

ATUS Exercise: Time Use Variables and Weekday and Weekend Time Diaries

Learning goals

- Use time of day filter to build time use variables
- Use who with filter to build time use variables
- Understand when the diary day begins and ends and the implications for night time activities
- Practice using an existing time use variable as a template for a new time use variable

Summary

In this exercise you will create several time use variables of time spent exercising by time of day and whether the person was alone or in the company of others. You will get experience creating new time use variables, practice applying time of day and who with filters, and understand implications of diary start and end times for time use variables near the beginning and end of the time diary. You will generate estimates of average time per day spent exercising for men and women aged 25 to 64 during 2006.

Part 1: Browse time use variable documentation and create time use variables in ATUS-X

1. Begin creating a time use variable and review documentation. *Hint*: click on the “create time use variable” button in the extract system.
2. What is the default time range for a time use variable?

3. Is it possible to create a single time use variable that includes time spent between 6pm and 6am?

4. How might you create a time use variable that spans the 6pm to 6am period?

5. Is “any” or “all” the appropriate choice to make if you want to create a time use variable that is done with someone, but it does not matter who?

6. Create an extract using 2006 data, respondent age and sex, day of the week, and WT06. You will also need to create a minimum of eight time use variables to indicate the timing of exercise alone and with others. For the purposes of this exercise, exercise includes any activity in the activity category of "Participating in Sports, Exercise, or Recreation" (second tier activity category 130100). The time use variables you should create, *distinguishing between exercise done alone and exercise done with others*, are:
 - Morning exercise (6am to noon)
 - Afternoon exercise (noon to 6pm)
 - Night exercise (6pm to 6am) (note that two time use variables must be created and summed)
 - Exercise between 6pm and 4am
 - Exercise between 4am and 6am



Part 2: Generate estimates and populate table

Minutes per day spent exercising, by sex, day of week and time of day, 2006

Sex, Day and Time of Day	Minutes per Day Spent Exercising		
	Total	Alone	With Others
Men (age 25-64)			
Total			
Morning (6 a.m. to noon)			
Afternoon (noon to 6 p.m.)			
Night (6 p.m. to 6 a.m.)			
Monday-Friday			
Morning (6 a.m. to noon)			
Afternoon (noon to 6 p.m.)			
Night (6 p.m. to 6 a.m.)			
Saturday			
Morning (6 a.m. to noon)			
Afternoon (noon to 6 p.m.)			
Night (6 p.m. to 6 a.m.)			
Sunday			
Morning (6 a.m. to noon)			
Afternoon (noon to 6 p.m.)			
Night (6 p.m. to 6 a.m.)			
Women (age 25-64)			
Total			
Morning (6 a.m. to noon)			
Afternoon (noon to 6 p.m.)			
Night (6 p.m. to 6 a.m.)			
Monday-Friday			
Morning (6 a.m. to noon)			
Afternoon (noon to 6 p.m.)			
Night (6 p.m. to 6 a.m.)			
Saturday			
Morning (6 a.m. to noon)			
Afternoon (noon to 6 p.m.)			
Night (6 p.m. to 6 a.m.)			
Sunday			
Morning (6 a.m. to noon)			
Afternoon (noon to 6 p.m.)			
Night (6 p.m. to 6 a.m.)			



Part 1 Answers: Browse time use variable documentation and create time use variables in ATUS-X

1. Begin creating a time use variable and review documentation. *Hint*: click on the “create time use variable” button in the extract system.
2. What is the default time range for a time use variable? 4am to 4am
3. Is it possible to create a single time use variable that includes time spent between 6pm and 6am? No. The time diary only goes from 4am to 4am.
4. How might you create a time use variable that spans the 6pm to 6am period? You must create two time use variables and add them together. The first should span 6pm to 4am and the second should span 4am to 6am.
5. Is “any” or “all” the appropriate choice to make if you want to create a time use variable that is done with someone, but it does not matter who? any
6. Create an extract using 2006 data, respondent age and sex, day of the week, and WT06. You will also need to create a minimum of eight time use variables to indicate the timing of exercise alone and with others. For the purposes of this exercise, exercise includes any activity in the activity category of "Participating in Sports, Exercise, or Recreation" (second tier activity category 130100). The time use variables you should create, *distinguishing between exercise done alone and exercise done with others*, are:
 - Morning exercise (6am to noon)
 - Afternoon exercise (noon to 6pm)
 - Night exercise (6pm to 6am) (note that two time use variables must be created and summed)
 - Exercise between 6pm and 4am
 - Exercise between 4am and 6am



Part 2 Answers: Generate estimates and populate table

Minutes per day spent exercising, by sex, day of week and time of day, 2006

Sex, Day and Time of Day	Minutes per Day Spent Exercising		
	Total	Alone	With Others
Men (age 25-64)			
Total			
Morning (6 a.m. to noon)	5.25	2.93	2.32
Afternoon (noon to 6 p.m.)	6.52	2.35	4.17
Night (6 p.m. to 6 a.m.)	5.69	1.84	3.86
Monday-Friday			
Morning (6 a.m. to noon)	4.23	2.69	1.54
Afternoon (noon to 6 p.m.)	4.73	2.26	2.47
Night (6 p.m. to 6 a.m.)	6.03	2.14	3.89
Saturday			
Morning (6 a.m. to noon)	7.92	3.58	4.35
Afternoon (noon to 6 p.m.)	11.02	2.81	8.21
Night (6 p.m. to 6 a.m.)	7.04	1.54	5.50
Sunday			
Morning (6 a.m. to noon)	7.63	3.46	4.17
Afternoon (noon to 6 p.m.)	10.90	2.28	8.62
Night (6 p.m. to 6 a.m.)	2.63	0.60	2.02
Women (age 25-64)			
Total			
Morning (6 a.m. to noon)	3.77	1.77	1.99
Afternoon (noon to 6 p.m.)	3.61	0.97	2.64
Night (6 p.m. to 6 a.m.)	3.08	0.86	2.22
Monday-Friday			
Morning (6 a.m. to noon)	3.62	1.91	1.72
Afternoon (noon to 6 p.m.)	2.89	0.99	1.89
Night (6 p.m. to 6 a.m.)	3.42	1.04	2.38
Saturday			
Morning (6 a.m. to noon)	4.24	1.43	2.81
Afternoon (noon to 6 p.m.)	4.77	0.66	4.11
Night (6 p.m. to 6 a.m.)	2.46	0.23	2.23
Sunday			
Morning (6 a.m. to noon)	3.99	1.47	2.52
Afternoon (noon to 6 p.m.)	6.10	1.18	4.92
Night (6 p.m. to 6 a.m.)	1.99	0.62	1.37

