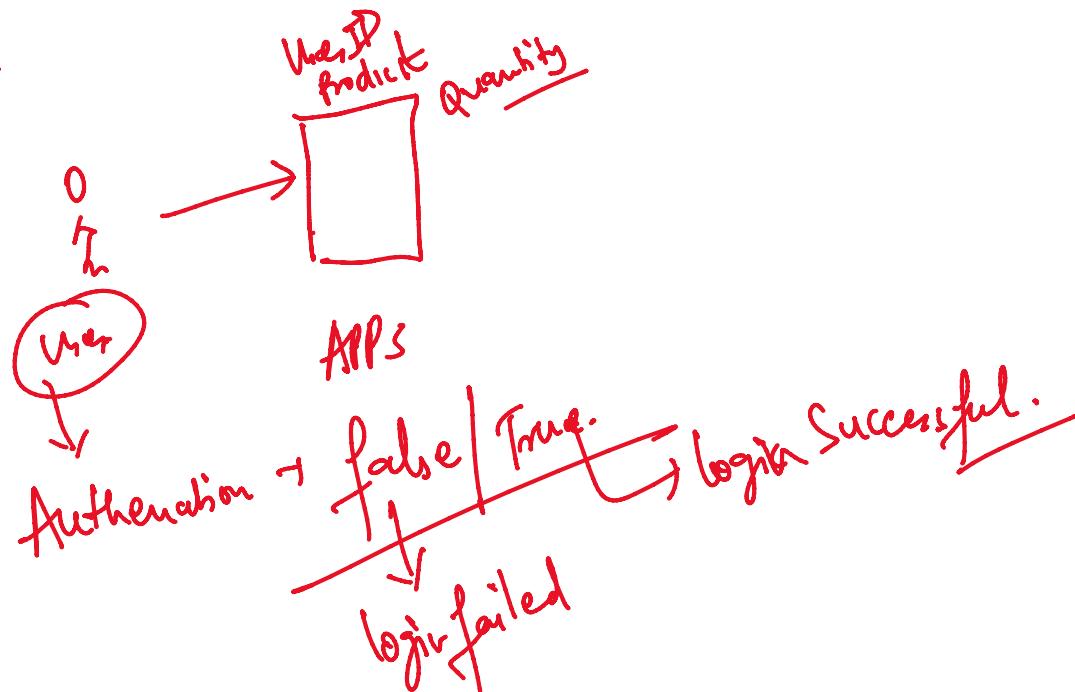


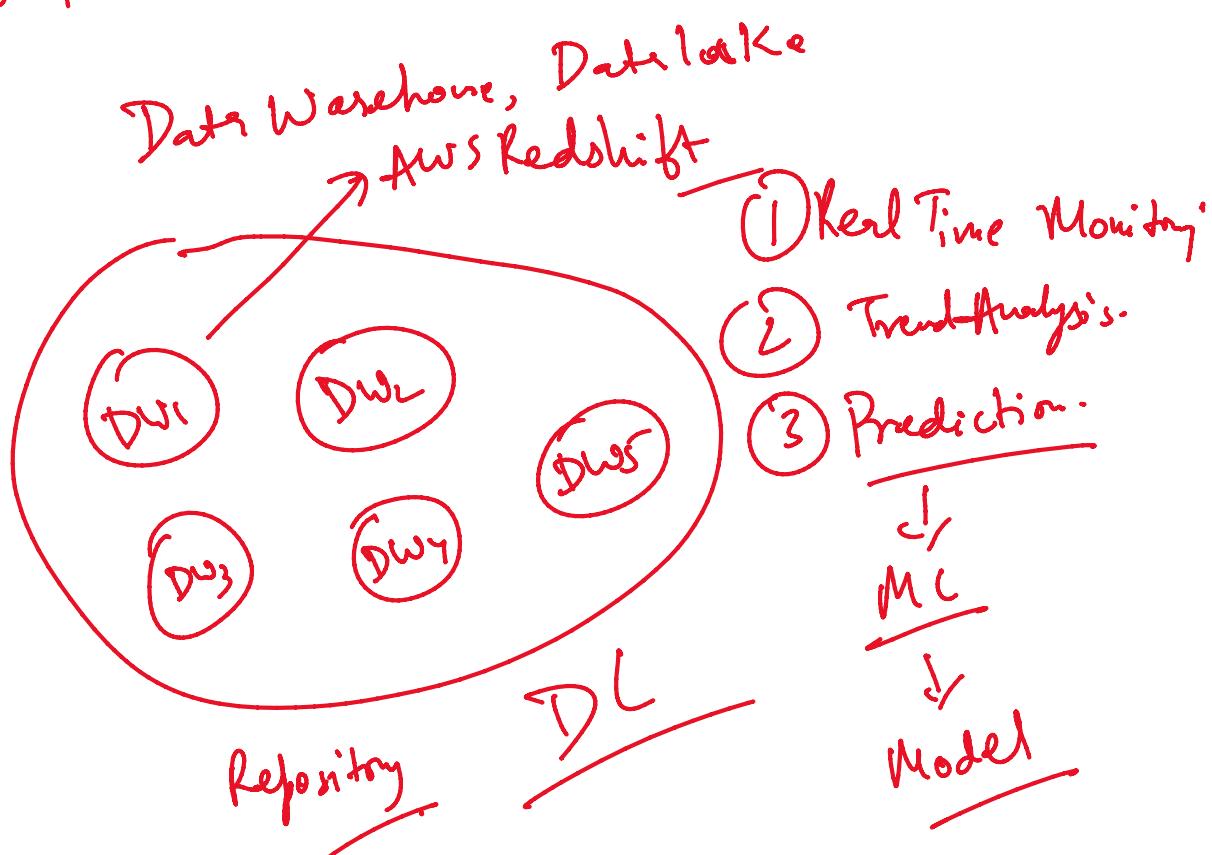
- ① Splunk
- ② History
- ③ Architecture (Components of Splunk)
- ④ Use Cases

