

Week 3 HW - SPSS

Friday, August 26, 2022 2:32 PM

SPSS Statistics:

Question 1.

One-Sample Statistics

N	Mean	Std. Deviation	Std. Error Mean
ages	473	65.41	11.780

As in the Employeedata.sav file only has variable for birthdates, we first create new variable by subtracting birthdate from current date to get ages. Then we apply one sample t test, and we see that the mean is 65.41. So the hypothesis is false.

Question 2.

Paired Samples Test

	Paired Differences					Significance				
	Mean	Std. Deviation	Std. Error Mean	Lower	Upper	t	df	One-Sided p	Two-Sided p	
Pair 1 Weight - Final weight	8.063	2.886	.722	6.525	9.600	11.175	15	<.001	<.001	

We use paired t test here and we find out that each patient at average lost 8 kg.

Question 3.

ANOVA

Units sold in thousands

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	6618.844	2	3309.422	35.542	<.001
Within Groups	49257.438	529	93.114		
Total	55876.283	531			

We use ANOVA test here, and we can see that the relationship is significant.

Question 4.

ANOVA

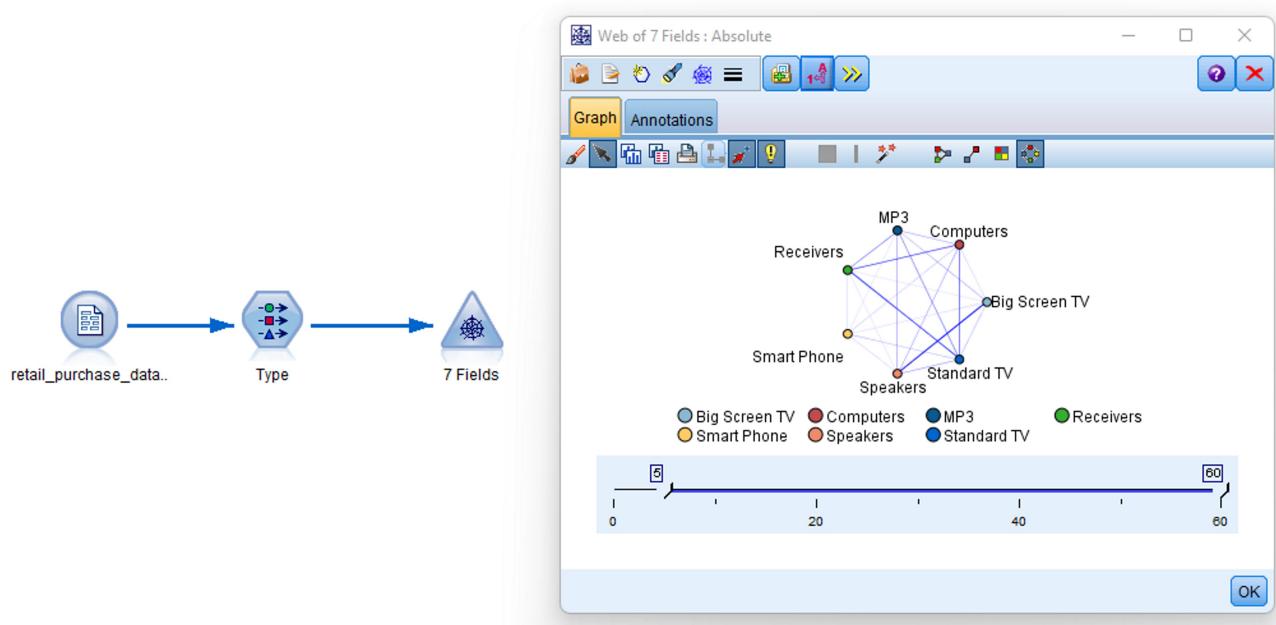
Sale value of house

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1854754.675	4	463688.669	379.160	<.001
Within Groups	1216823.101	995	1222.938		
Total	3071577.776	999			

