

Quick exercise: write out the HSB file with a semicolon delimiter

```
### Code Above
##write_delim(hsb, path="hsb_semicolon.txt",delim=";")
```

Quick Exercise: Read in this file: <http://nces.ed.gov/programs/digest/d14/tables/xls/tabn302.10.xls>

```
library(rxcel)
library(dplyr)

if(file.exists("completion.xls")==FALSE){
  download.file("http://nces.ed.gov/programs/digest/d14/tables/xls/tabn302.10.xls",destfile="completion.xls",
    mode="wb")
  #For windows mode="wb" must be added, because Windows uses binary files.
  completion<-read_excel("completion.xls",skip=4,col_names=FALSE)
}else{
  completion<-read_excel("completion.xls",skip=4,col_names=FALSE)
}

head(completion)
tail(completion)
```

Quick Exercise: now add in percent of students eligible by state

```
library(dplyr)
free_tidy<-free_tidy%>%group_by(state)%>%summarize(total_students=sum(total_students),
  total_frl_student=sum(frl_students))%>%
  mutate(pct_frl=total_frl_student/total_students)
```

state <chr>	total_students <dbl>	total_frl_student <dbl>	pct_frl <dbl>
Alabama	2930809	1587580.0	0.5416866
Alaska	500086	189489.0	0.3789128
Arizona	3959738	1782399.0	0.4501305
Arkansas	1901344	1089563.0	0.5730489
California	24601830	12988866.7	0.5279634
Colorado	3283944	1239346.0	0.3773956
Connecticut	2208276	729008.0	0.3301254
Delaware	499279	228517.0	0.4576940
District of Columbia	287383	191481.0	0.6662920
Florida	10436228	5670577.0	0.5433550

1-10 of 51 rows

Previous 1 2 3 4 5 6 Next

Answer to 4.8

Quick Exercise: What's the total number of free and reduced-price lunch students in 2000? As always, use numbers only, no commas.

```
library(dplyr)
free_year<-free_tidy%>%group_by(year)%>%summarize(total_students=sum(total_students),
  total_frl_student=sum(frl_students))%>%
  mutate(pct_frl=total_frl_student/total_students)

free_year[free_year$year == 2000, ]
```

year <chr>	total_students <dbl>	total_frl_student <dbl>	pct_frl <dbl>
2000	46579068	17839867	0.3830018

1 row