SAS SQL Assignment 1 Solution

First (the right solution but SAS has to re-imerge the data)

You will receive a note a**bout the query requiring remerging** if you do the solution as the first one below. Remember, this is a NOTE, not an error. There is nothing that you have to do. Nevertheless, it is important to understand.

The problem below is that a whole bunch of columns/variables in the SELECT statement are not involved in the comparing (AvgIncome >) or groupby statement. This means that SAS has to do a second pass by to retrieve the values of these columns/variables...despite them not being involved at all. This is why remerging may be required.

select State,Zone,Unemp,Wage,Crime,Income, Avg (Income) AS AvgIncome

from statesstats

group by zone

 having AvgIncome > 30000

Order by AvgIncome DESC;

If we look at this example below, **I've taken out all the columns/variables that are not involved**, and as a result, you should not get this note.

<center>**Second (no remerging required)**</center>

proc sql;

select Zone, Avg (Income) AS AvgIncome

from statesstats

group by Zone

```
    having AvgIncome > 30000

Order by AvgIncome DESC;
```

The other situation that you may get this problem is when you use the HAVING clause, and you use a variable/column in a comparison that is not in the group by.

Ie If we had:

- `having salary > AvgSalary;`