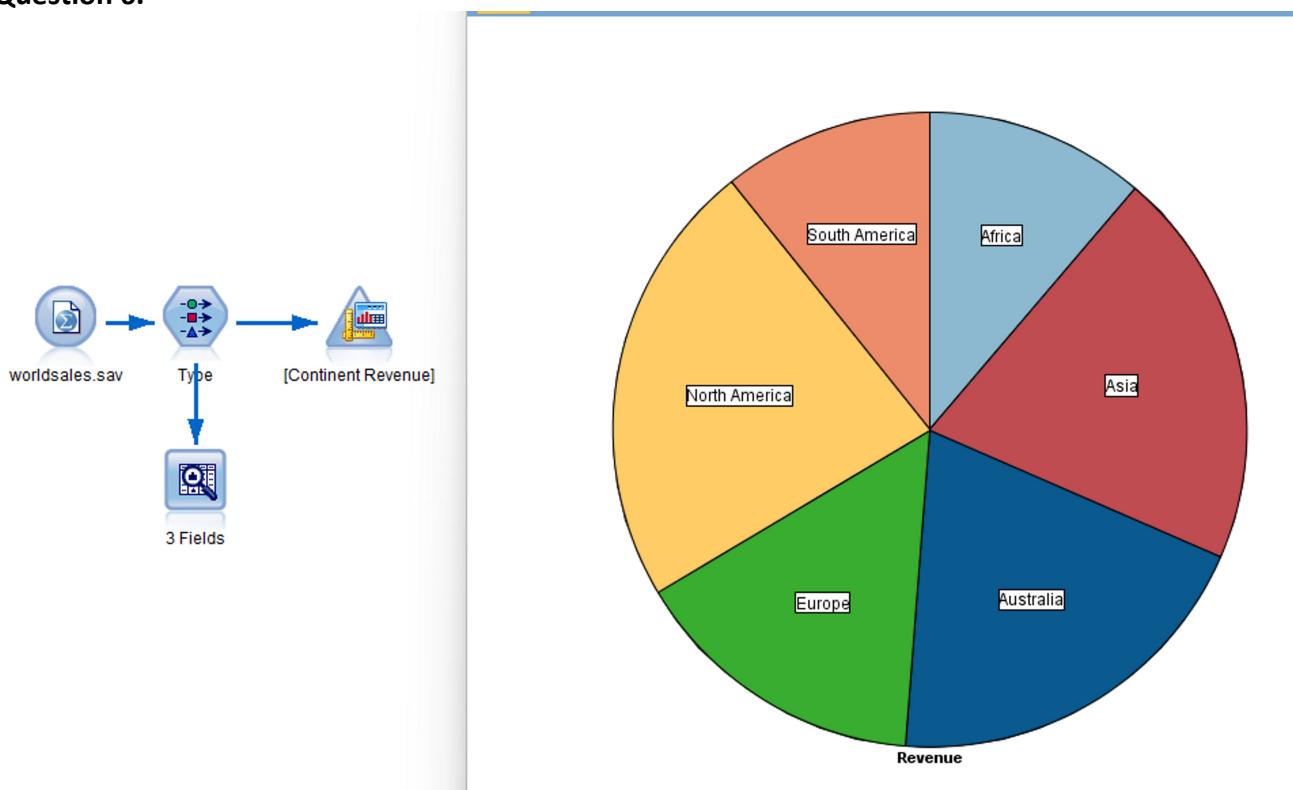
Again we use ANOVA test, and we can see that the relationship is significant.

