

BIOS 600 · Quiz 1.2: Data Types

Fall 2011

1. **Honor Pledge:** I have neither given nor received unauthorized aid on this assignment.
(Sign and print your name.)

2. Consider the following dataset with 7 variables. From each patient in the (hypothetical) study, researchers collected the individual's age, income, race, sex, college status, HbA1c value, and a health score. The college variable records the patient's response to the question: "Did you graduate from college?". HbA1c is the average glucose concentration measured from blood tests. It is reported as a percentage. The health score is a relative measure of overall health, and is reported as a number between -1 and 1.

The first six observations and a summary table are found on page 2. Using the clues from the data summary table and the first six observations from the dataset, label each variable as nominal, ordinal, interval, or ratio.

Variable	Write your answer here
AGE	
INCOME	
RACE	
COLLEGE	
HEALTH	
HBA1C	
SEX	

Table 1: First 6 Observations

	AGE	INCOME	RACE	COLLEGE	HEALTH	HBA1C	SEX
1	(30,45]	(0,25]	3	2	-0.13	9.62	M
2	(30,45]	(0,25]	1	2	0.92	8.40	M
3	(45,60]	(0,25]	3	2	0.62	5.02	M
4	(45,60]	(25,50]	4	1	0.12	0.62	F
5	(18,30]	(50,100]	4	1	-0.53	6.19	M
6	(30,45]	(25,50]	5	1	0.74	0.72	M

Table 2: Summary Table of Fake Dataset

Variables	%	Min	Mean	Max
HEALTH (score)		-0.99	-0.09	0.94
HBA1C (%)		0.08	6.43	11.95
AGE				
(18,30]	0.23			
(30,45]	0.35			
(45,60]	0.35			
(60,65]	0.07			
INCOME				
(0,25]	0.36			
(25,50]	0.26			
(50,100]	0.29			
(100,259]	0.09			
RACE				
Black	0.25			
White	0.15			
Asian	0.22			
Pacific Islander	0.21			
American Indian	0.17			
COLLEGE				
Yes	0.51			
No	0.49			
SEX				
F	0.46			
M	0.54			
Total (N=100 all complete)				