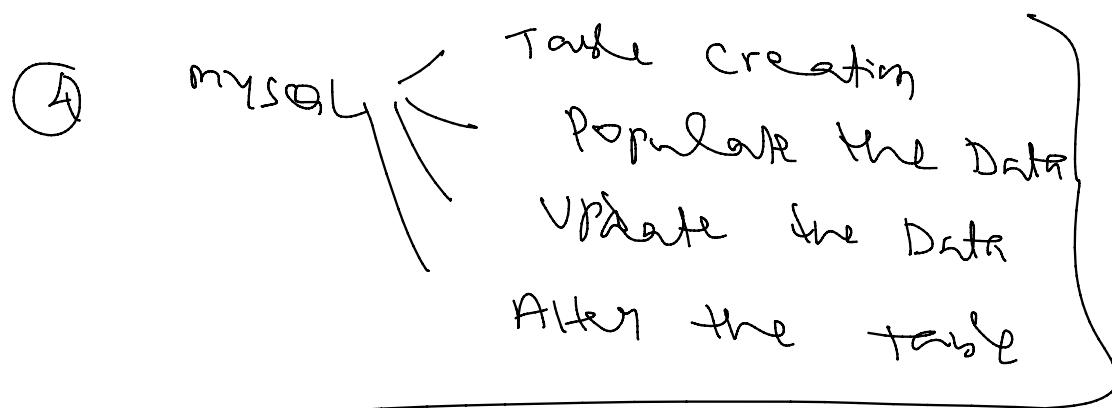


willingness → Rules

objectives

- ① client server Arch ✓
- ② Master / Slave Arch ✓
- ③ Distribute file system ✓



S_1	S_2	time ₁	time ₂
100	-1800	10:57:00	10:58:00
100	1800	10:57:03	10:58:04
1800	100	10:58:02	10:58:53