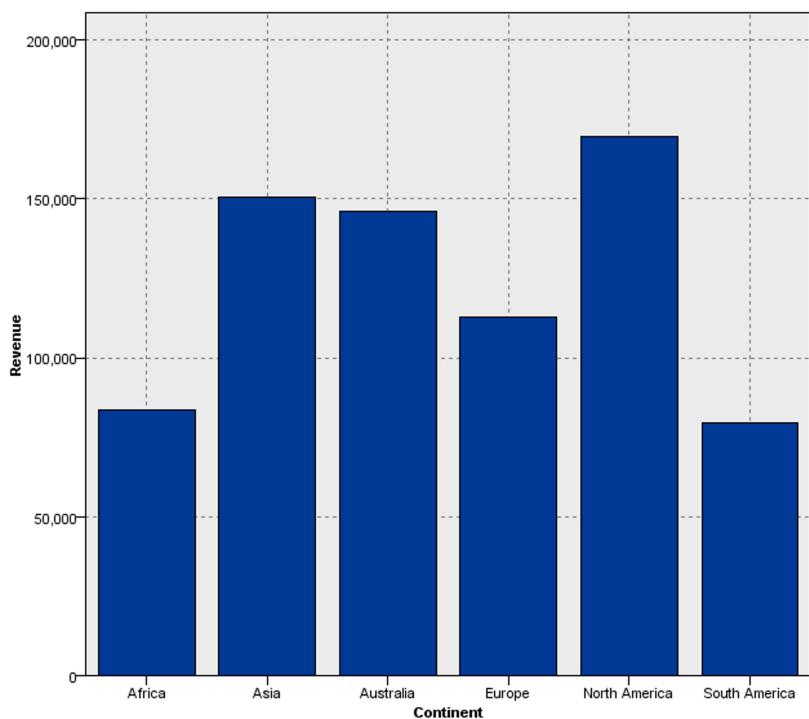
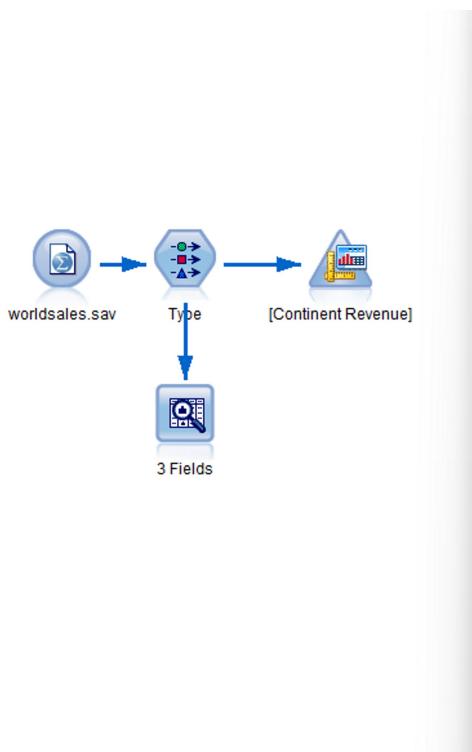
SPSS Modeler:

Question 5.

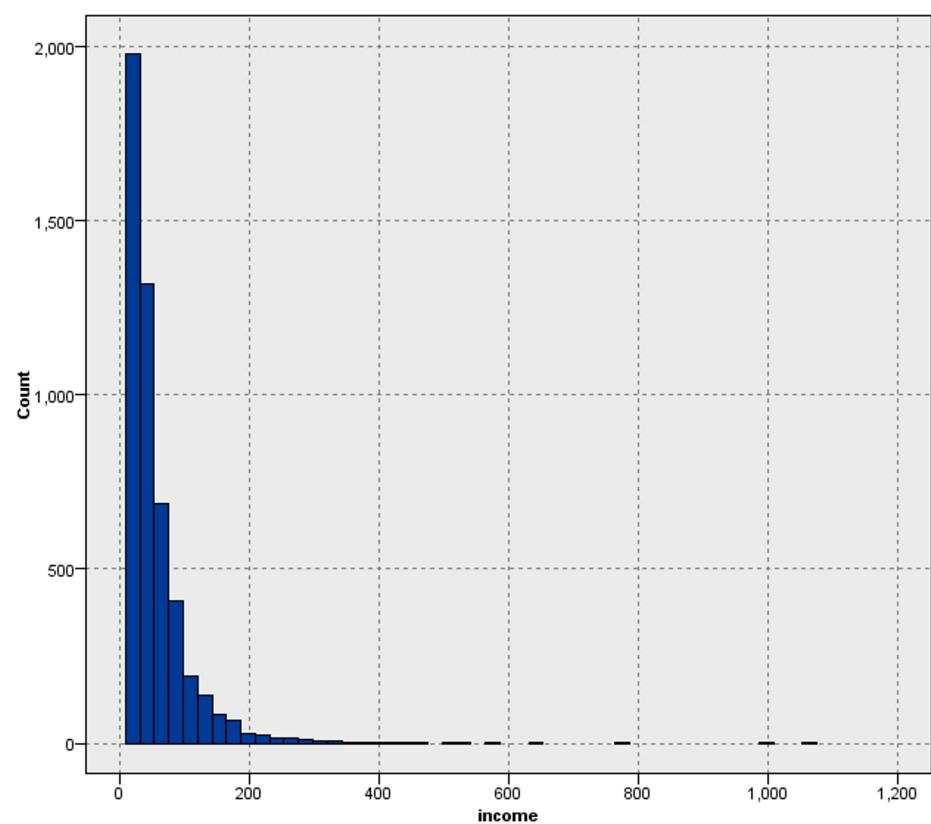
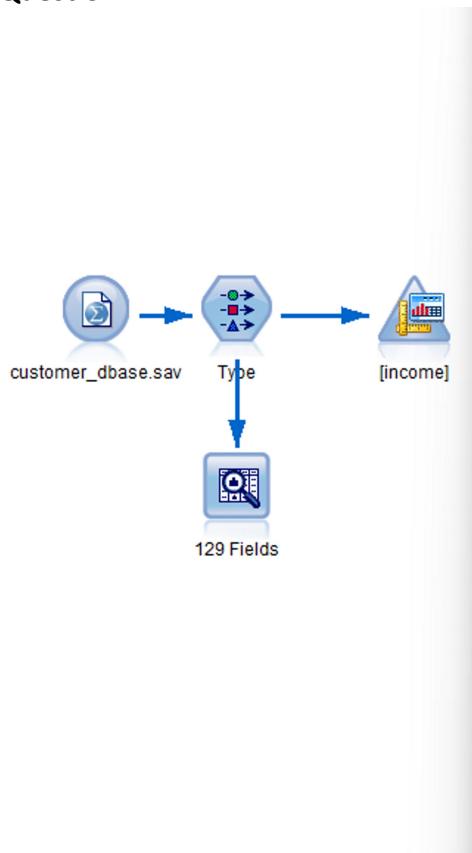


