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Scales of measurement and type of variables **(Important)**

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Type of measurement scale

Q1) Name type of measurement scale for the following :

Measurement scale	Type
Education status (Literate / Illiterate)	Nominal scale
Outcome of a newborn baby (Boy / Girl)	Nominal scale
Body mass Index (weight(kg)/Height ² (m))	Ratio scale
Blood sugar level (Quantitative variable)	Ratio scale
Cholesterol level (Quantitative variable)	Ratio scale
Immunization status of the child (Yes / No)	Nominal scale
Grades of Exam Result (A+,A,B+,B, etc.,)	Ordinal scale

Type of variable

Q2) A sample data of a study is given below. Name the type of variable:

Pt ID	Age (years)	sex	Marital status	Education	BMI	CD4 cell count	Viral load	ESR at 1 hour
1	34	1	1	1	20.1	351	728000	35
2	30	2	1	1	17.8	33	11300	25
3	48	2	2	1	25.1	179	53900	30
4	40	1	1	2	17.6	235	498000	34
5	36	1	1	1	18.1	70	7360	19
6	25	1	2	2	17.3	86	400	10
7	29	2	1	1	16.9	228	750000	39
8	25	1	1	2	17.3	67	83400	22
9	38	2	2	1	22.5	27	14300	23
10	40	1	2	2	17.5	41	290000	30

Sex (1=Male, 2=Female); Marital status (1=single, 2=married); Education (1=illiterate, 2=literate)

QLV =Qualitative variable
QNV= Quantitative variable

Age (years)	Sex	Marital status	Education
QNV (Discrete)	QLV (Nominal)	QLV (Nominal)	QLV (Nominal)
BMI	CD4 cell count	Viral load	ESR at 1 hr
QNV (Continuous)	QNV (Discrete)	QNV (Discrete)	QNV (Discrete)

Type of variables

Q3) Classify the following variables as:

- **Quantitative** (discrete or continuous).

- **Qualitative** (ordinal or nominal).

Variable	Type
White blood cells per deciliter of whole blood	Quantitative variable (continuous)
Leukemia rates in geographic regions (cases per 100,000 people)	Quantitative variable (discrete)
Presence of type II diabetes mellitus (yes or no)	Qualitative variable (nominal)
Body weight (kilograms)	Quantitative variable (continuous)
Low-density lipoprotein level (mg/dl)	Quantitative variable (continuous)
Grade in course coded : A, B, C, D or F	Qualitative variable (ordinal)
Course credit (pass or fail)	Qualitative variable (nominal)
Satisfaction: 1=very satisfied, 2= satisfied, 3= neutral, 4= unsatisfied, 5= other	Qualitative variable (ordinal)
Treatment group : 1 = active treatment, 2 = placebo	Qualitative variable (nominal)
The number of road accidents in KSA during Ramadan month.	Quantitative variable (discrete)
The number of boys in a family	Quantitative variable (discrete)
The length of time that a cancer patient and survives after diagnosis.	Quantitative variable (either discrete or continuous ¹)
The number of previous miscarriages an expectant mother had.	Quantitative variable (discrete)

1. It depend on how data is presented. E.g: continuous: 1.5 months, discrete: 45 days.



Thank you for checking our work!

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