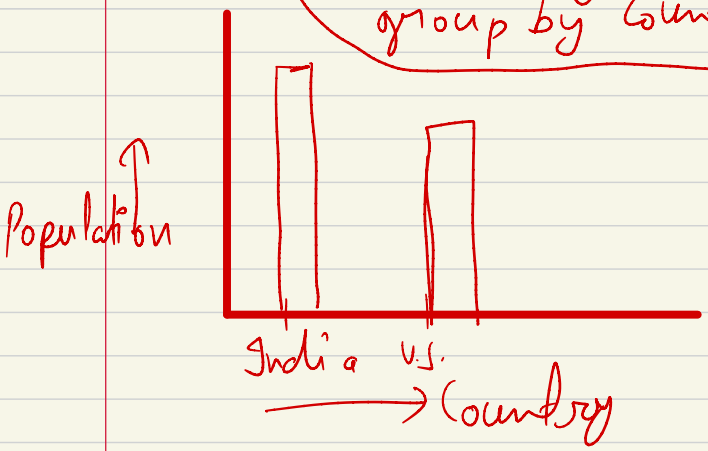
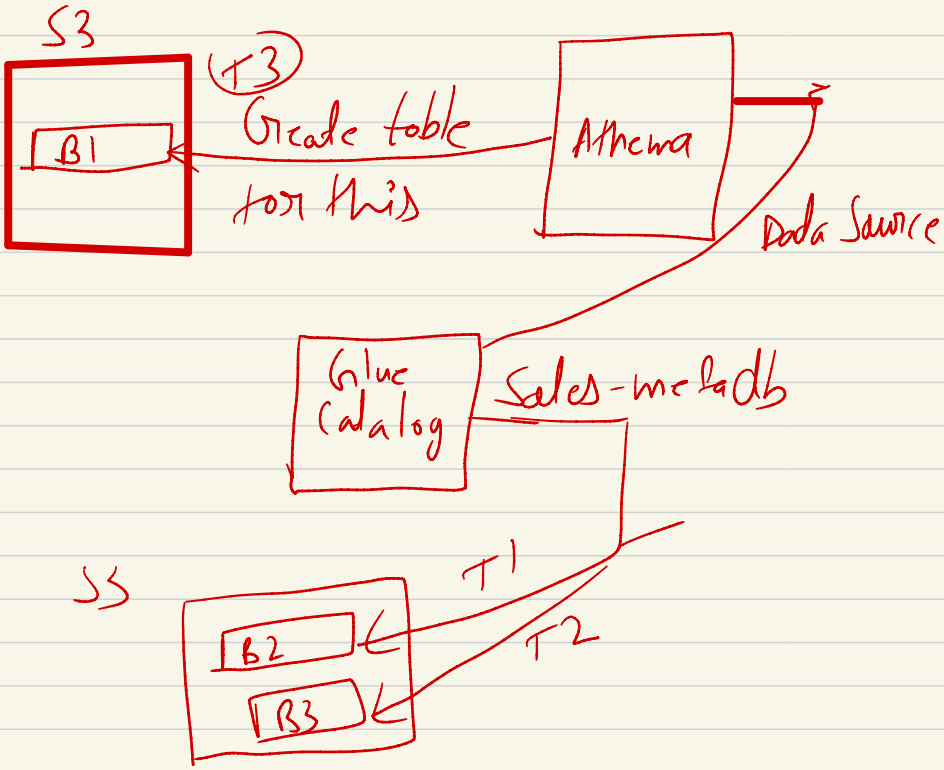
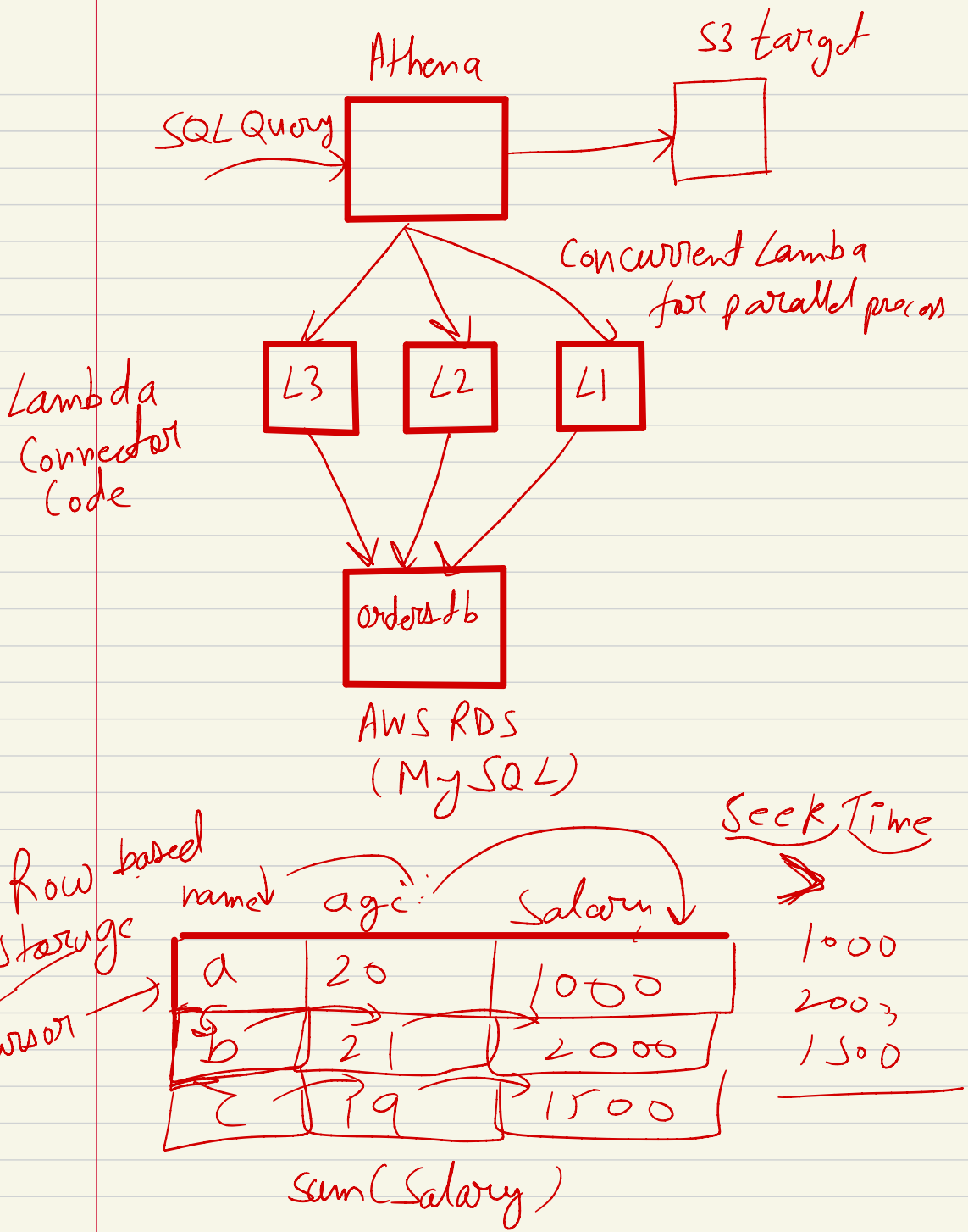
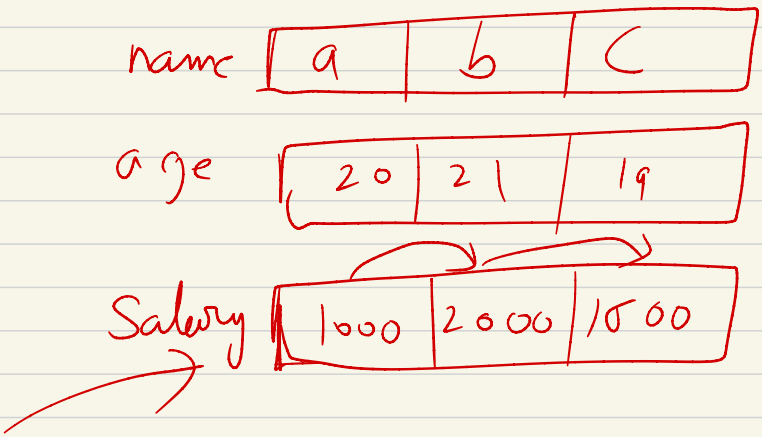
Select country, sum(population)
from country-wise
group by country;



