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Program Name: jblubau1_hw09_script
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Date Created: 10/16/2016
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```
Author: Joseph Blubaugh
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Purpose: Homework Assignment 9
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***** */
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```
libname datadb 'C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Materials' access=readonly;
```

```
libname output 'C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Data';
```

```
* 3) Step output file name;
```

```
filename outpdf 'C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Homework\jblubau1_hw09_output.pdf';
```

```
* 4) Read in data into permanent library;
```

```
data output.bls;
```

```
set datadb.tabled1x2016;
```

```
* a) Get rid of blank rows;
```

```
where state is not null;
```

```
* b) Relabel months;
```

```
label Aug__2015 = 'August 2015'
```

```
Sept__2015 = 'September 2015'
```

```
Oct__2015 = 'October 2015'
```

```
Nov__2015 = 'November 2015'
```

```
Dec__2015 = 'December 2015'
```

```
Jan__2016 = 'January 2016'
```

```
Feb__2016 = 'February 2016'
```

```
Mar__2016 = 'March 2016'
```

```
Apr__2016 = 'April 2016'
```

```
May__2016 = 'May 2016'
```

```
June__2016 = 'June 2016'
```

```
July__2016 = 'July 2016'
```

```
Aug__2016 = 'August 2016'
```

```
report_date = 'Report Date'
```

```
annual_change = 'Annual Change';
```

```
* c) Create Report Date Column;
```

```
report_date = '08oct2016'd;
```

```
format report_date MMDDYY10.
```

```
annual_change percent8.1;
```

```
* d) Create percent change Aug15 to Aug16;
```

```
annual_change = (Aug__2016 - Aug__2015)/Aug__2015;
```

```
run;
```

```
* 5) Create a subset where year over year changes are > 10%;
```

```
data bigchange;
```

```
set output.bls;
```

```
where (annual_change >= .1 or annual_change < -.1) and annual_change is not missing;
```

```
keep industry state aug__2015 aug__2016 report_date annual_change;
```

```
run;
```

```
* 6) Create subset where jobs in Aug16 are greater than Aug15;
```

```
data growth;
```

```
set output.bls;
```

```
drop Aug__2015 Sept__2015 Oct__2015 Nov__2015 Dec__2015 report_date annual_change;
```

```
where (Aug__2016 - July__2016) >= 1;
```

```
run;
```

```
* 7) Create subset of August15/16 for services;
```

```

data services;
    set output.bls;
    keep Industry State Aug__2015 Aug__2016 annual_change report_date;
    where annual_change is not null and industry like '%SERVICES%';
    format Aug__2015 Aug__2016 comma8.;
run;

* 8) Create subset of southern states;
data southern;
    set output.bls;
    where (state in ('Texas' 'Oklahoma' 'Arkansas' 'Louisiana' 'Mississippi' 'Kentucky'
                    'Florida' 'Georgia' 'South Carolina' 'North Carolina' 'Virginia')
           or state like 'Alabama%'
           or state like 'Tennessee%'
           or state like 'District of Columbia%')
           and Industry ne 'GOVERNMENT';
    drop Aug__2015 Sept__2015 Oct__2015 Nov__2015 Dec__2015 report_date;
run;

* 9) Create pdf output with no bookmarks;
ods pdf file=outpdf bookmarkgen=no startpage=never;

* 10) Print descriptor portion of bls;
proc contents data=output.bls nods;
run;

* 11) Print the contents of the work directory;
proc contents data=work._all_ nods;
run;

* 12) Print data portion of big change dataset;
proc print data=bigchange noobs label;
    var /*report_date */ annual_change state industry aug__2016 aug__2015;
run;

* 13) Print Growth dataset;
proc print data=growth noobs label;
run;

proc print data=services label;
    var state aug__2015 aug__2016 annual_change industry report_date;
run;

proc print data=southern noobs label;
run;

ods pdf close;

```