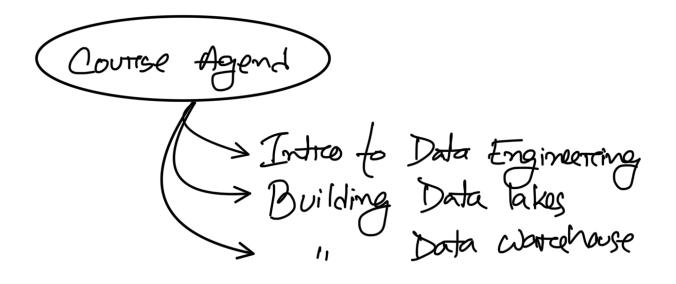
Dota lakes & Data Warrehouse

1. Modernizing Data lakes C Data waterhouse with Google Cloud

2. Building Botton Dorta pipelines on google cloud.
3. Building resilient streaming analytics system on GC

4. Smart Analytics, ML & Al on GC.



Role of Data Engineer

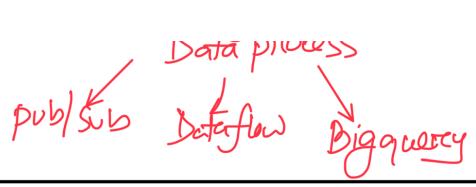
Or. Role (02) Challenges

OD Intro to Digguercy

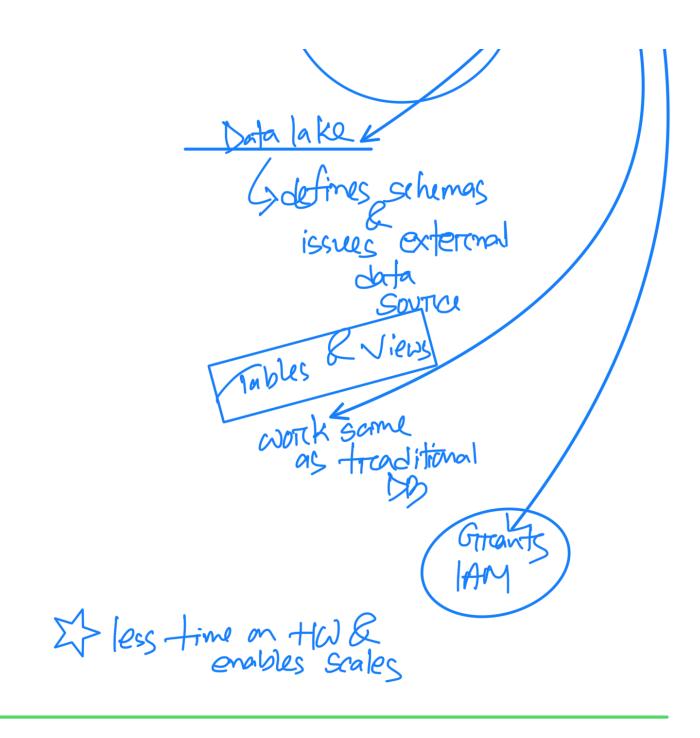
Data lakes & Data ware house

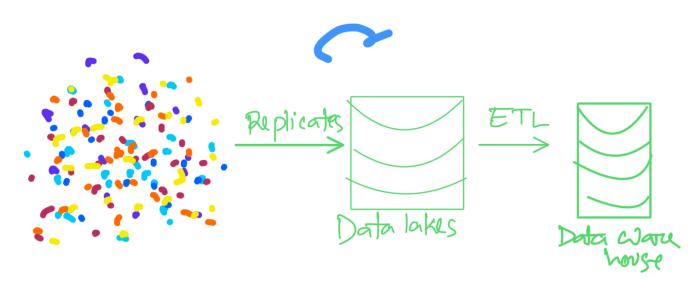
OS Fransactional Databases & Data Whitehouse

Data Engineer -> builds ->data pipelines TOW data -->not useful (maidetestion all types of chita scale to meet demand Support high Harrangh ingestion fine grained acces other tool connect # Backup Replace/ Leconmission -Analytics &ML Jala process > Extract, > Transform Glocaming



Data Celarchouse Storad quercies Structured Computational resources > Query Software Intro Bigguerry Replace are hous





Betwee as a sink for

both Batch &

Stream data

pipelines

Waterhouse Scale to meet

needs

A organized categorized &

access control

A designed of performance

Level of maintenance



CloudSQL manage SQL serveri Postgras MySQL RDBMS

CloudSQL Bigquerry

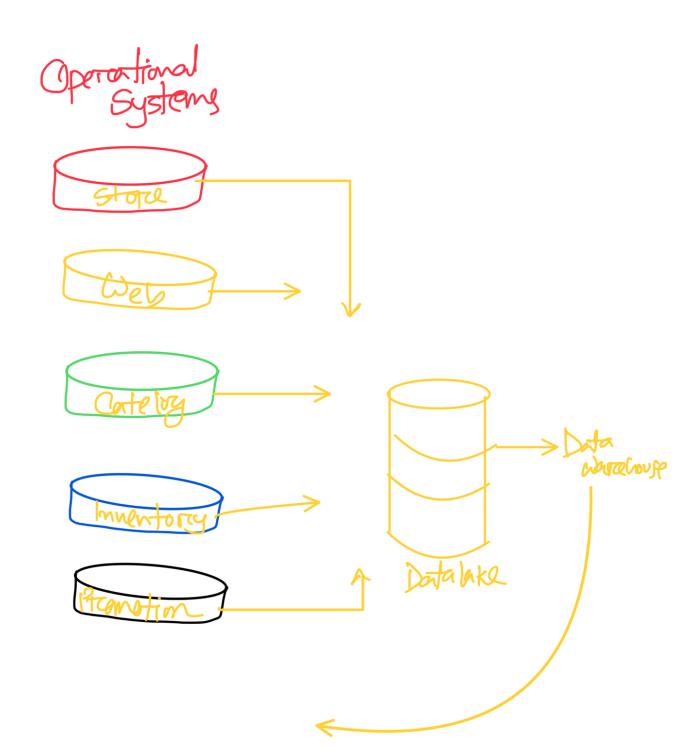
+ GB/TB + PD

+ Backend + Connect external
DD apps

+ Record + Column Based
Storage

Storage

RDBMS->optimized -> Cultates to Records



)

Manage Data

Access

PII -> perisonally

PII -> perisonally

identifiable

educate

end users

Simplify denter discovery out any scale Unified view of all Datusets Data governance foundation.