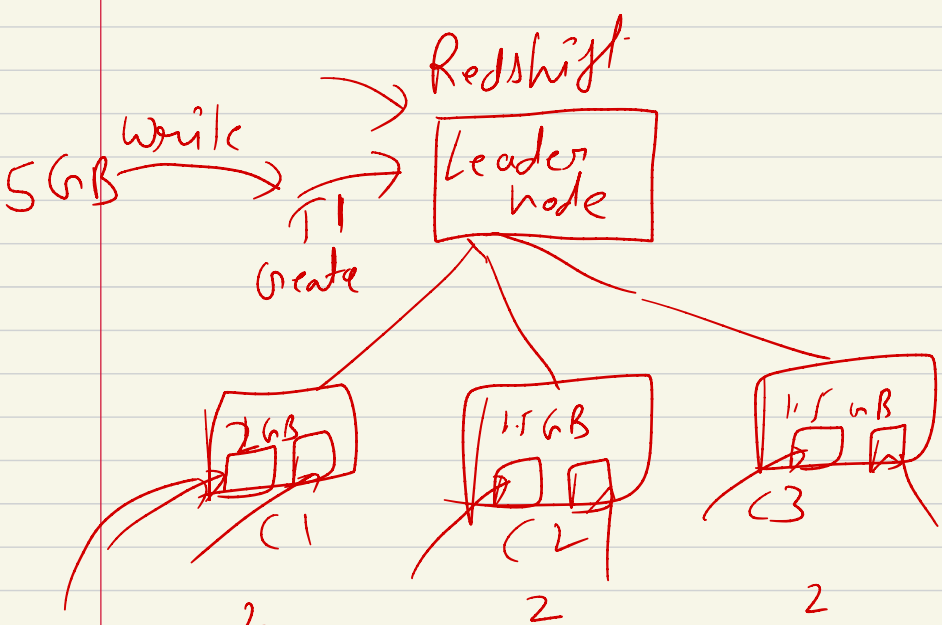


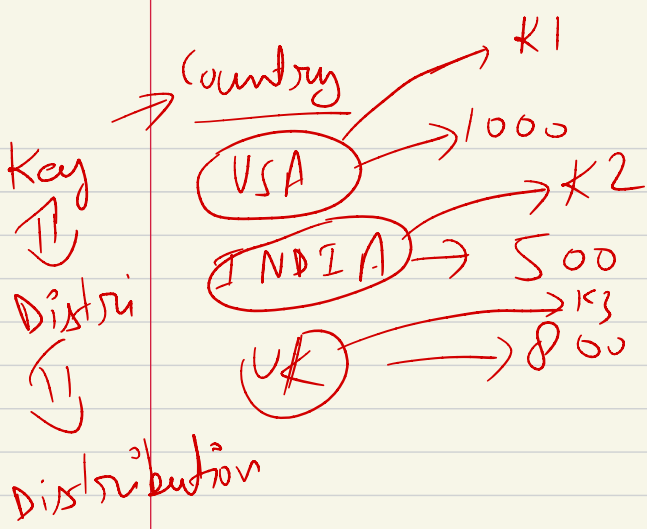

Athena
S3 target
SQL Query
Concurrent Lambda for parallel process
Lambda Connector Code
L3
L2
L1
orders db
AWS RDS (MySQL)
Row based storage
cursor
name
age
Salary
a
20
1000
b
21
2000
c
19
1500
Seek Time
1000
2000
1500
sum(Salary)

Columnar Storage



Sum(Salary)



