula
mymodel <- ml linear regression(x=myremotedata, formula =
bodyfat~Wrist+Abdomen+Weight)
summary(mymodel)
spark_web(sc)
```

1b. Output of summary(model):

> summary(mymodel)
Deviance Residuals:
 Min 1Q Median 3Q Max
-13.0803 -3.2463 -0.2175 3.2472 9.8018

Coefficients:

(Intercept) Wrist Abdomen Weight -27.9299169 -1.2448589 0.9751296 -0.1144609

R-Squared: 0.7277

Root Mean Squared Error: 4.358

1c. A screen capture image of the running Apache Spark web UI.