## ⑤ History :-

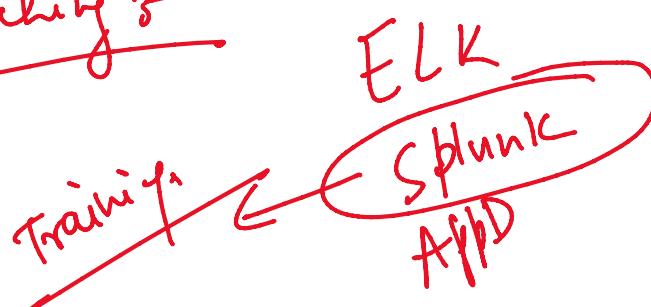


## ⑥ Data Storage :-

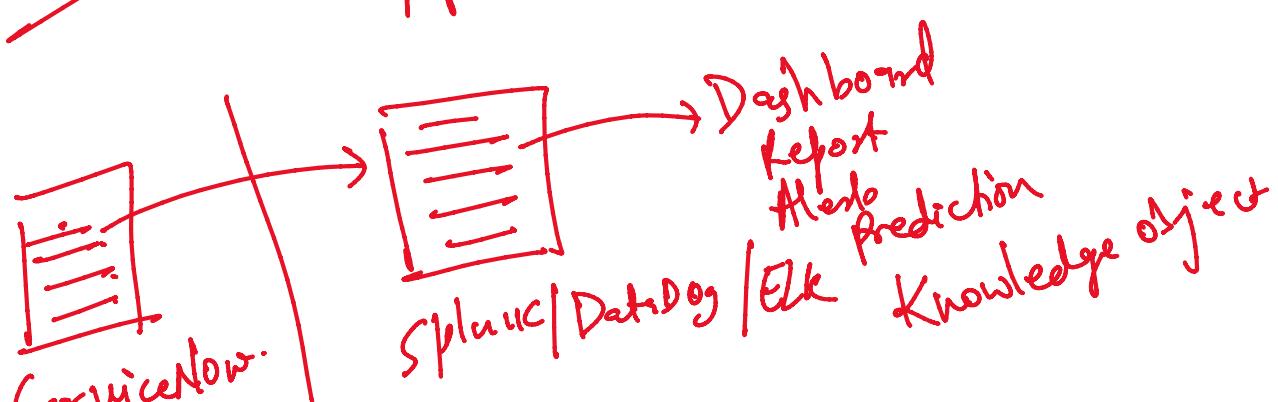
Structured Data → CSV,  
Semi-structured → XML, json.  
Unstructured → Audio, Video,  
Image.

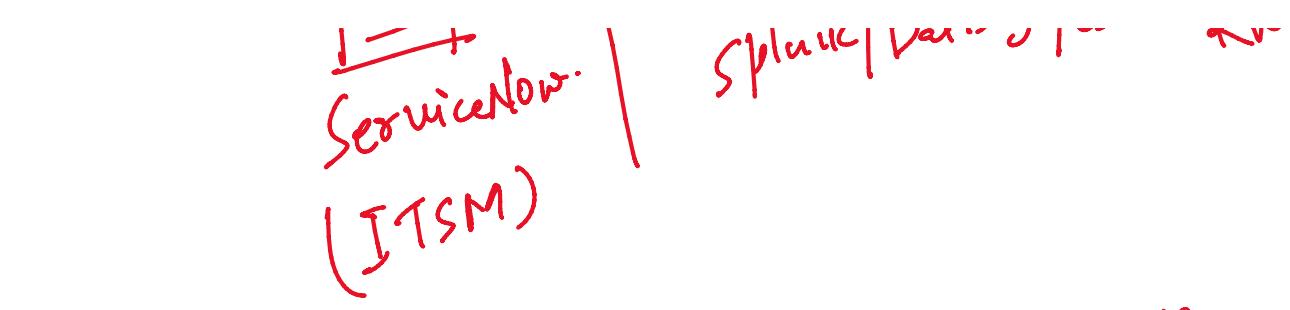


## ⑦ Searching :-



DataDog  
Nagios  
Dynatrace.



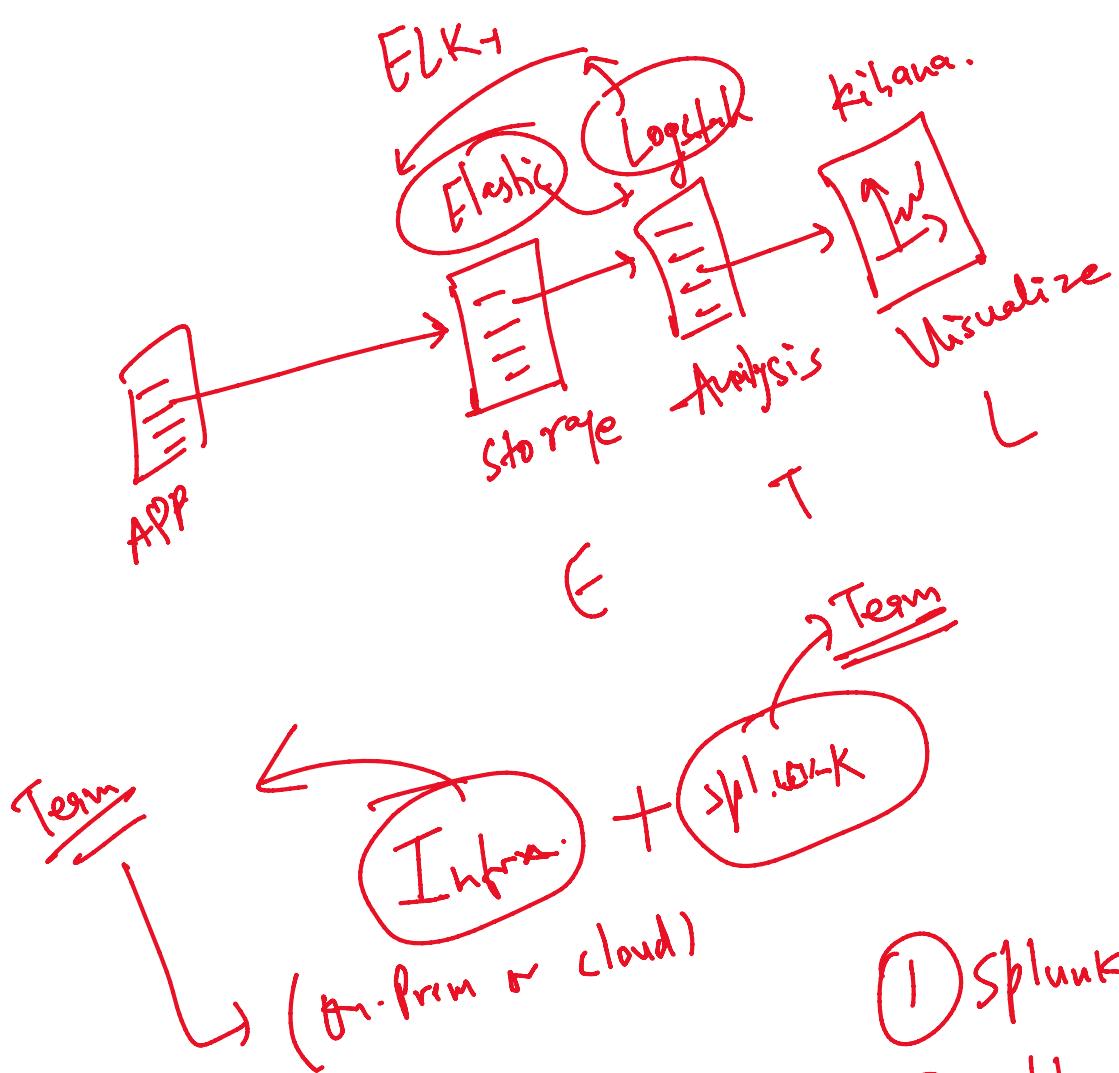
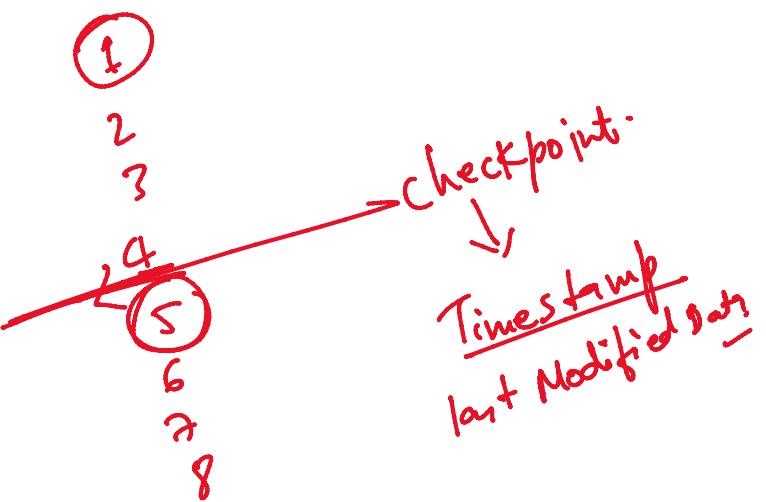


