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Application
Data exploration & Summarization
1) Data complete building & validation  3) Model building & validation  3) Skalishical - Analysis - Sample date - population date-
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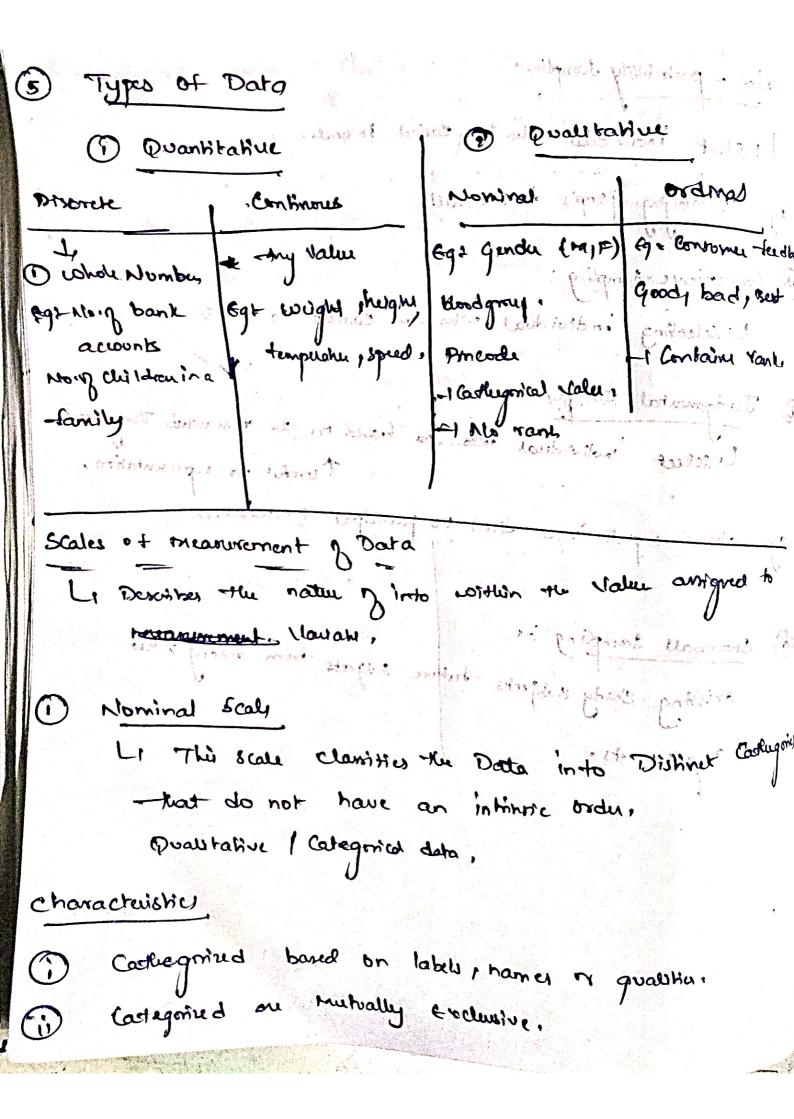
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sample date Characteristic of inf haracteristics! ( Subset of population ) Complete set Parameter (V) stability of a con A Noneital Yales. Sommare A numerical value summarie dy Sample data Madeste The entire the popular [eg 2 - population vivea, population buiane (B) sample Madance i) population in a school study 3 Random Sampling word Lot a All Bridge enrolled in a school tot they height of student Samply Should be Yandomly Scholed to avold bios! Population man D population in Market Personeth Sample in a school study all Connomer in a city (1) -A group of 50 midut from schor To undustant the purchasing behaviour (B) estimates to stug herque of mulling school. 2). Sample in market research In a medical shidy 3) population Welai - Behaviour - 1 population Au the patient with a specific descan to Shidy the edechivenen jadny. 3) sample medical shidy use ca test the extectivener of the day

Types of sample Techniques to 1) po mobability sampling @ dimple Random sampling -) Every member of the population will has an equal chance of being celulad, Egt selecting people randomly. Poraw maner random from a clan of chidents. 6 systamatic sampling: Le scheet every not member of the population often a wandom
starting point. Egt - Airport - 1 Credit Caid - 5th poston, 15th power, 15th power, Strattted sampling 12 Divide the population into Strata (groups) based on the specitive characteristic & then wondersty sampling from each Egt Divide employees by department in a Company & select a proportional number Iron dept to from a survey Sample,

12-17 100 7 to dirental Age D Clusten sampling Le Divide de population into clarker, Vandomly selecting Clayters, then Sampley are the member from the selected Egr l'andonne selecting serveral school from a dollaret 1 and france schooling and france schooling and france schooling religios incounters. Simple ? 1 Mulh stage Jampling : Combining several Bampling method, usually mooler Scheding Cleater, then randomly Jampling within the Eg + Grandomby Schecking City, each selected city randomby beleching howalide to huvery. 

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4) Ratio scaly:

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