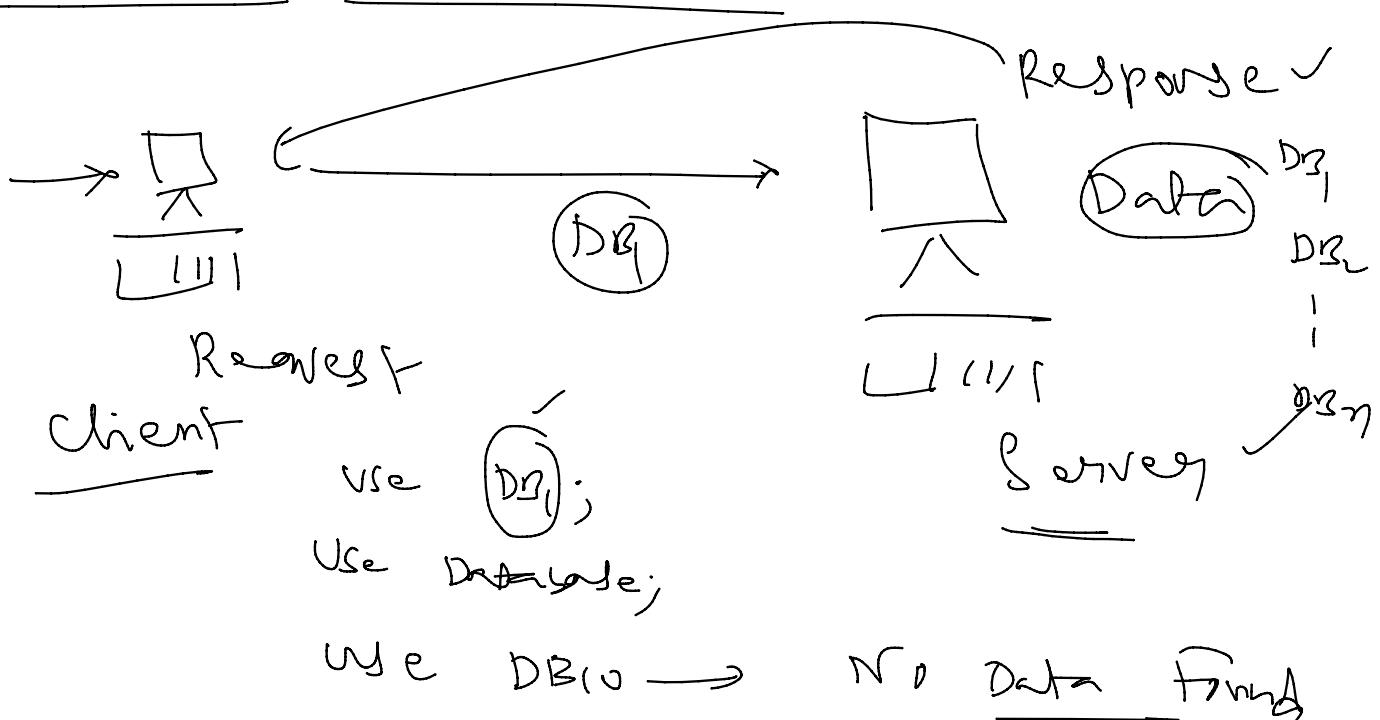
✓ → Mixed Call

→ (b3) sees whether the customer
care or not calls the back the engine

Scenario ?

Name	Role	
Son	DataEngineer	Son (DE)
Aishwarya	DataScientist	Aishwarya (DS)
Patrick	DataAnalyst	Patrick (DA)

Client - Server architecture



- ① Client & Server may have same

① Client & Server may have same configuration.

② Sometimes server may have hidden config.

* *
③ Client Request the Server in the form of query (question) and server Respond back to the Client in the form of Results.

④ If Server is not having the Required Data by the client then simply it will give No Data found.

* Master / Slave Architecture

- Huge Data 150 yrs temperature Data
 - US, UK & India.
 - ~~Don't~~ Yearly maximum temp recorded by the countries.
- 1900 = Year [Monthly → Days]
- 1911 - → USA → US
1922 - → India
- 2015 -

Huge Data → Client / Server

A Advantage → Response -

Drawback →

Huge Data [Can't handle by a single machine]

