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Explorations continued:

summarize (or agg) / groupBy (or group_by)

magrittr

It's all about pipes! Here is a great introduction from the author: http://www.r-statistics.com/2014/08/simpler-r-coding-with-pipes-the-present-and-future-of-the-magrittr-package/

```
# install.packages('magrittr')
library(magrittr)
groupBy(diabetes_sparkdf, diabetes_sparkdf$age) %>%
   summarize(total_diagnoses =
sum(diabetes_sparkdf$number_diagnoses)) %>%
   arrange(diabetes_sparkdf$age) %>%
   head
```

SparkSQL

```
# http://spark.apache.org/docs/latest/sql-programming-quide.html
# register data frame as an SQL table
registerTempTable(diabetes_sparkdf, "diabetes_sparktbl")
# SELECT
payor_code <- sql(sqlContext, "SELECT payer_code FROM</pre>
diabetes sparktbl")
head(payor code)
# SELECT DISTINCT
payor code <- sql(sqlContext, "SELECT DISTINCT payer code FROM</pre>
diabetes sparktbl")
collect(payor code)
# count
young_at_risk <- sql(sqlContext, "SELECT count(*) FROM</pre>
diabetes sparktbl WHERE num lab procedures >= 30 AND age = 10-
20)'")
head(young at risk)
```