③ Splunk :- Monitoring Tool

- ① Any source → Linux, Windows, AWS, Azure, Twitter, Sales, Tim, Metric, Path, Fix, etc.
- ② Any Data type.
- ③ Dashboard
- ④ Report
- ⑤ Trend Analysis
- ⑥ Prediction

Benefit Splunk:-

- ① Any Source & Any type of Data.
- ② Integration with the Source Application.
- ③ Customer support.
- ④ All Component Config in single package.
- ⑤ SPL + Search Processing Language → MySQL



Concs:-

- ① Mid Size Org. Costly.
- ② Splunk Cloud.
- ③ Splunk ES
- ④ Splunk SOAR
- ⑤ Splunk ITSI
- ⑥ Splunk VBA
- ⑦ Splunk APM

Management Information

## Component of splunk:-

- ① Indexer.
- ② Search Head
- ③ Forwarder.

- ④ License Master.
- ⑤ Cluster Master.
- ⑥ Deployer.

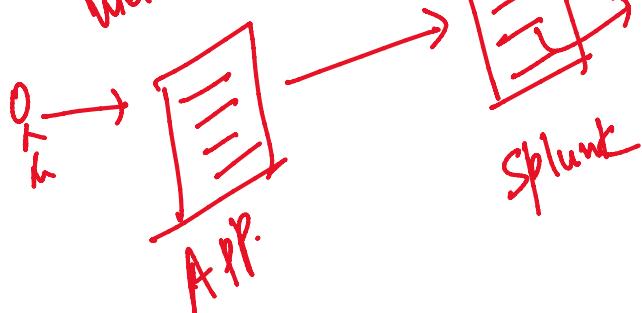
⑦ Splunk

- ⑧ Deployment Server.
- ⑨ Search Captain

Storage / Repository where you can store the incoming data.

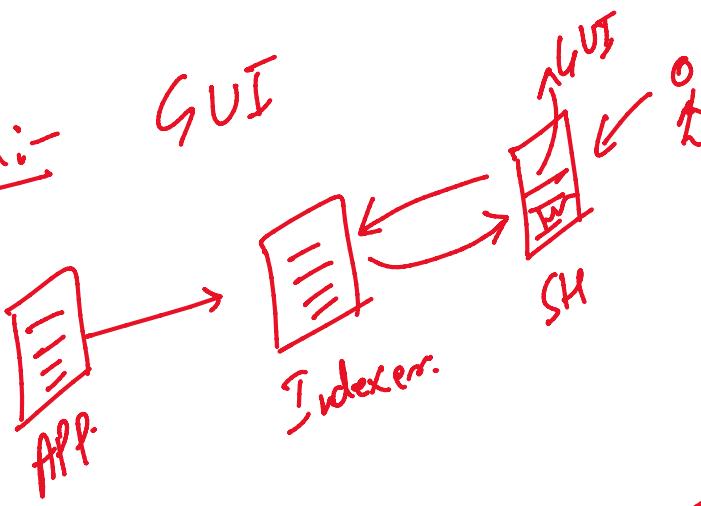
### ① Indexer:-

What is it? A distributed job



Storage → Indexer

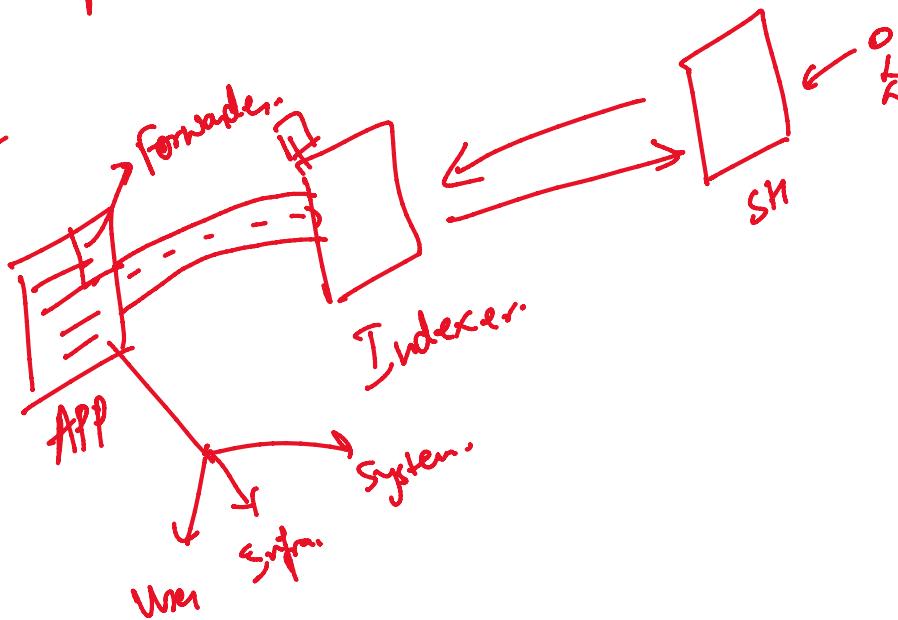
### ② Search Head:-



GUI

### ③ Forwarder:-

forward the data  
from the source to the  
Indexer level.



Pay to splunk.

