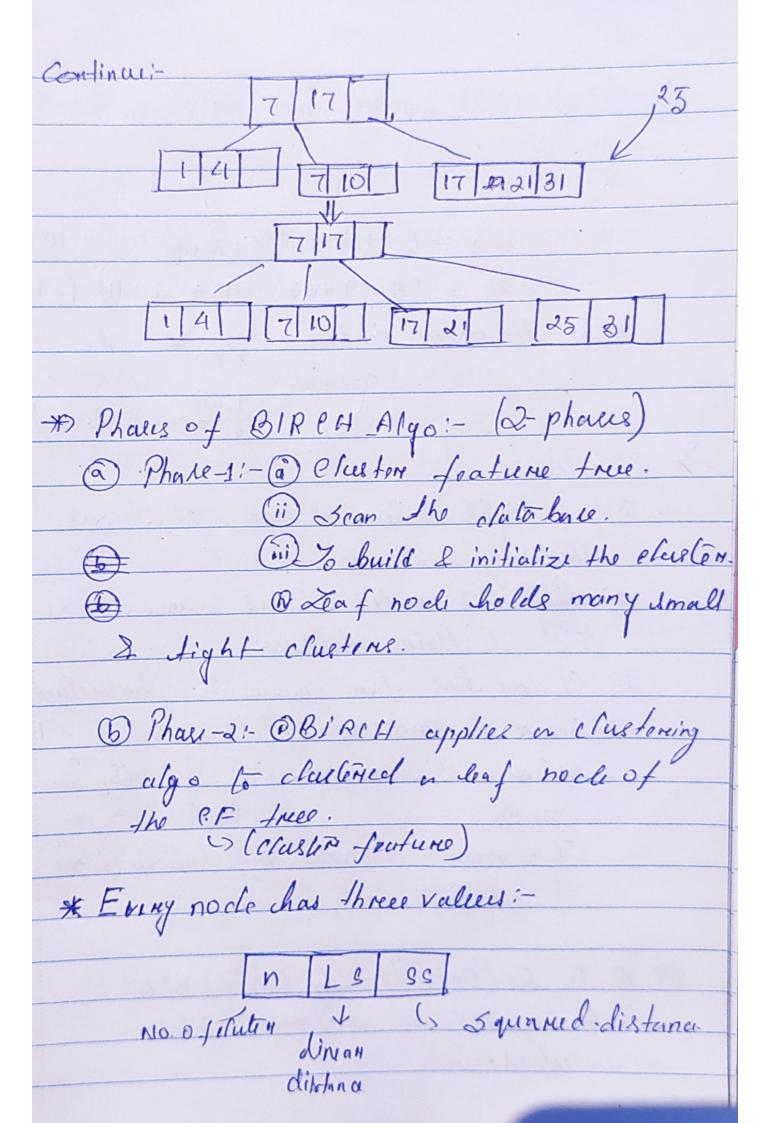
Data Mining. & Warehousing. > Dala, Pathern, Attribute cliscovery: - clutabure -> clutamining tools-)knowledge > Egof data mining: - FD, M, DW, A, MB How data mining is used. (Pointa) Point 2:- Excel to cligital. > Datami Oreigin of clata mining: dalamining Before machine learning / AI algo. * High dimension. -> Data Mining Jasks: - D Classification: - Fish your to water (Eg) (Niw en lity in then clifine one elass) 2) Regression: - Not define to classification. Egi- Binel can fly on not I Yes un no only) 3) classing: - Eg: 1000 olula Shenfind K=10 to every (Many) then final is distance from first 10. & lastly unull clistace are take. 4) Dependencies. (Not all required Coyl) Data Mining Method:--> Why data proporocessing? -> Data Clouning.

