Lab 17 Some of these problems may be more challenging than others. Please feel free to work with others, attend office hours, or post on the course discussion forum if you need help. While collaboration with other students is encouraged, each student is responsible for submitting his or her own work. This assignment should be submitted in one well-commented SAS program. For any questions that require a written answer, do so in the SAS comments. Be sure to re-name the uploaded SAS scripts according to the naming convention LastnameFirstinitial Lab#.sas (e.q., PileggiS_Lab17.sas).

Use the 2012 Olympic Medalists data set 02012.sas7bdat for the following exercises (this data set name starts with an "oh" and not a zero). *Example* output is provided on the last pages.

- 1. Create a SAS library to access the O2012.sas7bdat.
- 2. While for certain sports athletes peak at younger ages, in some sports there is more variability in the age of athletes. Using PROC SQL, create a summary of the olympics data by sport that
 - (a) displays the sport name
 - (b) displays the number of medalists that participated in each sport
 - (c) displays the standard deviation of athlete's age for each sport
 - (d) is sorted by standard deviation in descending order

Which sport has the largest variability in age? Note your findings in a comment in your SAS code.

- 3. Suppose all Olympic medalists of the same country are traveling together and need to get on an elevator that has a 2000kg weight limit. Which countries could fit all of their medalists on this elevator? Using PROC SQL, create a summary of the olympics data by country that
 - (a) displays the country name
 - (b) displays the number of medalists for each country
 - (c) sums the total weight of all medalists per country
 - (d) creates a new variable called **elevator** which has a value of "yes" if the total weight is less than or equal to 2000, and "no" otherwise; make sure that countries with a missing value for total weight also have a missing value for **elevator**
 - (e) is sorted by total weight in descending order

In examining the output, how many countries wouldn't be able to put all of their medalists on the elevator because of the weight limit? Note your findings in a comment in your SAS code.

- 4. Using PROC SQL, re-create the table from the previous two labs where you summarized the olympics data by country. Display the following variables:
 - (a) country
 - (b) number of medalists in each country
 - (c) total number of medals won in each country
 - (d) average number of medals won per athlete in each country
 - (e) maximum number of medals won per athlete in each country
 - (f) average age of medalists in each country
 - (g) average weight of medalists in each country
 - (h) percent of medalists that are female in each country
 - (i) percent of medalists that are male in each country

Hint: For the last two variables regarding the percent of males and the percent of females, use a CASE statement within a SUM expression such as

SUM(CASE WHEN condition THEN value1 ELSE value2 END) AS newvariable

Question 2

Sport	N	sd_age
Equestrian	16	9.439059
Shooting	28	7.440416
Cycling - Road	8	5.655276
Canoe Slalom	15	4.730851
Rowing	117	4.637524
Fencing	24	4.247548
Badminton	5	4.159327
Diving	23	4.094728
Archery	22	3.859267
Swimming	97	3.815578
Cycling - Track	15	3.81351
Judo	53	3.611082
Gymnastics - Artistic	29	3.572955
Weightlifting	29	3.034287
Cycling - Road, Cycling - Track	2	2.828427
Table Tennis	6	2.065591
	3	1.527525
Trampoline	3	0
Cycling - Mountain Bike, Cycling - Track	1	

Question	3

United States of America 61 4373 no Great Britain 45 3196 no Germany 38 3025 no People's Republic of China 50 2911 no France 27 2078 no Canada 25 1944 yes Australia 25 1829 yes Russian Federation 29 1741 yes Republic of Korea 19 1335 yes Japan 22 1215 yes Netherlands 17 1191 yes New Zealand 14 1106 yes Italy 14 1069 yes Denmark 7 537 yes Ukraine 7 478 yes South Africa 6 434 yes Slovenia 4 324 yes Slovenia 4 324 yes Remania 10	Country	N	sum_weight	elevator
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Qatar 1 70 yes Georgia 1 66 yes Lithuania 1 64 yes Indonesia 1 62 yes Thailand 1 58 yes Singapore 1 57 yes Azerbaijan 1 56 yes	Egypt	1	82	yes
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Thailand 1 58 yes Singapore 1 57 yes Azerbaijan 1 56 yes	Lithuania	1	64	yes
Singapore 1 57 yes Azerbaijan 1 56 yes	Indonesia	1	62	yes
Azerbaijan 1 56 yes	Thailand	1	58	yes
Azerbaijan 1 56 yes	Singapore	1	57	
	Azerbaijan	1	56	-
	Republic of Moldova	1	53	