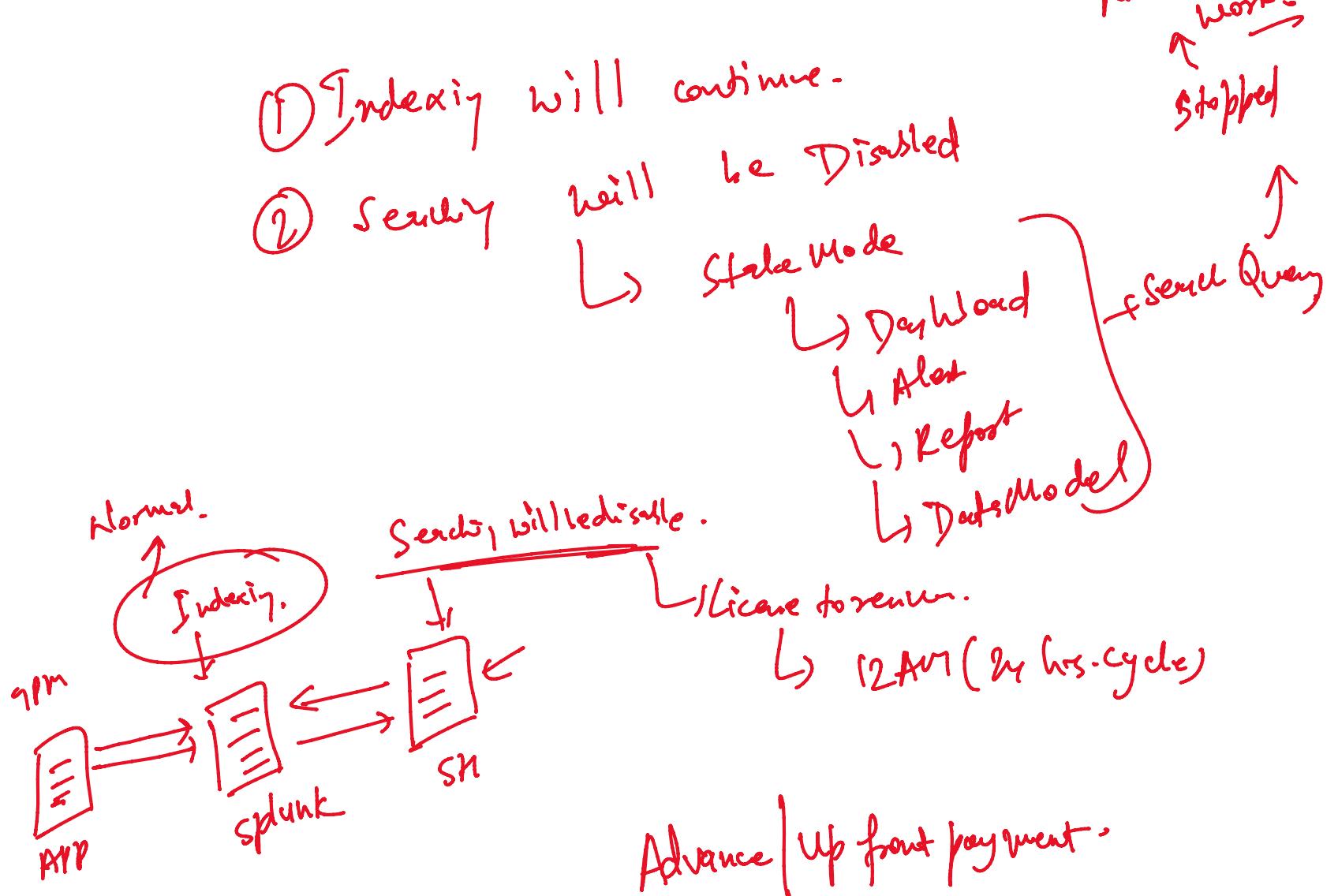
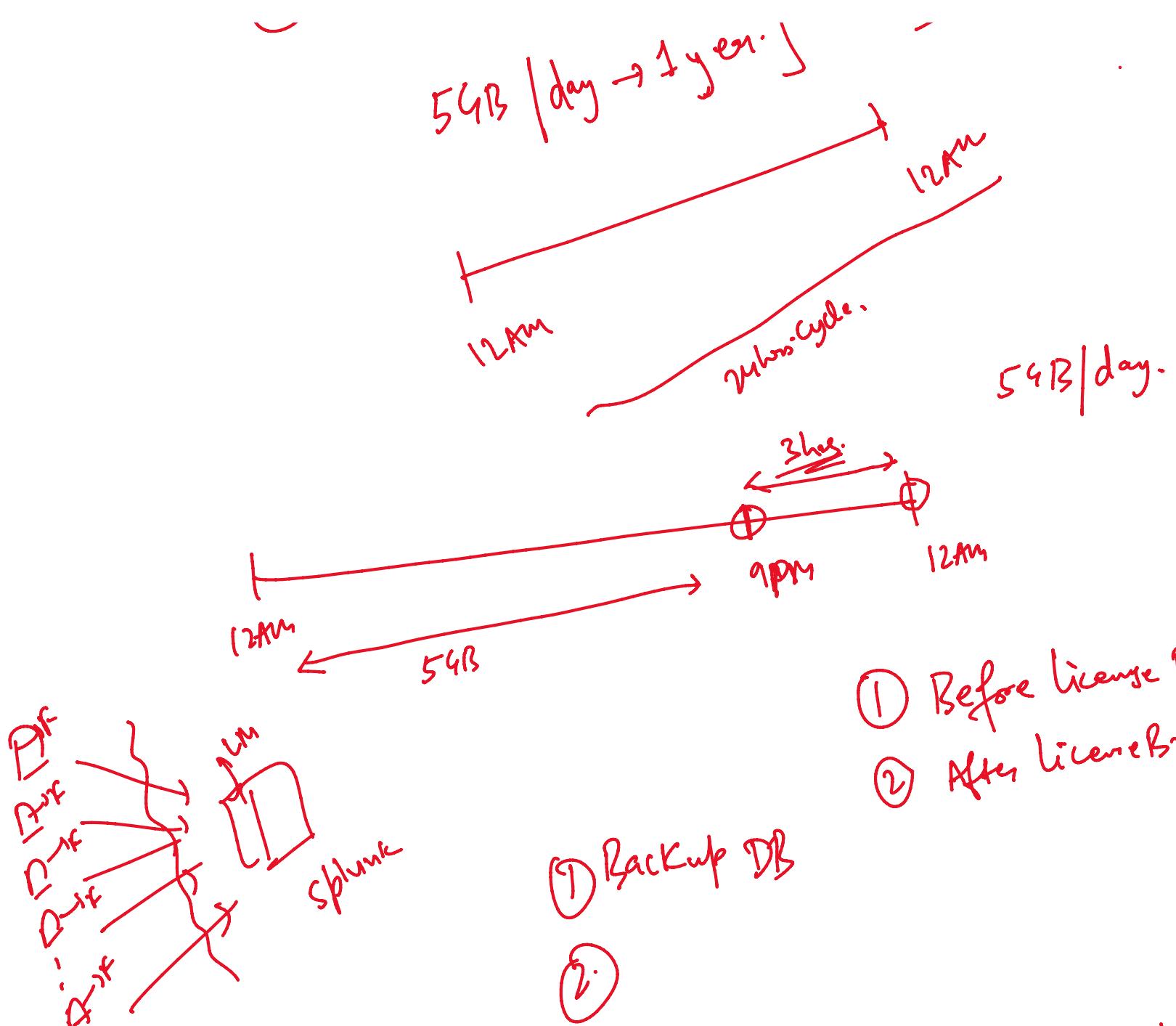
### ④ License Master:-

Parameter the license is calculated?

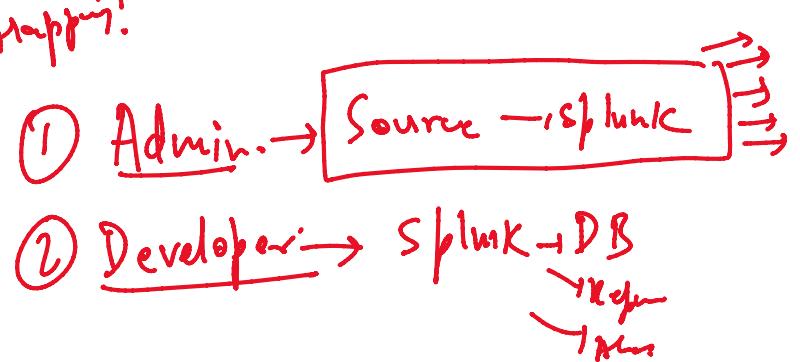
① Data Volume.

