

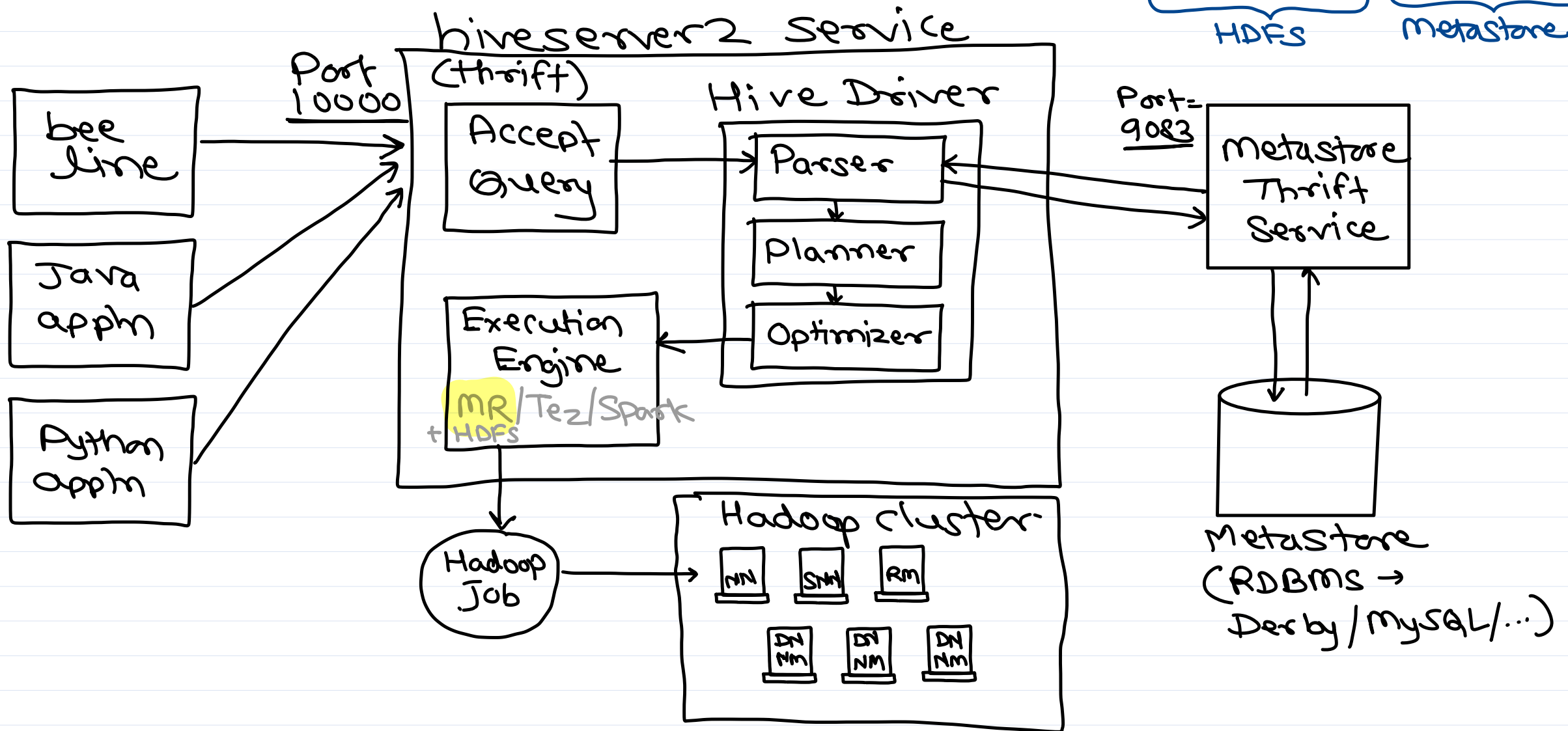


Big Data Technologies

Trainer: Mr. Nilesh Ghule.