Country	N	total_sum	total_mean	total_max	ave_age	ave_weight	pct_female	pct_male
Australia	25	32	1.28	4	24.4	73.2	76.0%	24.0%
Azerbaijan	1	1	1.00	1	18.0	56.0	0.0%	100%
Belarus	4	4	1.00	1	29.5	68.3	75.0%	25.0%
Belgium	2	2	1.00	1	26.0	61.0	50.0%	50.0%
Brazil	5	5	1.00	1	23.4	81.6	40.0%	60.0%
Canada	25	25	1.00	1	28.2	77.8	56.0%	44.0%
Colombia	3	3	1.00	1	26.7	64.7	33.3%	66.7%
Croatia	4	4	1.00	1	23.5	94.0	0.0%	100%
Cuba	5	5	1.00	1	26.4	78.0	40.0%	60.0%
Czech Republic	2	2	1.00	1	27.0	85.5	0.0%	100%
Democratic People's Republic of Korea	5	5	1.00	1	23.0	57.2	60.0%	40.0%
Denmark	7	7	1.00	1	29.1	76.7	14.3%	85.7%
Egypt	1	1	1.00	1	21.0	82.0	0.0%	100%
France	27	33	1.22	3	25.1	77.0	48.1%	51.9%
Georgia	1	1	1.00	1	20.0	66.0	0.0%	100%
Germany	38	40	1.05	2	27.5	81.8	28.9%	71.1%
Great Britain	45	44	1.00	1	28.4	81.9	24.4%	73.3%
Greece	1	1	1.00	1	25.0	90.0	0.0%	100%
Hungary	4	4	1.00	1	26.3	68.8	25.0%	75.0%
India	2	2	1.00	1	27.5		0.0%	100%
Indonesia	1	1	1.00	1	23.0	62.0	0.0%	100%
Italy	14	17	1.21	2	29.4	76.4	35.7%	64.3%
Japan Sapan	22	24	1.09	2	23.6	67.5	40.9%	59.1%
Kazakhstan	4	4	1.00	1	27.3	64.8	75.0%	25.0%
Lithuania	1	1	1.00	1	15.0	64.0	100%	0.0%
Mexico	6	6	1.00	1	20.2	53.2	66.7%	33.3%
Mongolia	2	2	1.00	1	27.0	86.5	0.0%	100%
Netherlands	17	18	1.06	2	27.4	70.1	94.1%	5.9%
New Zealand	14	14	1.00	1	32.5	79.0	28.6%	71.49
Norway	2	2	1.00	1	25.0		0.0%	100%
Pakistan	1				24.0		0.0%	0.0%
People's Republic of China	50	53	1.06	3	23.0	66.2	48.0%	52.0%
Poland	3	3	1.00	1	27.3	65.3	100%	0.0%
Qatar	1	1	1.00	1	41.0	70.0	0.0%	100%
Republic of Korea	19	22	1.16	2	26.8	70.3	47.4%	52.6%
Republic of Moldova	1	1	1.00	1	19.0	53.0	100%	0.0%
Romania	10	10	1.00	1	22.3	63.2	80.0%	20.0%
Russian Federation	29	32	1.10	2	23.7	75.7	44.8%	55.2%
Serbia	1	1	1.00	1	34.0	85.0	0.0%	100%
Singapore	1	1	1.00	1	25.0	57.0	100%	0.0%
Slovakia	4	4	1.00	1	31.0	72.0	25.0%	75.0%
Slovenia	4	4	1.00	1	38.0	81.0	25.0%	75.0%
South Africa	6	6	1.00	1	24.5	72.3	0.0%	1009
Spain	3	2	1.00	1	25.3	57.5	66.7%	0.0%
Sweden	2	2	1.00	1	41.5	70.0	50.0%	50.0%
Taipei (Chinese Taipei)	1	1	1.00	1	21.0	52.0	100%	0.09