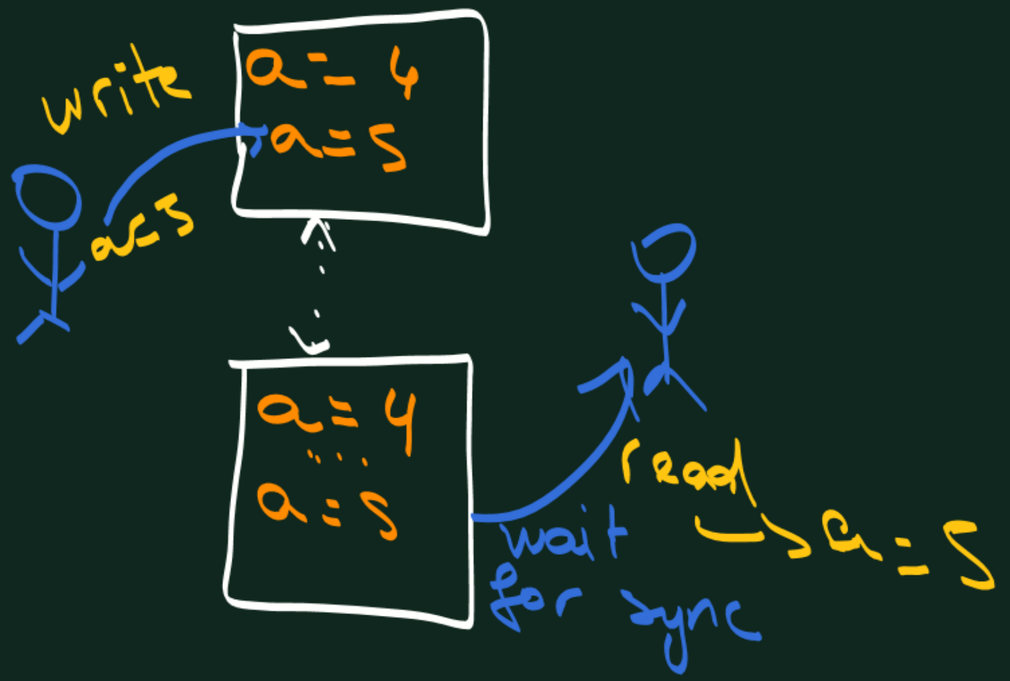
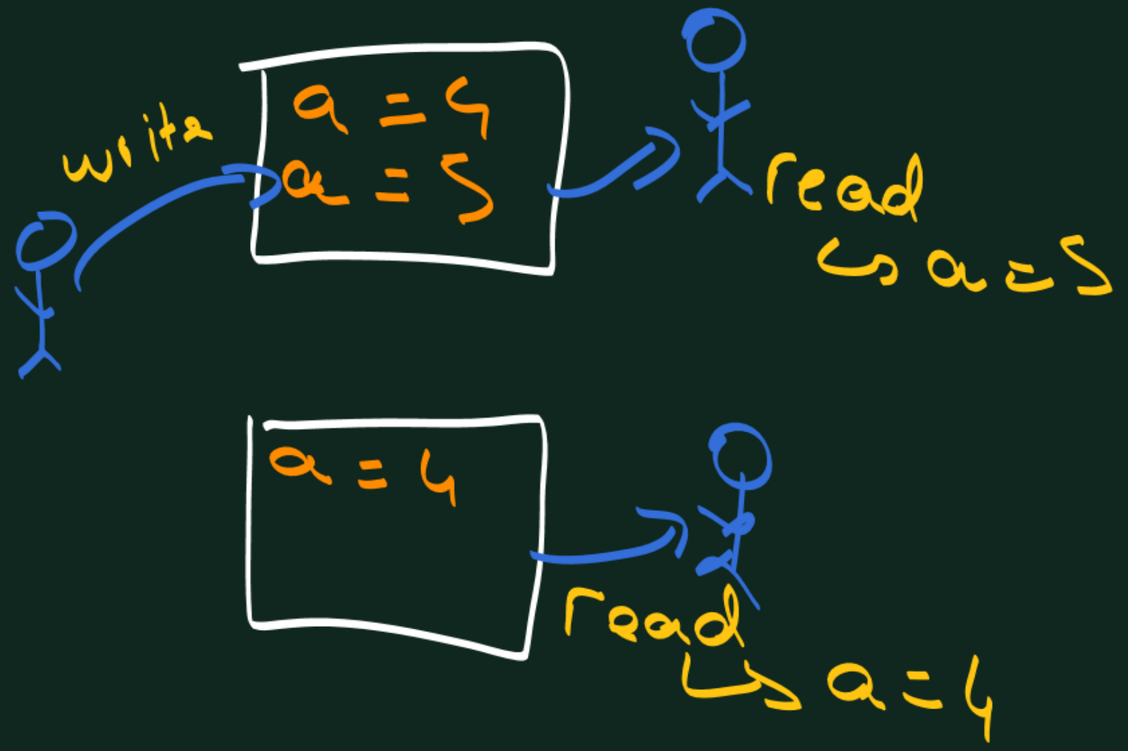
Consistency