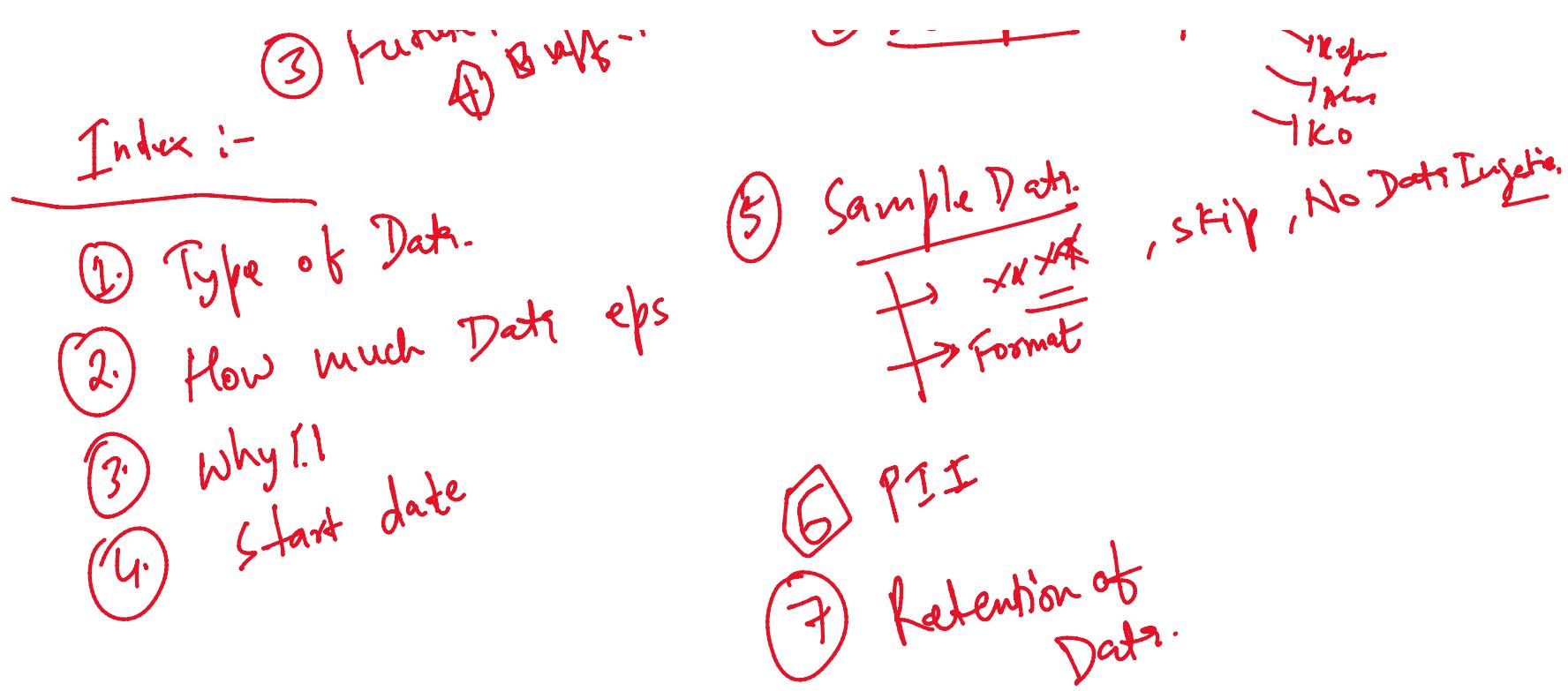
② Consumption of Computational Resources

→ [1 day → 1 year] → \$\$\$\$



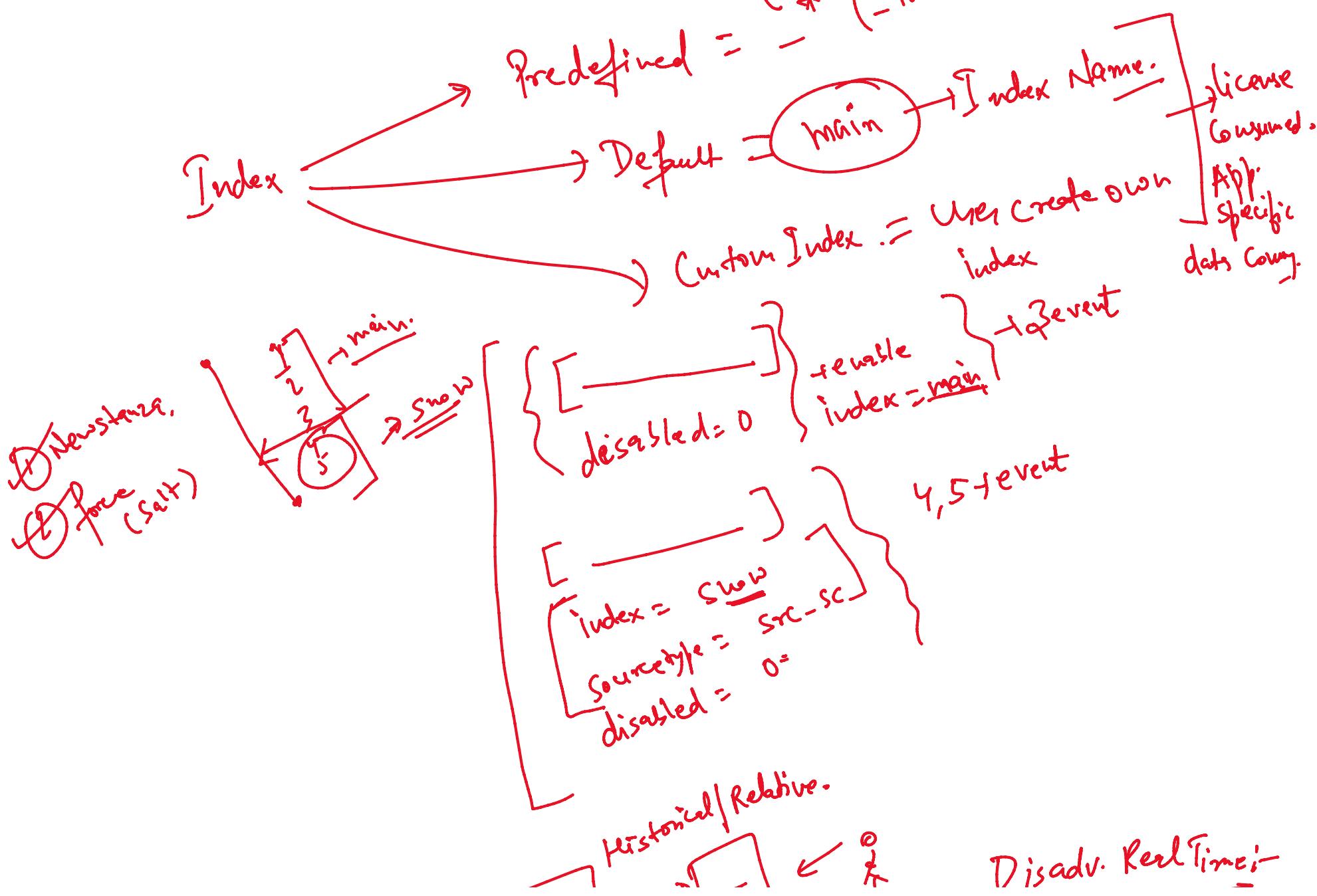
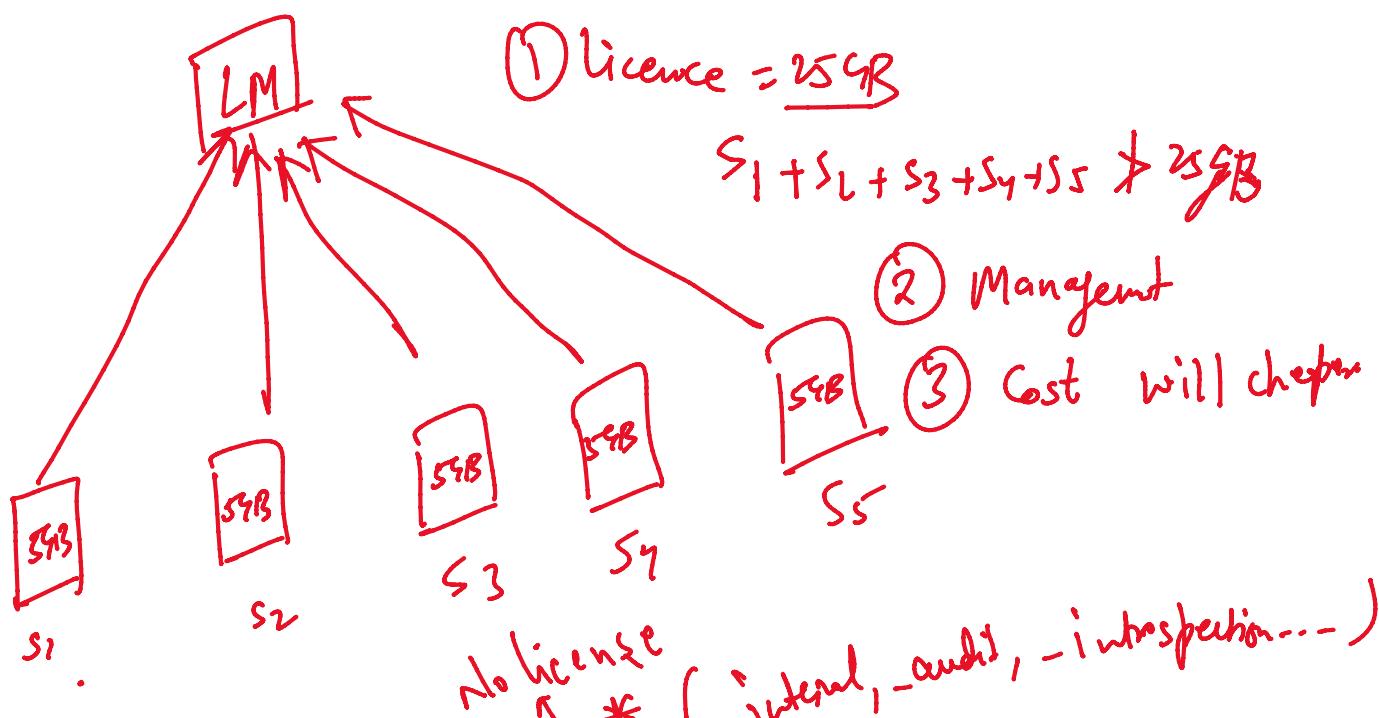
- Factors:-
- ① How many data sources?
  - ② How much data mapping?
  - ③ Future prediction.
  - ④ Budgets -