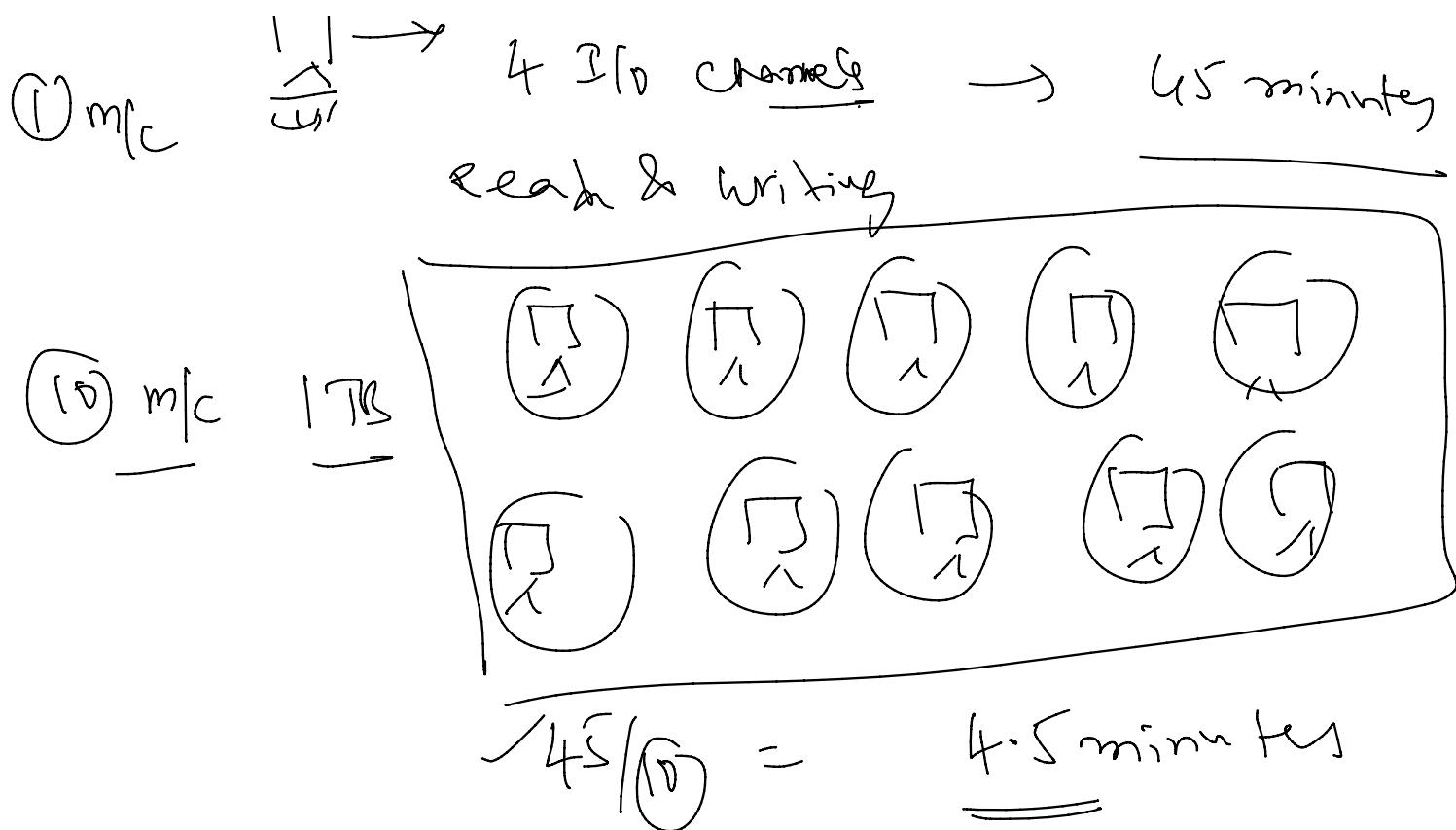
Distributed Environment

Example:

