Before we stant aphone en silent mode Feel free 70 ask grestions All doubles woll be answend, so don't wonny. 2 We will have 5 min break -> Please complete cell assignments Doin whatsaff group

Intro to Data Engineering
Agenda
-> Introduction to Course
-> Big Data Story
-> Big Data Story -> What defines Big Data -> Pata Englineer's Role
-> Vata Englineesi's ROLC
Intera 20 DE
Big Parta Anchi Fectore
Data Modelling
5 MireOL
o Hive

-> Map Reduces - Cloud offening -> Spank -> Flink Pay, Pino7 -> Kafka - Abullow

Flighcut -2008 My 29 (17B of storage 273 of data Ventical Scaling Inchesse configuration of connext sy stem Honizontal Scaling 17B Hurd dish 11B

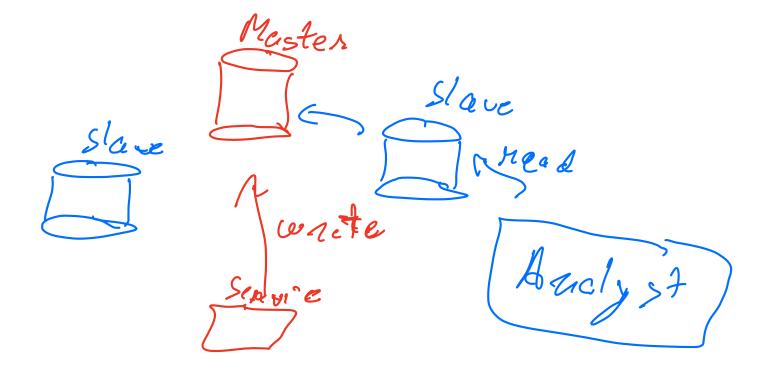
4GB

43

4GB Ram

100's of devices (Leke this J. Clieno Mosal -> Nosel => ACID DRequinement of greny the data

-> Monthly sales - Bist selling data mod = wete Service) Anclast



Mode = Machine = Seurel

Service= Transactional Data Analytics= Analytical Data

Senvice/Tramsactional > 02TP OMysyl DNosgl

Analytical -> OLAP => Begovery => Hive => Spous 02-17 => Dondie placement => Banding Systems => Payment processing

02 \$1

=> Amalytical dashboards

The commendation engine

D Historical data

6 V's of Big Data

1) Volume = 1PB detaldan

2 Variety

Uzen-ed orden-ed product-i'd, date

Btnuctured data

(2) &

E

JSON

"from!: "

"from!: "

" body!: "

"filt."

XML, HTM2

Semi-Sarvetured dato

E) Photo, file, pdf, video Unstructuoned data

3 Velocity => Real 7:me => Botch

9 Value

Whether data is volvable for company

Data es trustworsty

6 Variabelity Inconsistencies Devolving data

OSOftwork Engineer-> Paymonts

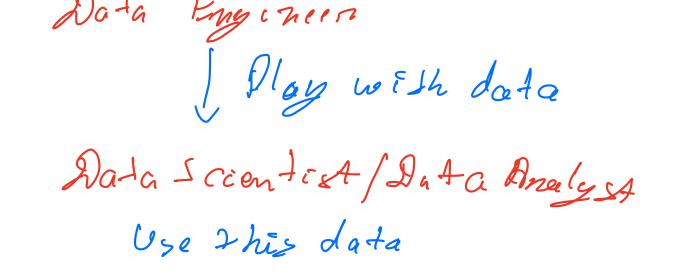
Drata Engineer-> Storethe data,
Manage The data, processed, data qually

Data Scientist-> models on top of data
re commendation

Data Analyst > grey 2227 data.

Software Engineere Data Produce

016



Shills nogvined to become DE

- Inogramming skills -> Python/Java/ Seala
- => SOL ->
- Big Data Toch-> Hodoop, Spank, Hive, Molka. - - -
- => ETZ Tools -> Extract Transforme 2000
- > (lord Platforms Biggney
- DBMS SOL, NOSOL
- 1) Data Modelling Design Schema

DE Interview

-> DE Technologies/Skills

-> Basics of DSA

-> SOL

Soft skills project