→ HBase

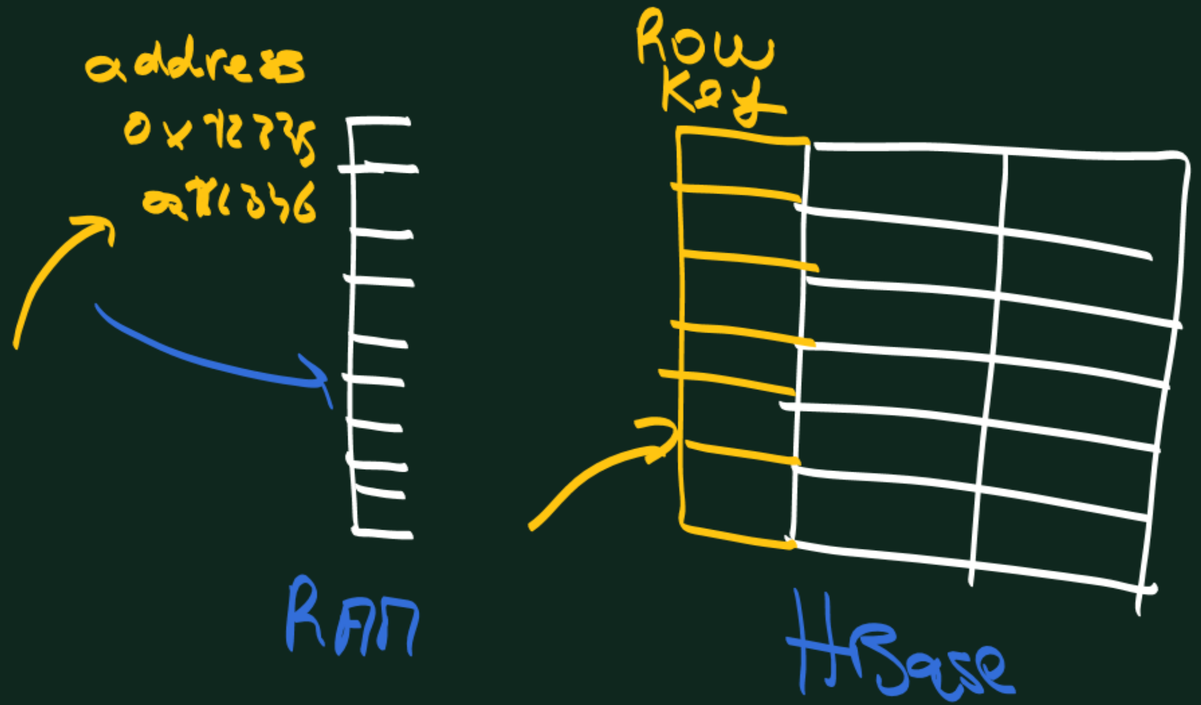
Availability