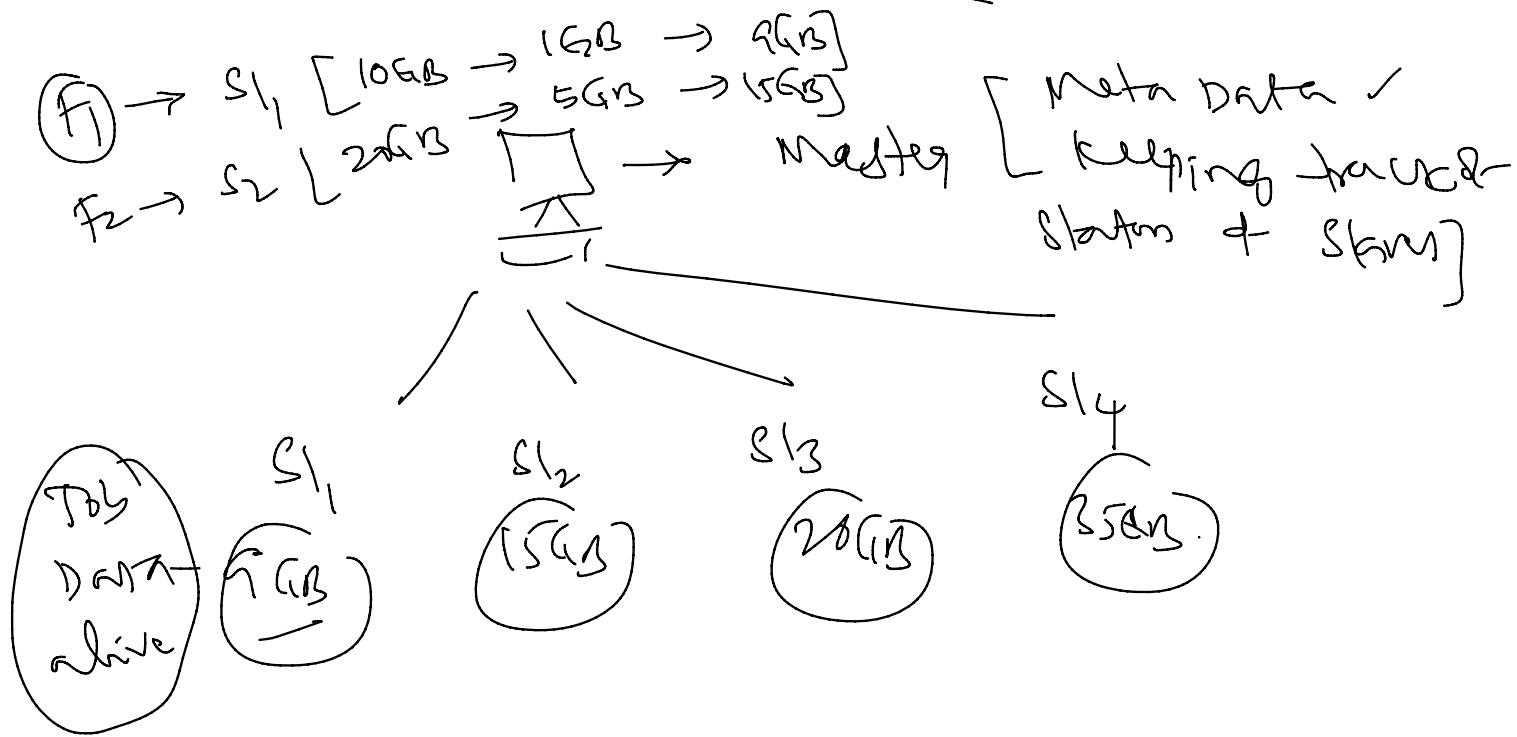
1 TB

of live Data.

1 TB → 4 IP channels → 45 minutes



* * Master Slave Architecture



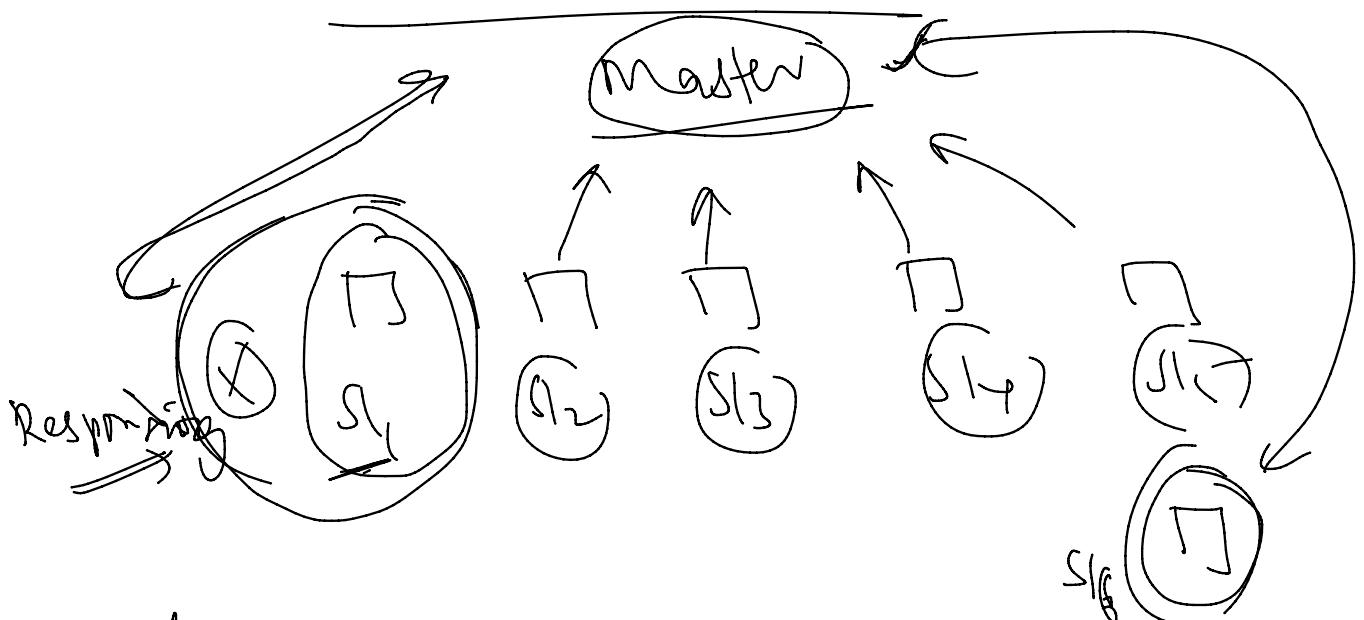
Slave (a) store all the info -

(b) Periodically update the status information with master.

(c) According to the instructions of the master the slave stores & processes the data.

