levels of Measurements: 2) Ordinal Scale data: - Ranking and order matter Scale of measurement of data -> difference cannot be measured 1 Nominal Scale data Example: 2 ordinal Scale data qualification 2 3 Internal Scale data Phd 1st (4) Ratio Scale data we can arrigh sont. Difference between 1 Nominal Scale data: Marters 2nd degree carmet be -> qualitatine / categorical variable Brown 5th measured. -> Eg: Grender, colors, labels BSC 4th - orster does not matter. we Marts 2 will be able to assign rank to 100 we cam arrigh nonts. 15£ specific category. 90 Difference between can Example: Survey of farrourite terronized. 4th 65 Color [10] But if we consider ? 70 30g Storets their difference R [5] 50% 5th 30 Running Race ] B [3] 30% Y [2] 20% cue focus more on count, 5 sec 2 nd we can assign sants. percentage, distribution. Difference between 7 sec 44 time can be measured But if we complete nonto 6 her 382 time comment be meaning 4 rec Ist sth loser considering a data as ordinal is defendent on problem statement

3) Internal Scale data -> Ranking and order matters -> difference can be measured (excluding ratio) -> Does not have "o" storting nalue. Example: Temporature 2 are cam assign sant. 30F Difference con be GOF 2nd measured. 80F 3rd Taking ratio do not mate sense. 90F 4th are com also have negative temperatures. (4) Rotio Scale data -> Ramking and order matters -> difference and ratio are measured - It does have a "o" starting - point we can arrigh stank. Example & difference between morts 5th Com he measured. 1st Taking notio do mote 100 and genne. 90 4th least meant marts, com 3rd be O. No regotive 60 marks

Internal arrignment: determine which scale can be weed:

- (a) length of different rivers Ratio 5 cole data
- (F) Marital Status Nominal Scale data
- € IQ measurement Ratio Scale dottor