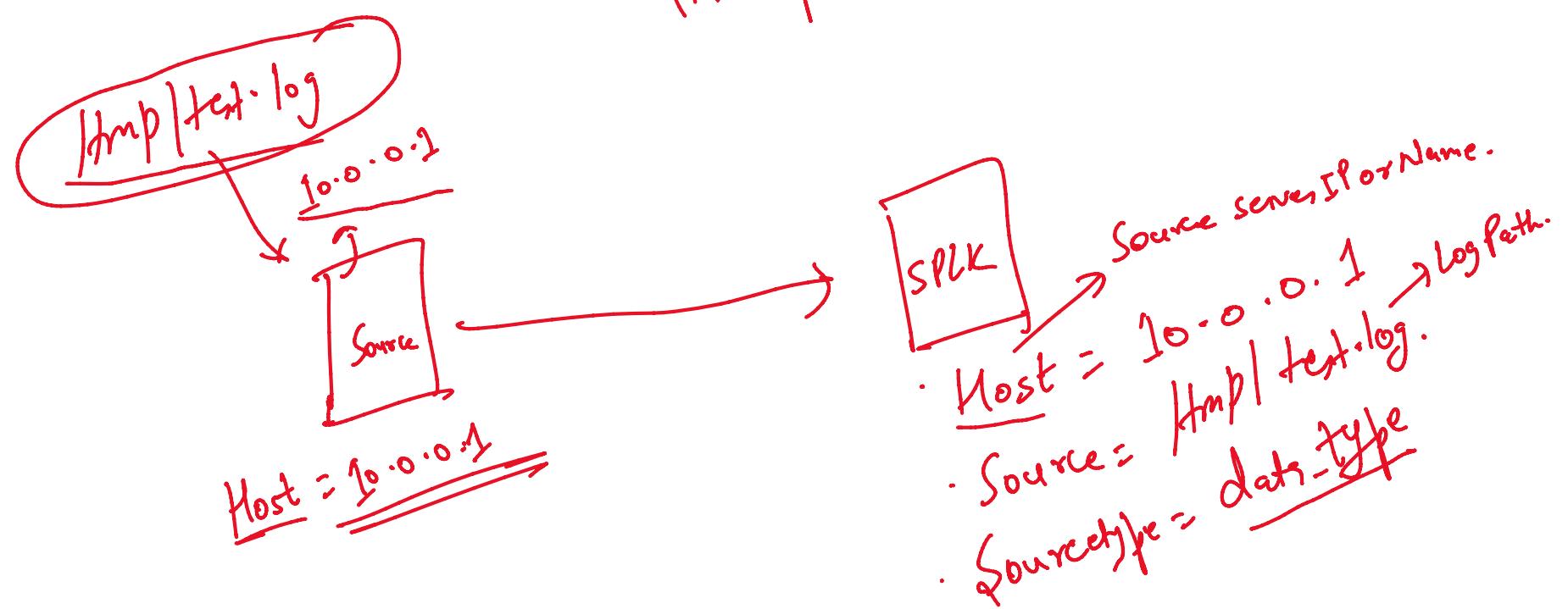
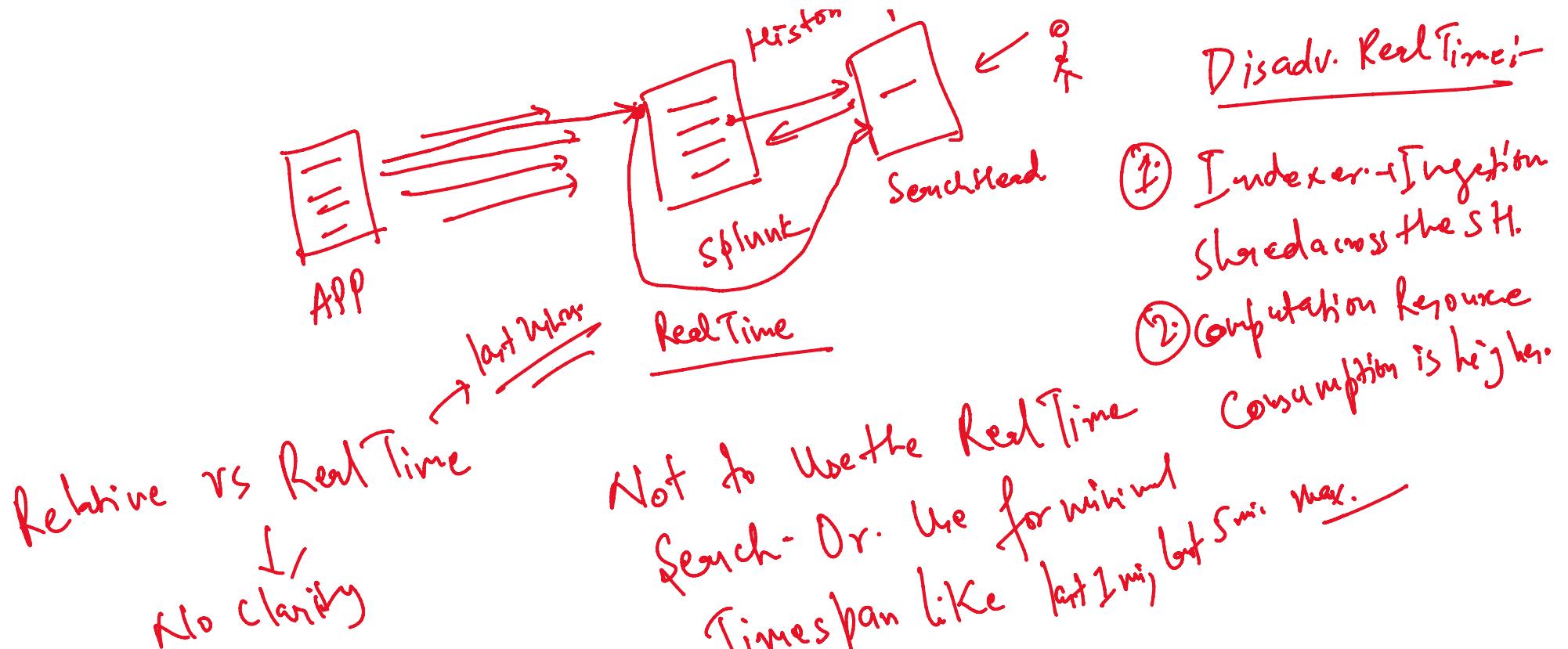