(d)

Fault tolerance



a) Client-Server

b) distributed

c) master-slave

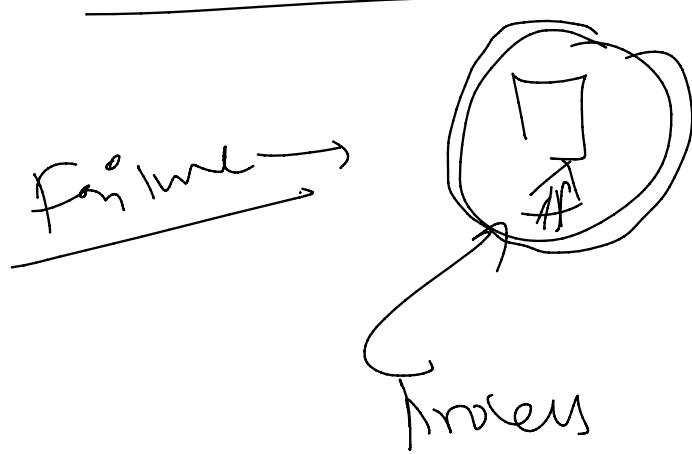
c) master/slave]

(Q1): Server machine ✓ System

(Q2): cloud
Individual

- ✓ Client mode
- ✓ Cluster mode

Client mode



Single machine

- All SW
- DB
- Storage

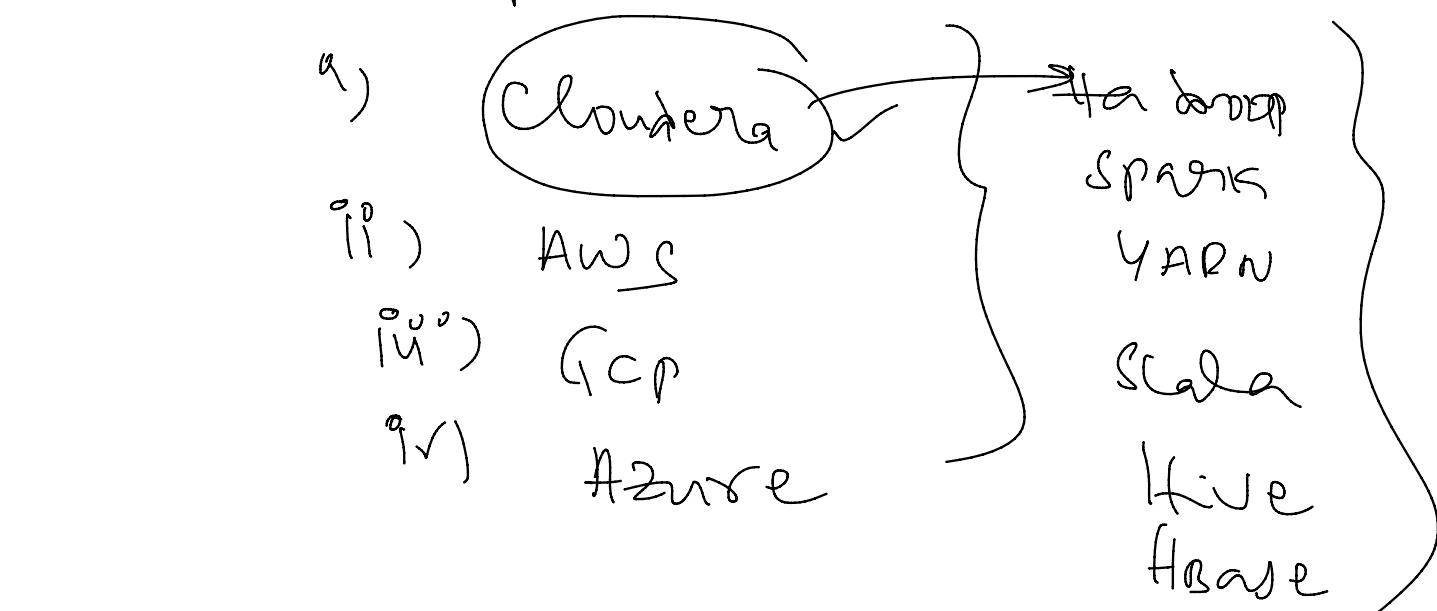
Cloud aspects [Cluster]

Cluster:

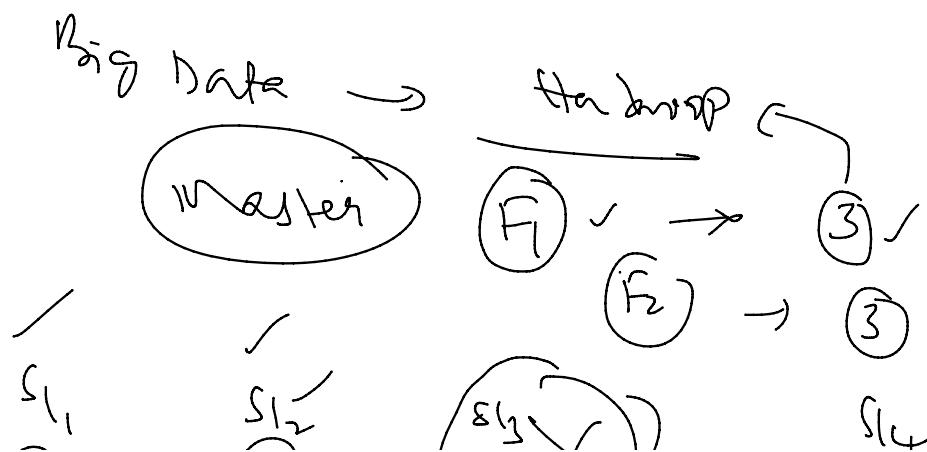
Cloud + Environment Where

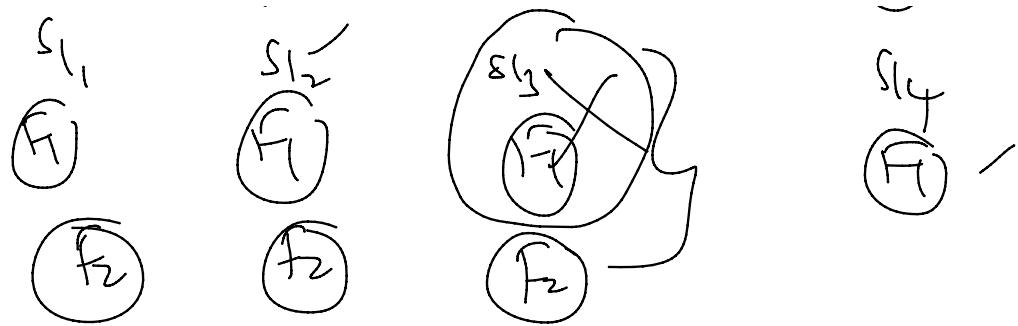
- ..

— kind of environment where
all the machines are trying to
implement same / similar way
with huge storage &
processing capabilities.



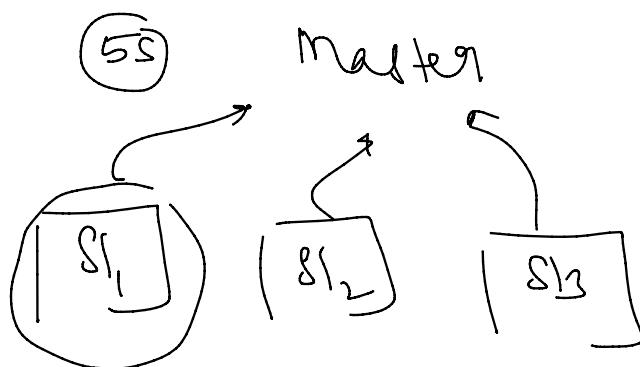
Cluster → Replication



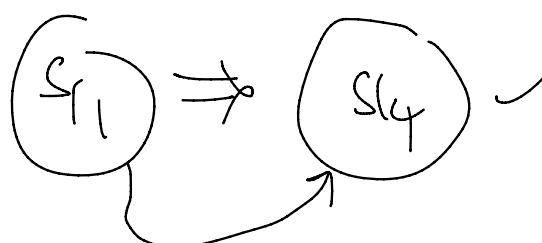


TDS process

Spectulative Execution



S_{11} 5 sec
 not updated
 the station with
 Master



Master

S_{11} S_{14}

Q Whether master
 should keep
 S_{11} S_{14} to perform
 the same TDS/
 or should go

with only one then
badis?

what if the
station

$|S_{11} > S_{14}|$

Yours .



Day-03 Key take aways

- ① Architecture — client/server, master/slave, distributed
- ② MySQL — table creation
- ③ Inserts [specific, All]
- ④ Alter {
 ⑥ Client mode }
 ⑦ Cluster mode }
- ⑤ Save the script to Import - the
→ .sql script

Next Session

- ① MySQL Features }
- ② Alter usage }
- ③ Update usage }

(3) -1 part usage
(4) Constraints)