8.2) Data mining refers to the process or mothed that entracts or nines interesting homewhat are patern from clarge amounts of data. Data mining involves an interestion of rather than a simple transformation of techniques ofrom multiple disciplines such as statistics, machine clearning, pattern sucception, data visualization, neural notworks, etc.

8.3) Stages of Data mining operases:

a.) Data cleaning -> data can have many increberant and missing parts, to pandle this

and missing parts, to handle this hard, data cleaning is done. It involves handling of missing data, noisy data ste.

b) Data Integration > It tois to reduce oreduced oredundarray

as much as chossible without

affecting the reliability of the data

c) Data Solection > Thisis the process by which data relevant to analysis is oretrieved from the database.

d) Data Transformation -> it includes normalization, aggregation, generalization etc.

e) Data Mining f) Pattern Evaluation g) Knowledge Representation

8.4) A Rata Marchousing (Dw) is process for collecting and managing data ferom elefferingen spinosof at sessing beiser simes trale sitt it styrens seemisud raidamsafini Ja trevamo apreals a Jasparate by a business or organization It is a tital component of business intolligence that employes analytical techniques on business B. 5 | Data Understanding: Review the datacyon have document it, identify data management and data quality issues. Tooks for this chhose include: stab griscostaglo (1 principally Enisofas (E 4) Verifying Suality a.6) Types of Polationships: 4) one- at - one Rolationship 2) One - to - many Relationship 4 Hany - at - Junay Rolations - at - Junay (E For this, several approaches are: (12) Enimmerbard sipal entempt (I) 2) Statistical Relational Learning (SRL) grining alposph (E a) Propositionalization Multi-view learning