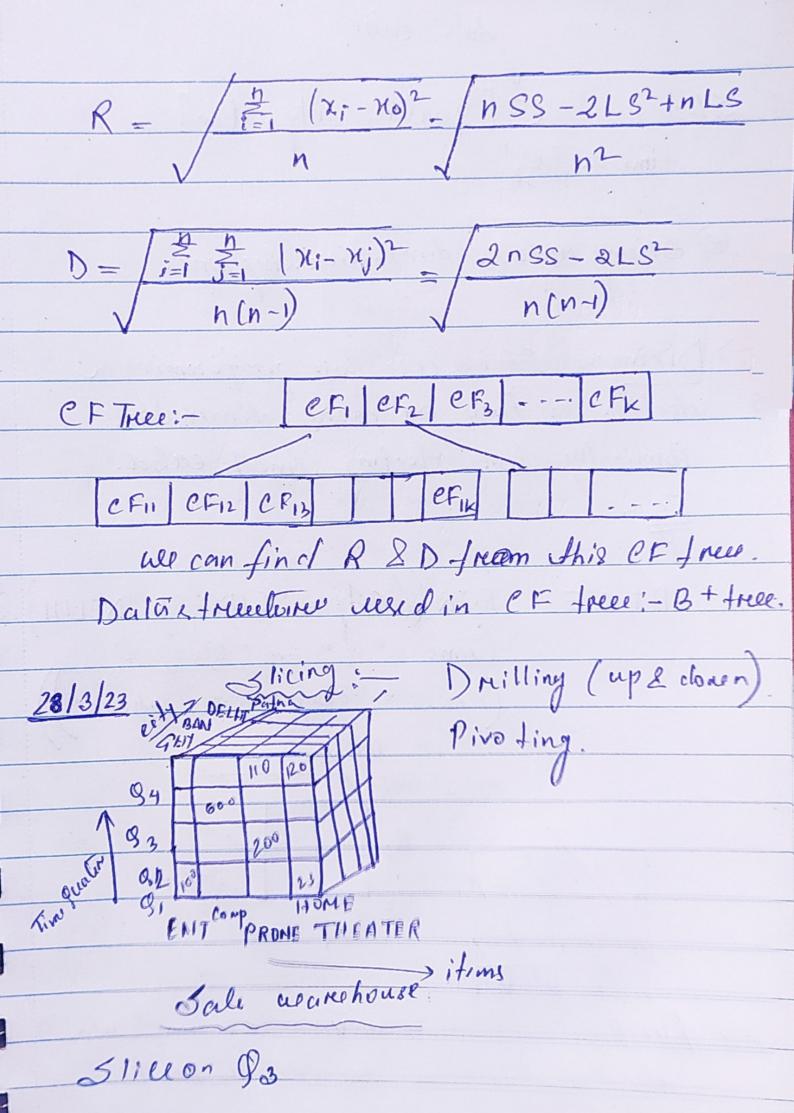
· To classify all have to know the to cartogoring of the items. classification technique on algo: Regrucion, distance, ---. Classification Example: - Grading. · Partitioning based planification Distance Chased classification. Classification lesing Regression Devision Devision Devision Devision Devision Devision Devision Devision 13/3/2023 BIRCH Algorithm: (Hilmanehieal Join.



n=?, LS=2, SS=? \$ (2,5), (3,2), (4,3) LS = (2+3+4, 5+2,+3) = (9,10)35 = (4+9+16, 25+4+9)=(29,30)_Now, the chalere Centre = Los & = No $\gamma_0 = \frac{(9,10)}{3} = (3,3,33)$ * CF Iree: a A hoght balanced trae, it stores Destoring font would stores sums of the of's of their children. CF tree has two parameting branching feeton B and tracked for value T.

Where I B = maximum no. of tog ling

no cle. T2 mayor diameter of subchesters at leaf nodi. okulin around the antroiol. It is measureed as -:



Slice C [qualen, city, item] time = (Q2' D'Slicing reduces dimension by one. Dicing:- It is use for performing a selection on two on more dimenusons. Basically for selecting small eachd. FOR ((City = "GHY" OR "DELHI") & (Time = " (9," ON " (93") & (ETEM = "comp" ON 4 phone") Comp Phone. -> Drilling: - It means moting up & clower along classification townships. herities.

Driling up: - It penforms a cletail to an aggregated Drilling Nowni- It is revorce of dreill up,
if nivigalis from les detail to more detail. * Dreill up/clown => Roll up/clown. Ey: -aRou-up location = 4 fit from Cities to

countries "

C [ITEM, QUARTER, CITIES] (b) Roll aloun From Qualit to month.

On [ITEM, GUARTER, CITIES] sold in 182' in Delhi & GHy) es notestes Protis a representation of the same elate.

