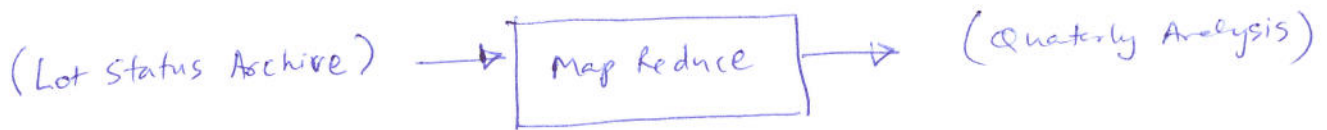


## Map Reduce



use case

lot status dataset  
Given  
Get quarterly analysis for  
 given quarter  
 (YEAR - QUARTER)

MAP

IIP :      < Row Key , I(Column) >

↓

Solid

↳ Timestamp f

↳ ~~occupies~~

free space

OIP : < latid-day-session, occurence >

- Extract date, day, session from time stamp
- Skip records that don't fall in given quarter
- Emit key lotid-day-session  
value ~~occupancy~~ free space

REDUCE

II :  $\langle \text{tolid-day-session, List} \langle \overset{\text{freespace}}{\text{}} \rangle \rangle$

0/8 quarterly analysis (No op  
ie dont write table  
To  
(Cassandra))

- Add up all the <sup>free-space</sup> ~~overflows~~ for given key
- Average out the value for each key (Avg-free-space)
- Split out

Analysis [Quarter] [lotid] [day-session]  
[Avg-free-space]

८९-

eg -  
Analysis [Fall 2010] [10+1] {Monday - Morning} [4]