Hive Architecture *Hive is a RDBMS* *Table = Data + Structure*
Views *(Rows/cols)* *(Cols)*
HDFS Metastore



Data Formats and Communication Protocols

Data Formats → Storage.

Text Formats

- CSV
- JSON
- XML

+ more human readable
- inefficient for parsing.

Binary Formats

- ORC
- Parquet
- Avro
- Sequence File
- BSON

+ very efficient
- not human readable.
+ Designed to work irrespective of tech/platform.
✓ Data type support

Communication → Data transfer

Text Formats

- JSON ← REST api
- XML ← web services

...

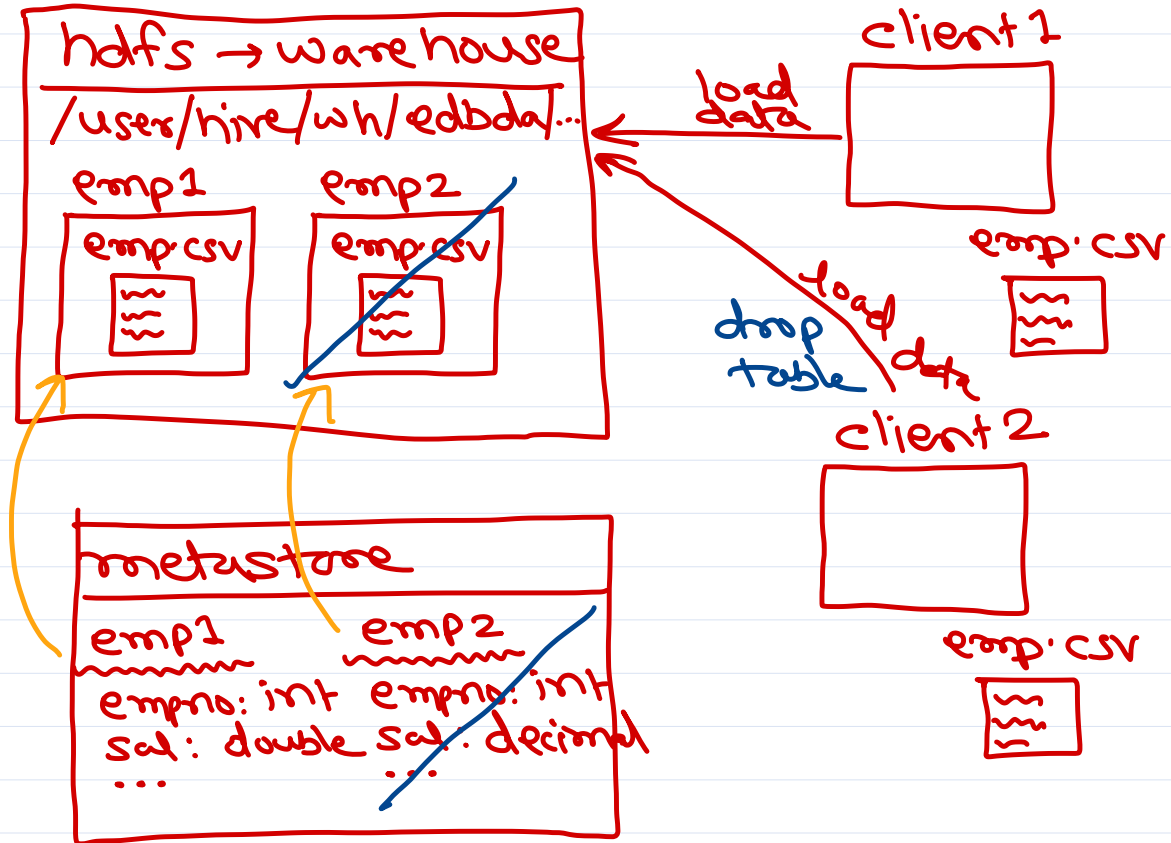
Binary Formats

- Thrift (Apache)
- Protobuf (Google)
- AVRO (Apache)