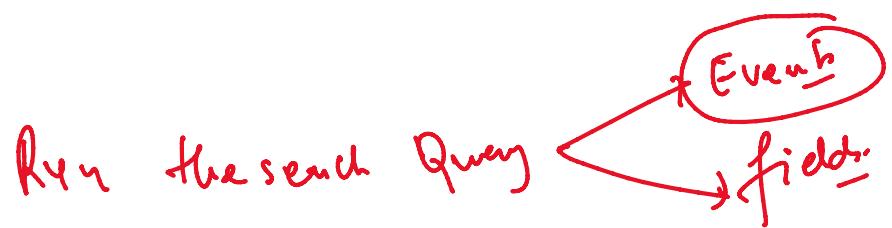
CAB - Change Advisory Board.

License Pooling:-





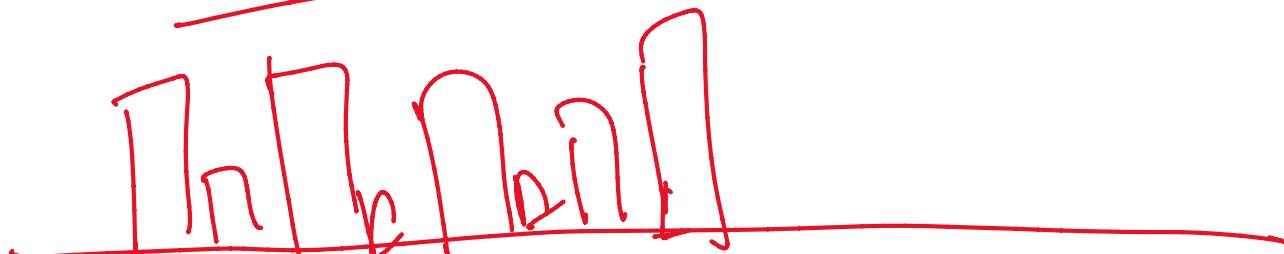
Fast Mode → Smart Mode → Verbose Mode.

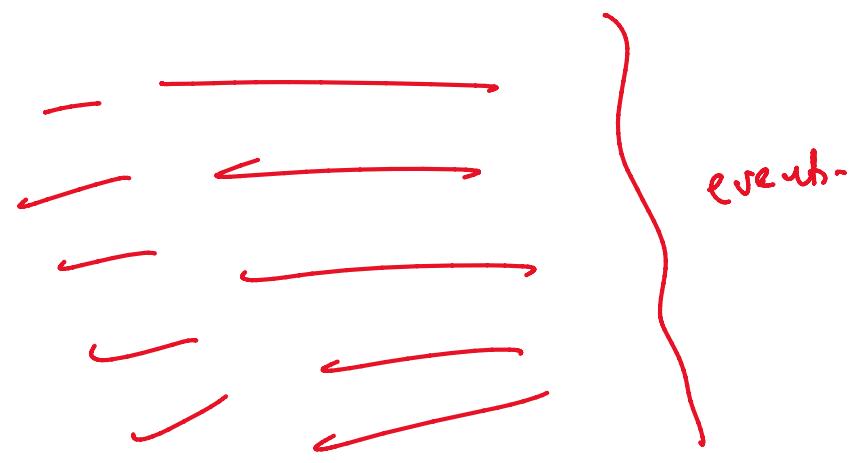


Verbose: Fields + Events + Searches

Fast Mode :- Event

Smart Mode :- Events + Fields.





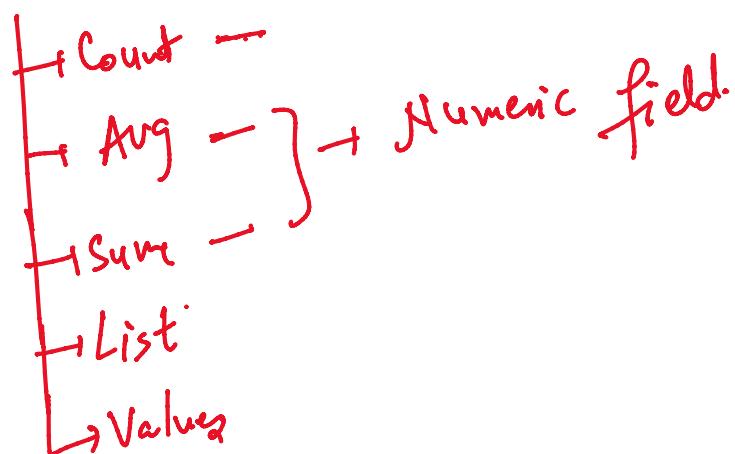
Commands:

- ① Table
- ② Rename
- ③ Dedup
- ④ Sort
- ⑤ fillnull.
- ⑥ stat.
- ⑦ Eval
- ⑧ Where
- ⑨ Search.