Question 6.

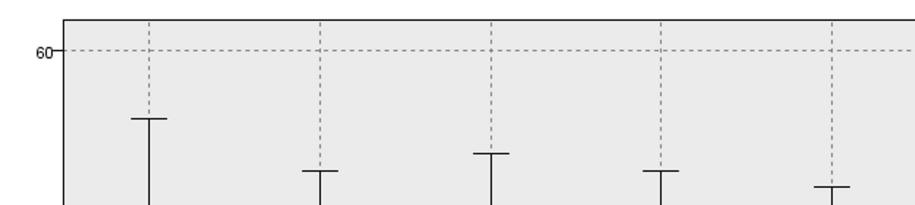


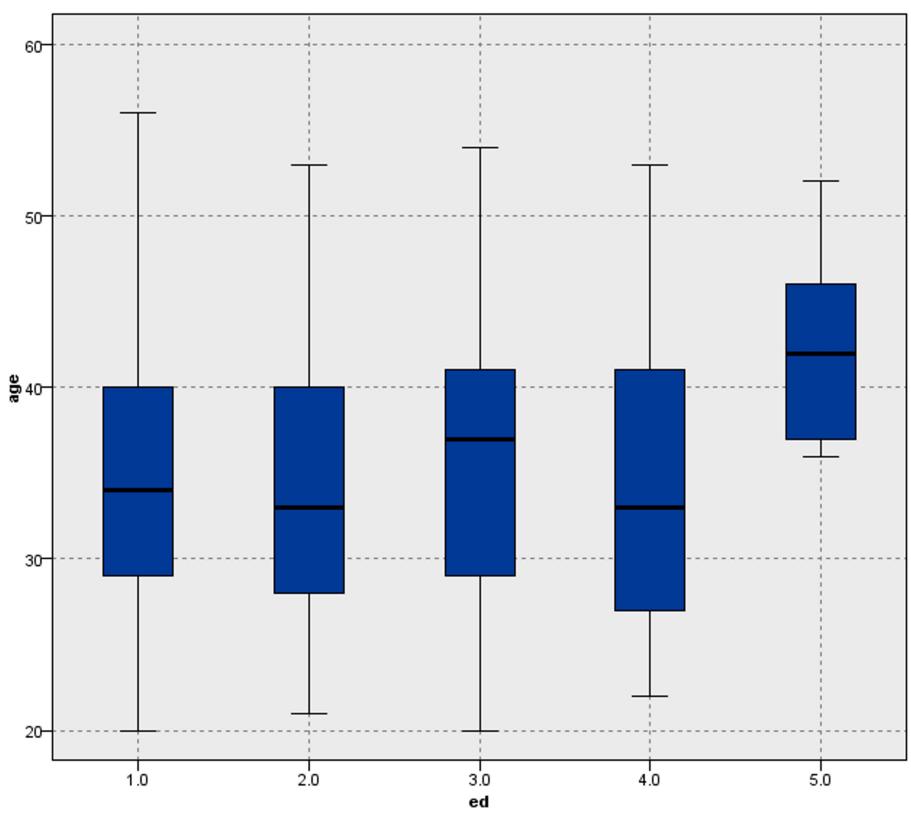
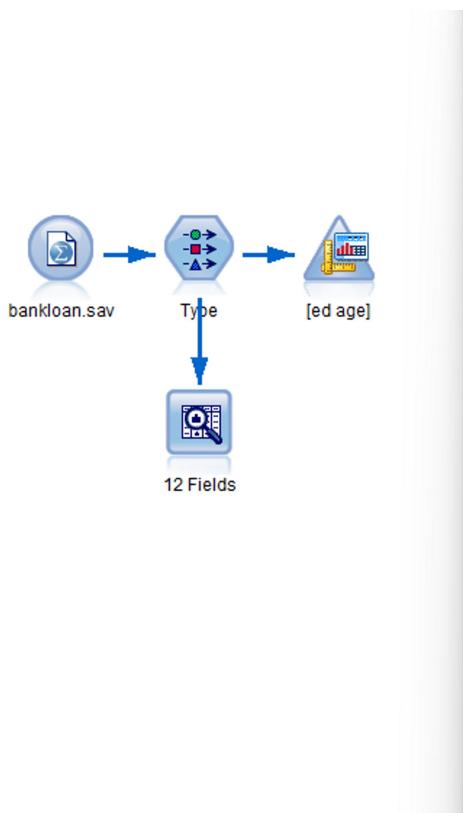