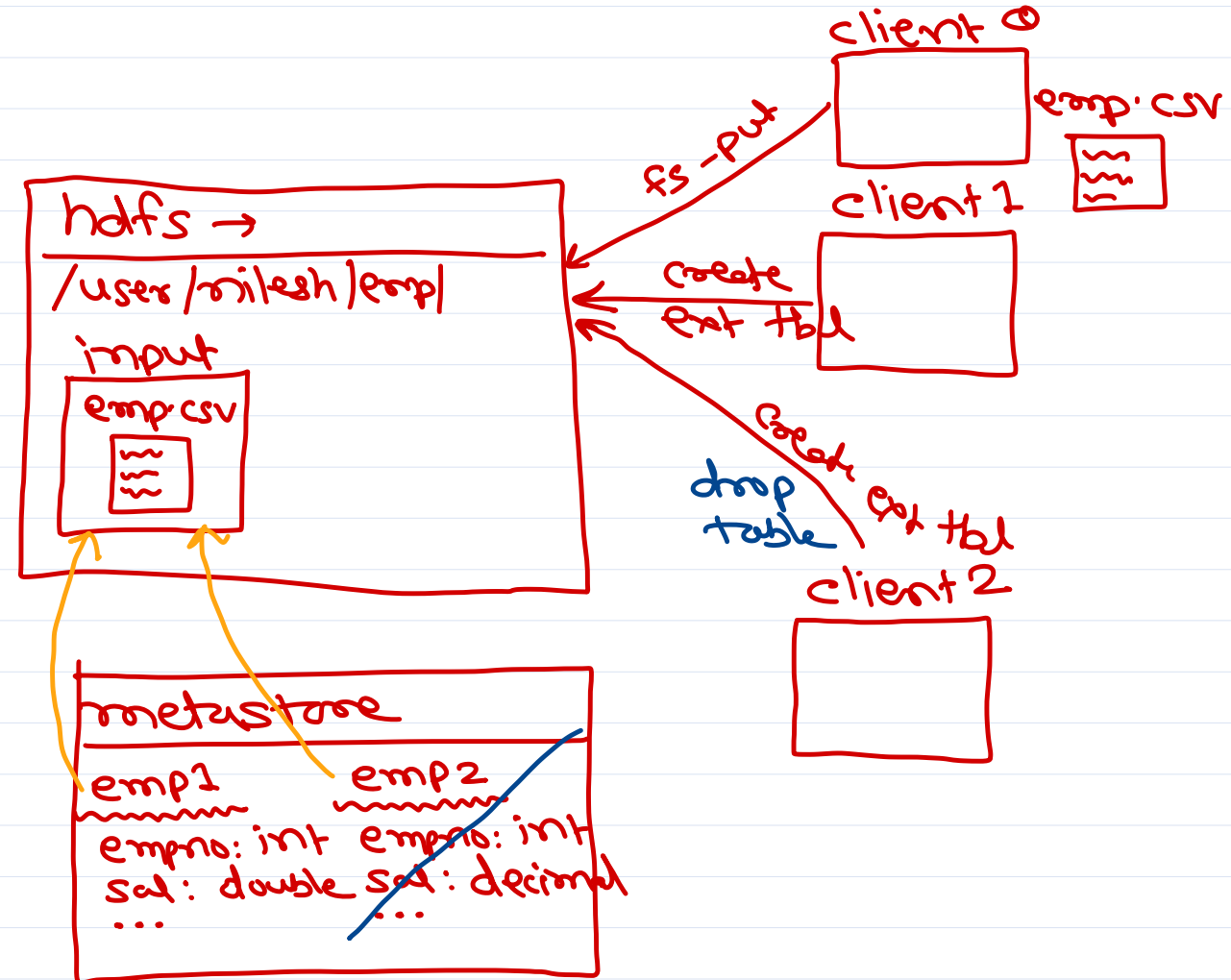


Managed Table vs External Table

managed tables: emp1, emp2



external tables: emp1, emp2





Thank you!

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