⑩ Top & Rare

① Table :- Showcase data in tabular format.

Stat → Statistical output

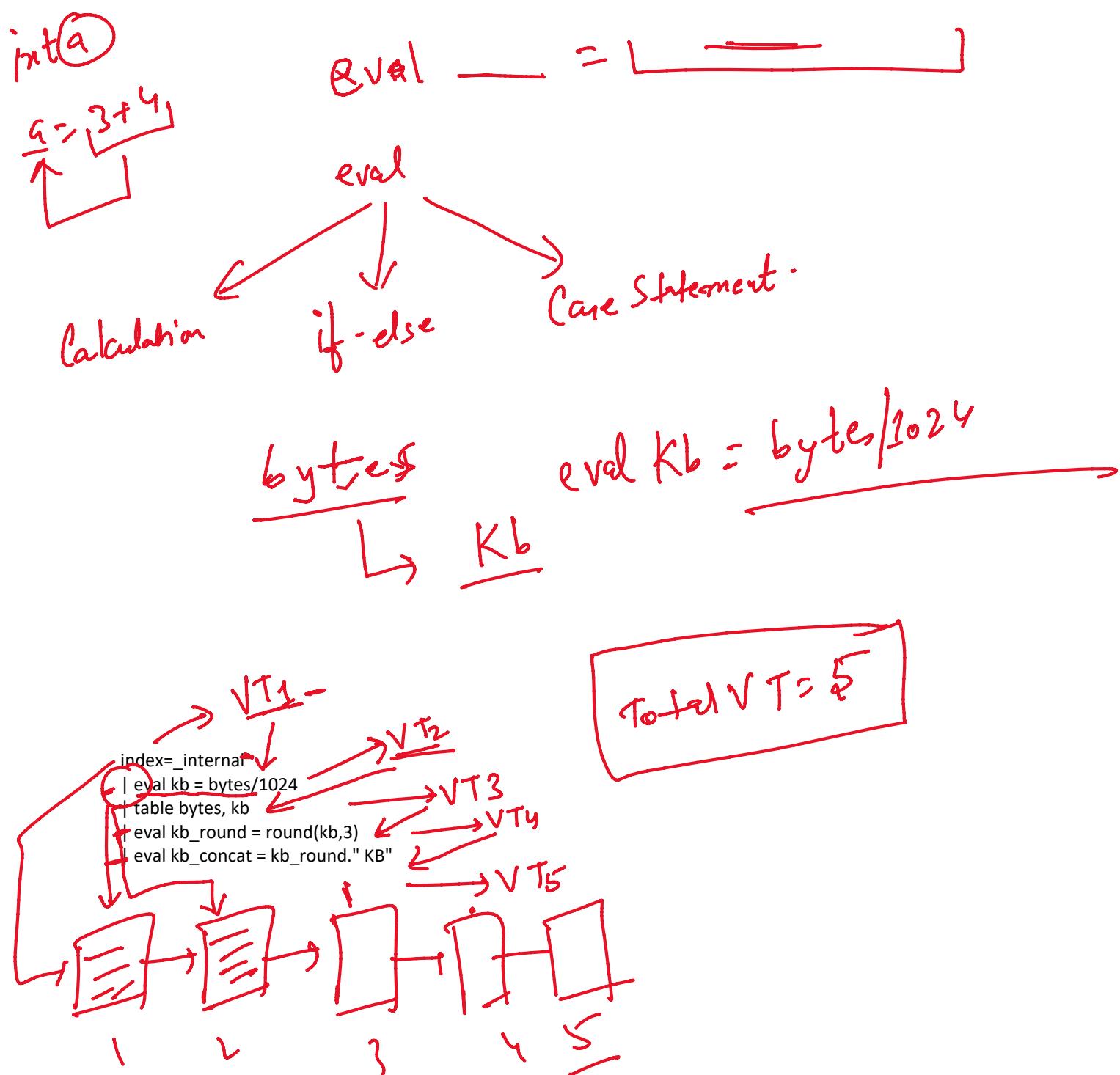


A	B	C	D
-	-	NA NA NA	-
-	-	-	-

fillnull value = "NA"  
 df | true | NA |

- Fillnull:-
- ① Default value of fillnull command is 0.
  - ② | fillnull value = "NULL" → Customize the value of all the column.
  - ③ | fillnull value = "NULL" total-bytes → Customize the blank spaces for total-bytes column.

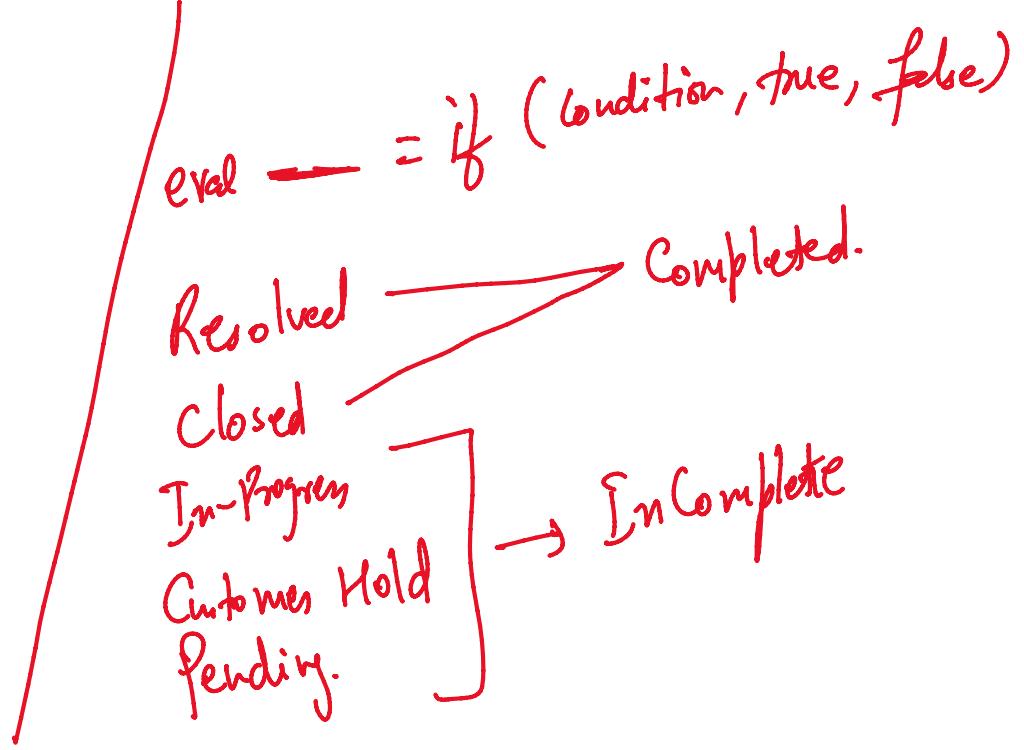
List of Values:- Group of data on the basis of fields.



```

if (a>b)
{
    print(a);
}
else
{
    print(b);
}

```



Case Statement ↴

↓  
switch

Case(0): Mon

case(1): Tues

:

default: Sunday

Mon  
Tue  
Wed  
;  
;  
;  
Sunday

Case( Cond1, True, Cond2, True, Cond3, True, ..., I=I, — )

for

1 → Critical  
2 → High  
3 → Normal  
4 → Low