→ Cassandra

HBase

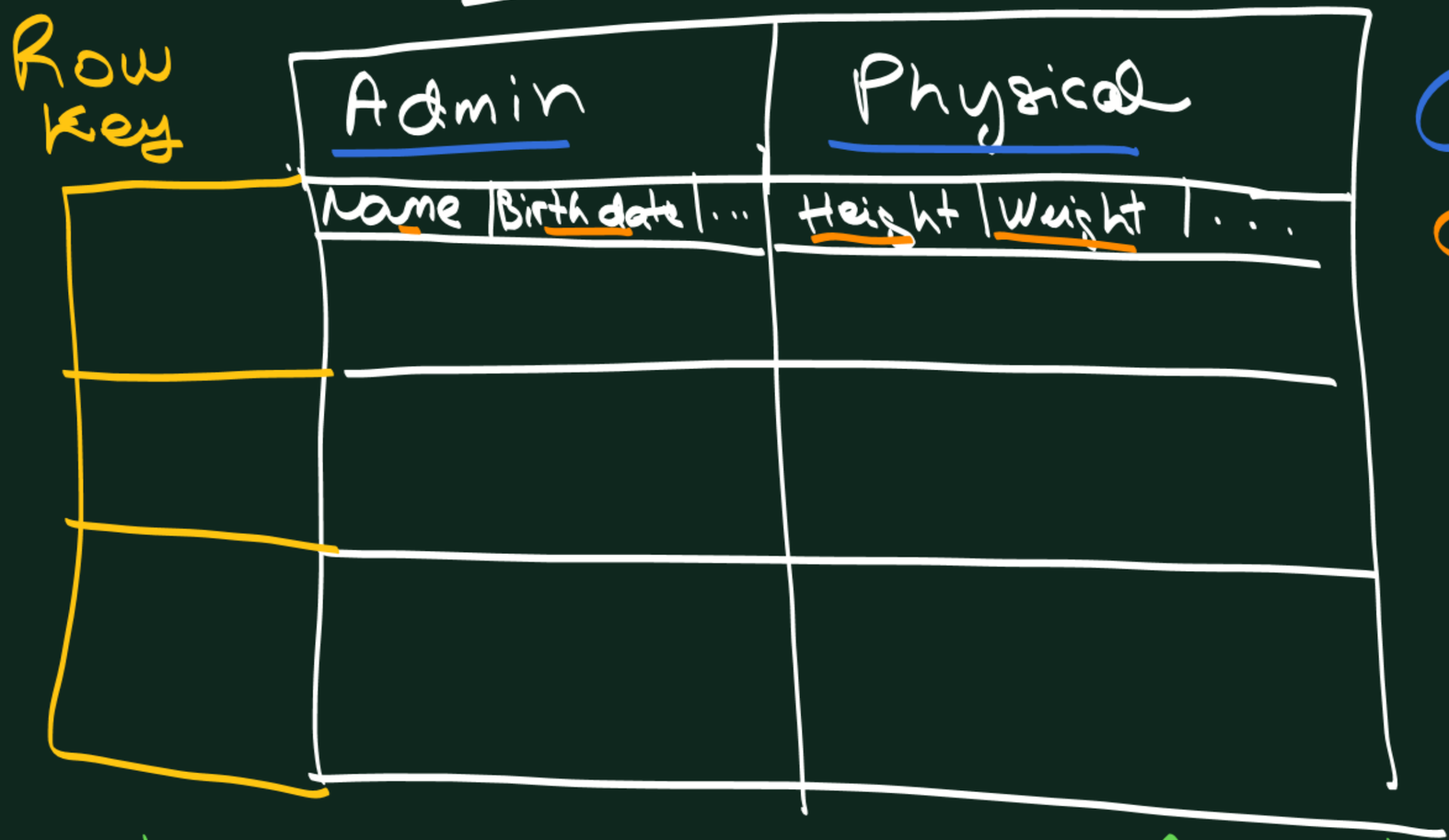
Random Access:



On top of HDFS:

-> HFiles

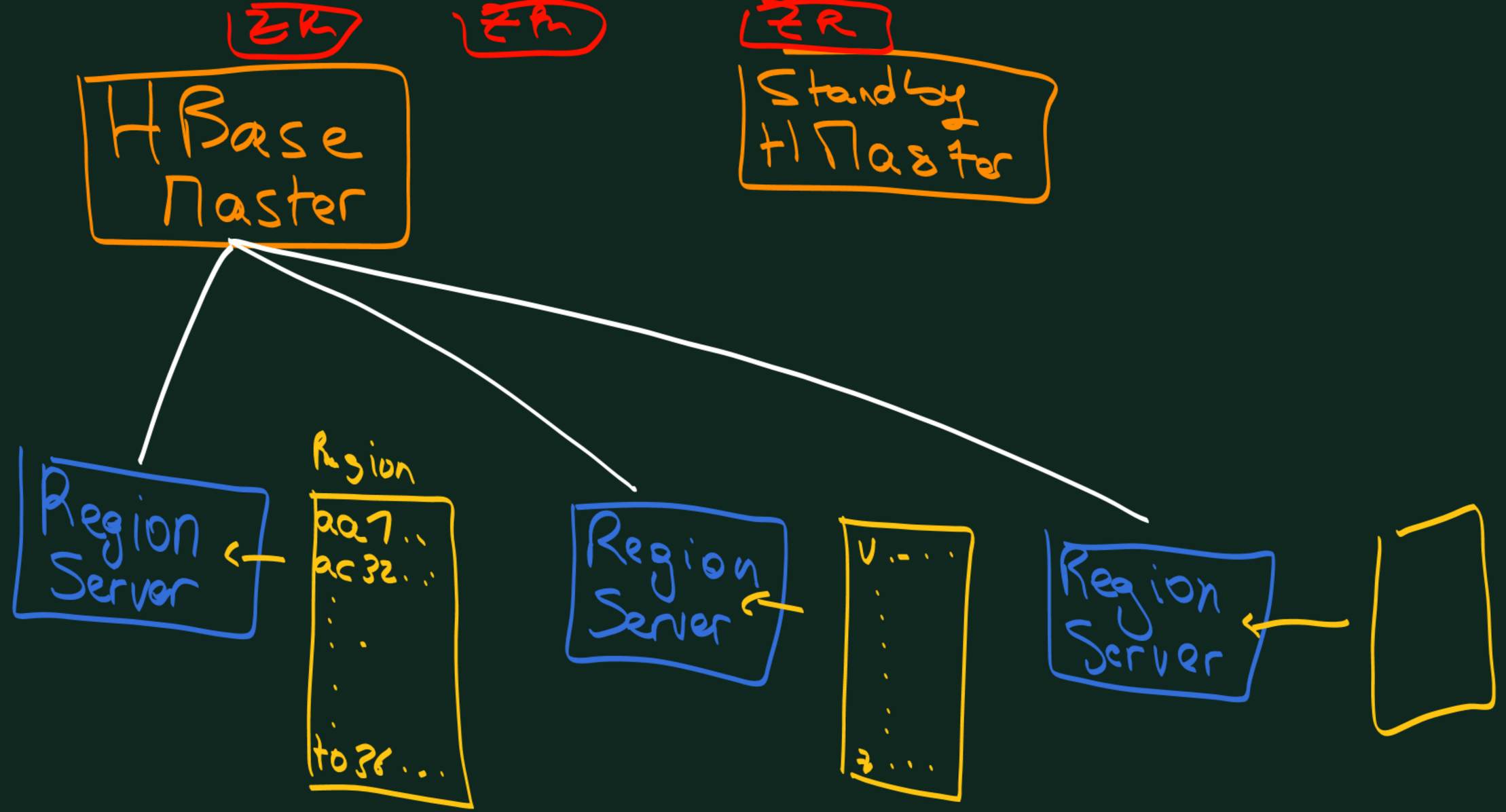
HBase Table (Person)

