(,)eek-2 Dafa Warrehouse (Consolidate) Clean, accurate, quercy = fast O GB to PB Decosys visualization & treporting tools

The Later priocessing tools Up to minute data Security & collab.

Orb to PD Digquerry

Digquerry

Decosys & no ops

Lecosys Visualization & treporting tools

"If ETL & data priocessing tools

Up to minute data

ML

Security & collab.

X Data aging X Storage management X fault trecoverry X Querry engine optimization X Handward X Upletes

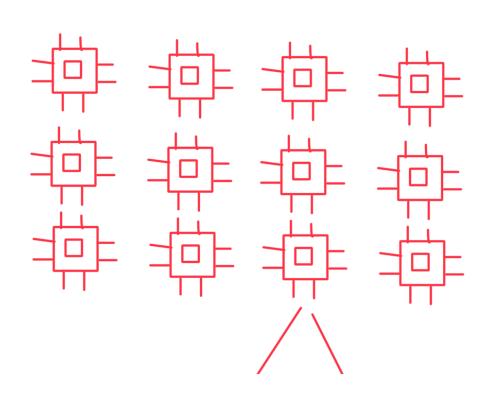
Big quercy = table-orciented (OLAB)

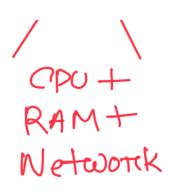
Storage engine Analytic engine

Run length encoding

Dictionary encoding

2000 Slots µ-service arrehitectura





Biggumy Services

Region I multi zone

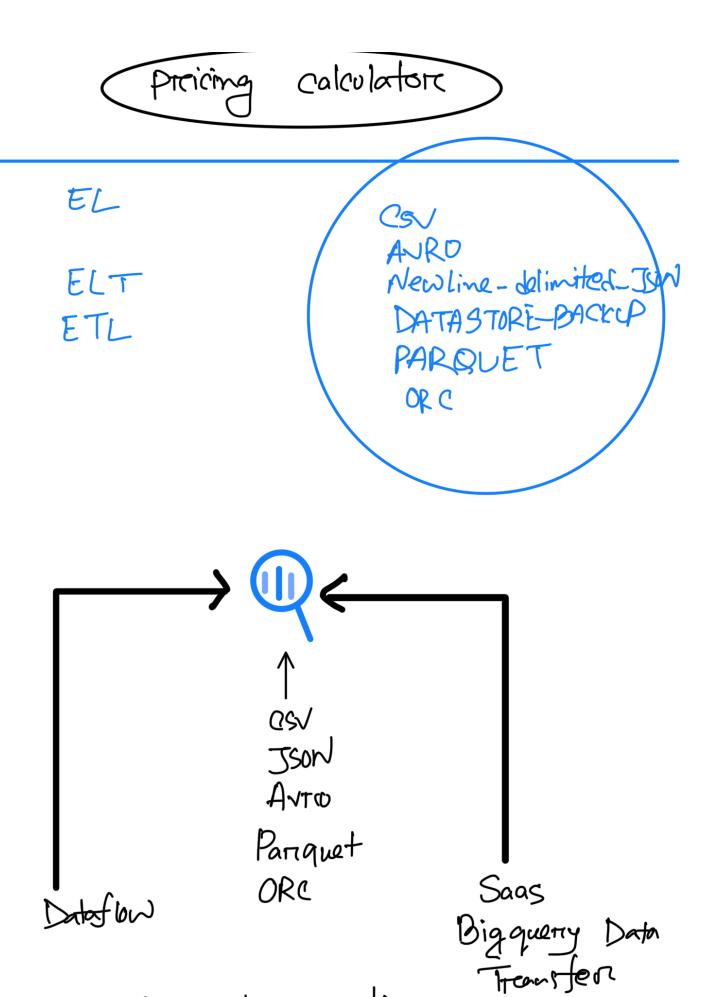
Grough managed enscription key

Prodefined roles row level security

Policy

authorised new

Analytics UI View > virtual table matercialized view SQI



Automate execution
point-in-time -> 7 days

Transferring Jata ->

back-filling

ideal

Support DML statement insert, update, delete, merge

DDL Statement UDF -> user defined function

Proctise

Traw_round

Size_of_bites

taxi-cabs

Bonus quetty

(1.89) Portatilioning

Movie recommendation

Craate Sunction

Schema design

Normalizing data

Denotemalizing data (before loading) Shuffing data

Nested & tropeated -> columns

where the improve and improve afficiency

Gro-Jek 13+ PB

Normalizing data

Joins -> Costly

Data -> repeated

Data >nested >trapeated

ARRAYS > trapeated

STRUCTS > proe Joined fable
in a 1 b

Big quercy > column based

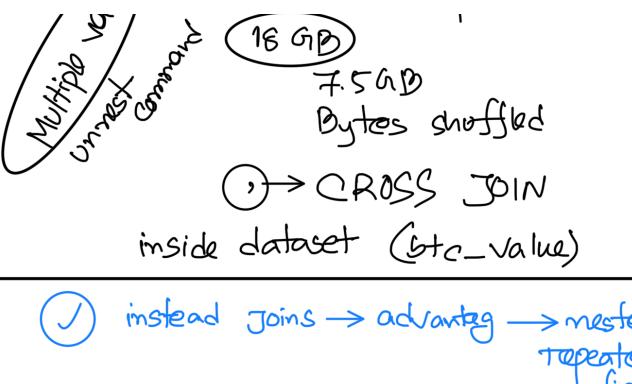
Type > Struct > Record

Arrays > trag where field > Structs

Single table > STRUCTS (many)

nested & topoated

repeated Values Slot time compute



- instead Joins -> advantag -> mested& de notanalizad
- keep dimension table (210 g/s) normalized
 - Denotomalize table > 10 63