Question 7.



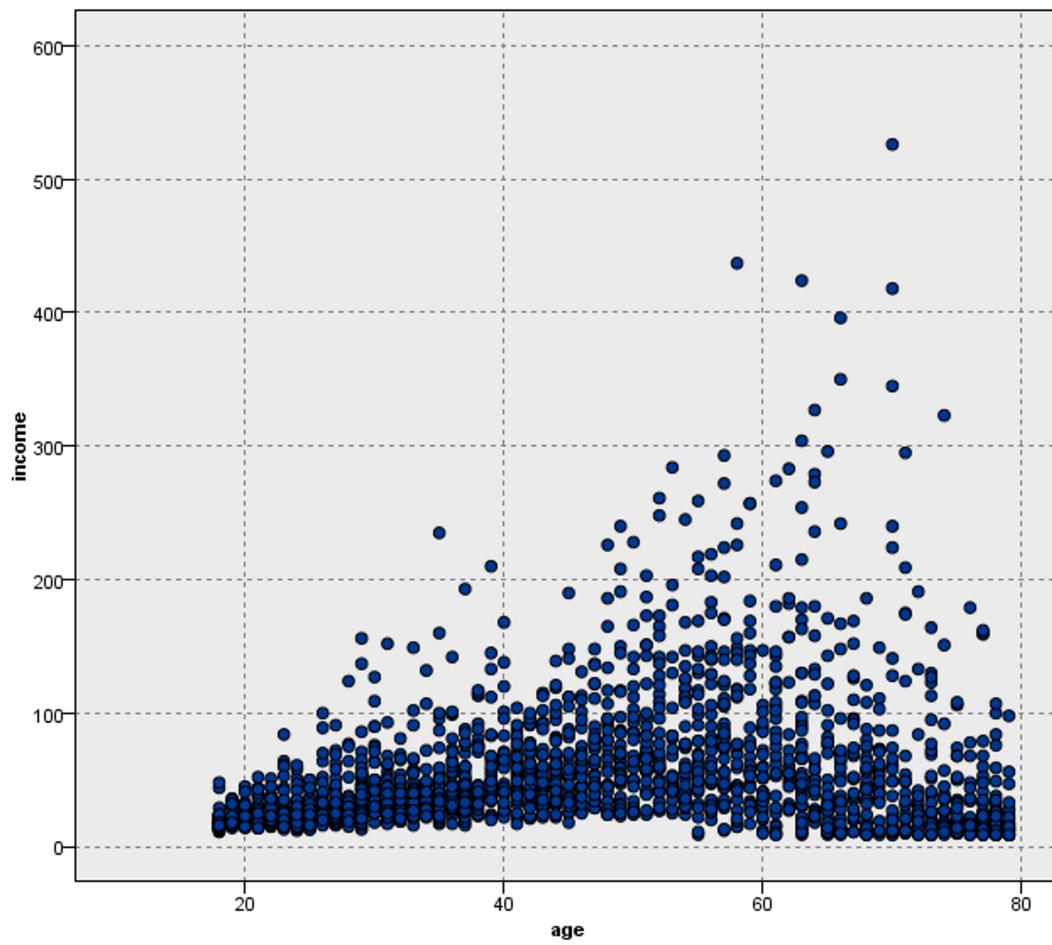
Question 8.