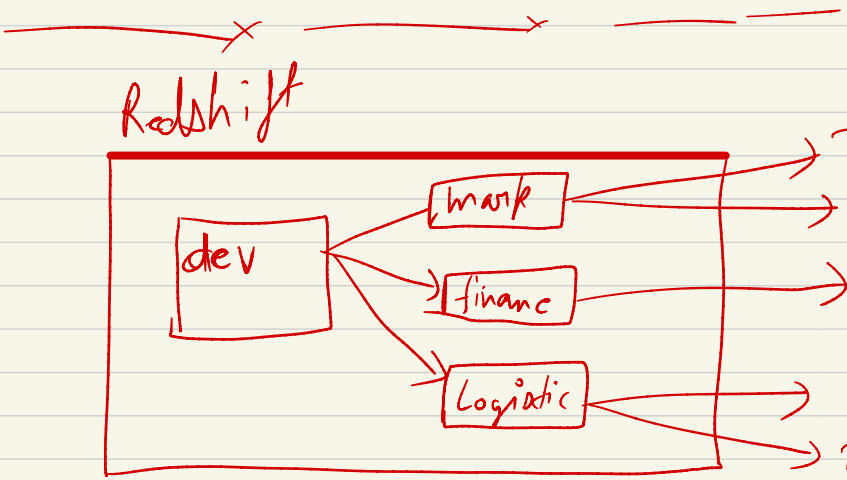


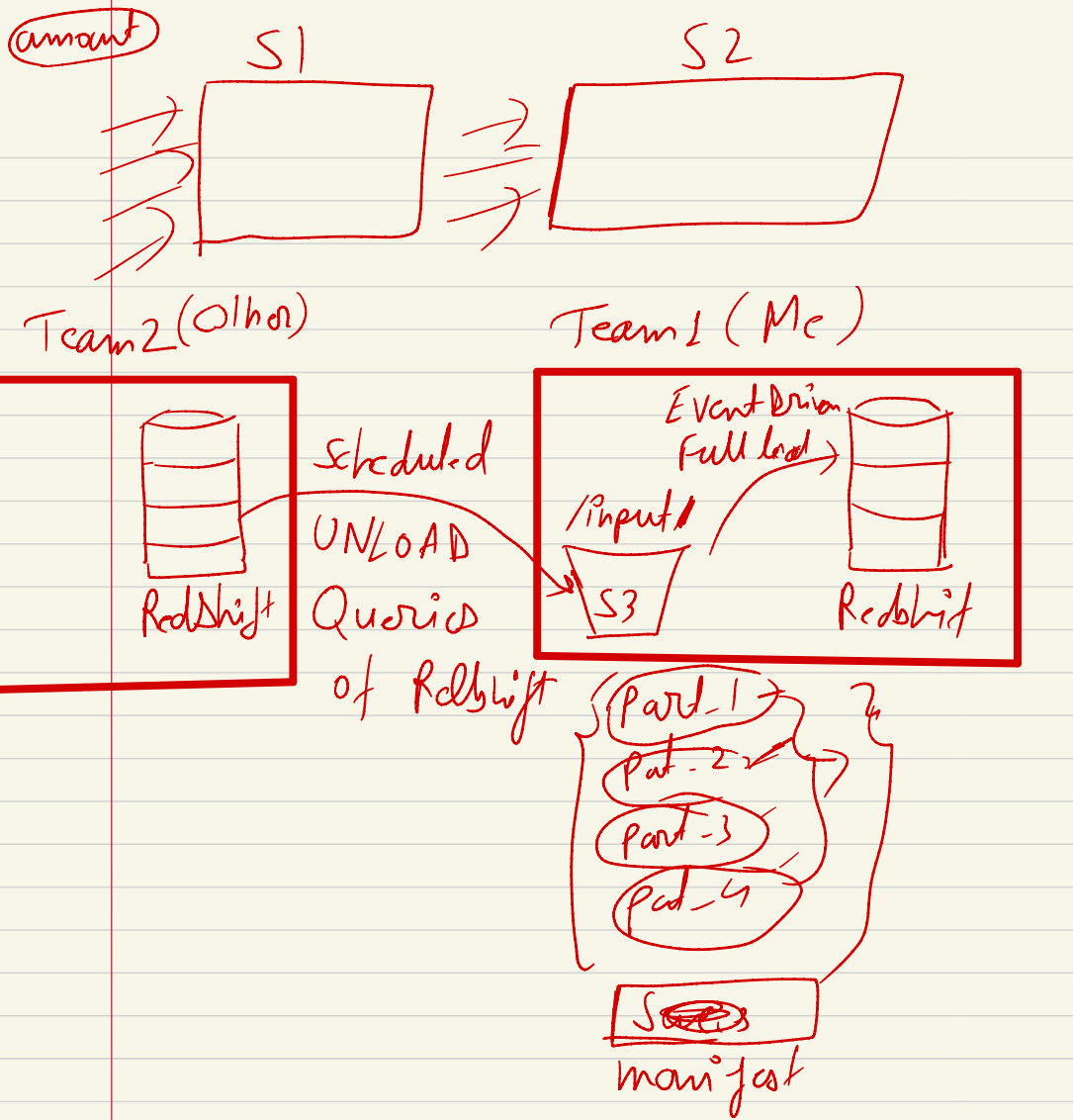
Orders

50GB

Zip_Codes

240KB





(n) → l1 = [1, 5, 8, 10]

(m) → l2 = [2, 5, 8, 13]

$l1 + l2 \Rightarrow l3 \Rightarrow sort(l3)$

$(n \log n)$

$l3 = [1, 2, 4, 5, 8, 9, 10, 13]$

$O(m+n)$

Sort-Merge Hive