3/12/2019 Code: Tutorial 5 Q2.sas

```
* KHOONG WEI HAO ST2137 Tutorial 5 T03;
* Q2(a);
proc format;
    value $stresslvl "H" = "High"
          "M" = "Moderate"
          "L" = "Low";
    value $comtime "S" = "Short, Under 15 minutes"
          "M" = "Moderate, 15-45 minutes"
          "L" = "Long, Over 45 minutes";
data t5q2;
    infile "~/data/stress.txt" firstobs=2;
    input stress $ time $;
    format stress $stresslvl.
           time $comtime.;
proc freq data=t5q2;
    title "Chi-square test for the related samples";
    tables stress*time/chisq;
run;
* Ans: H 0: Stress level and commuting time are independent. Since the
observed Chi-square = 9.8311 > Chi-square 0.05(4) = 9.48 or p-value = 0.034,
reject H 0.;
* Q2(b);
proc sgpanel data=t5q2;
    panelby time;
    vbar stress/group=stress;
run;
```