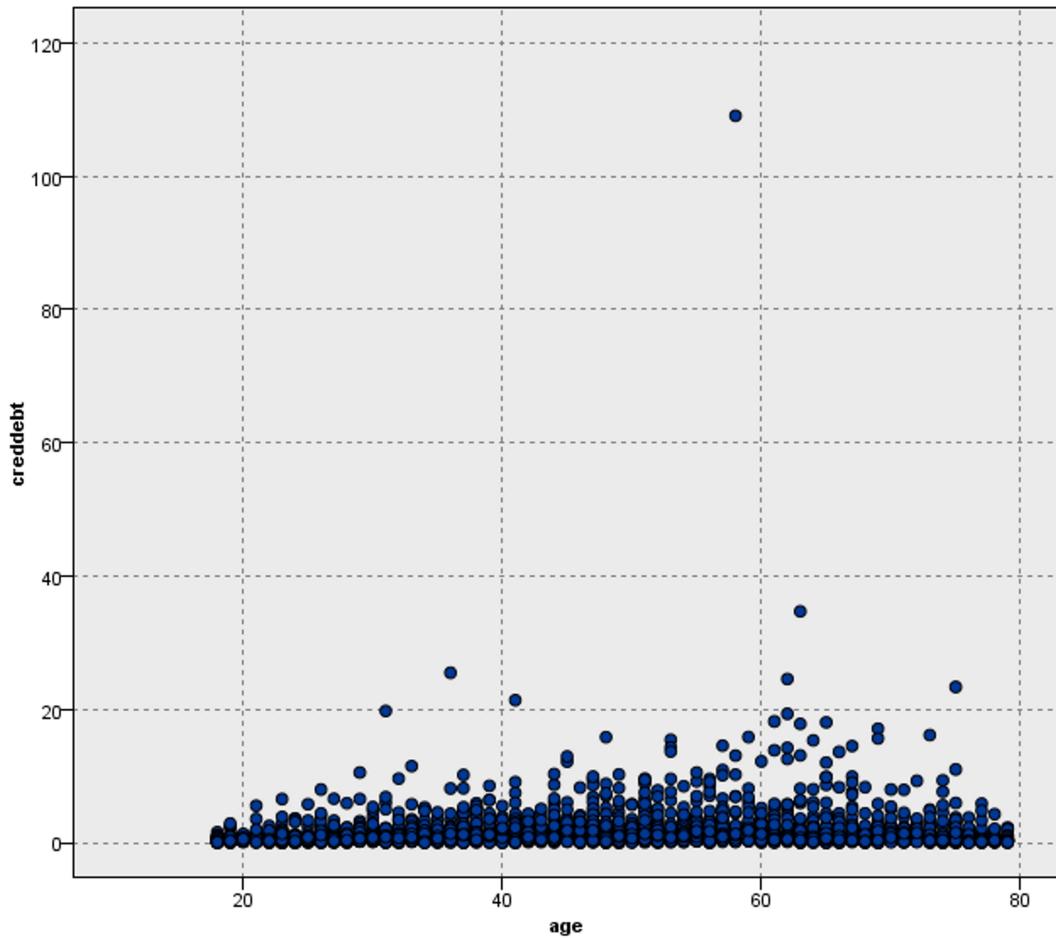


Question 9.

Age - income



Age - credit dept



Income - credit debt