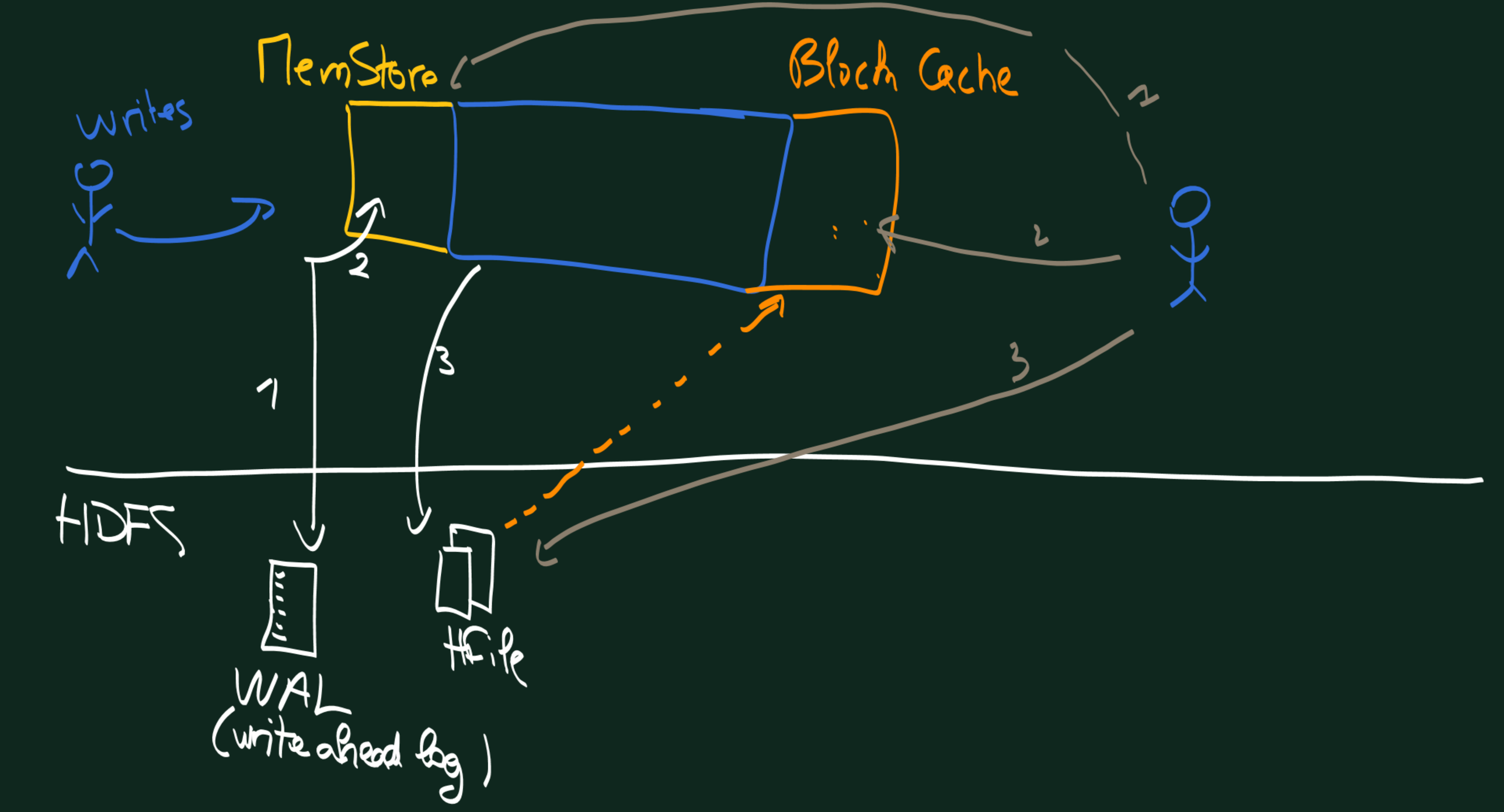


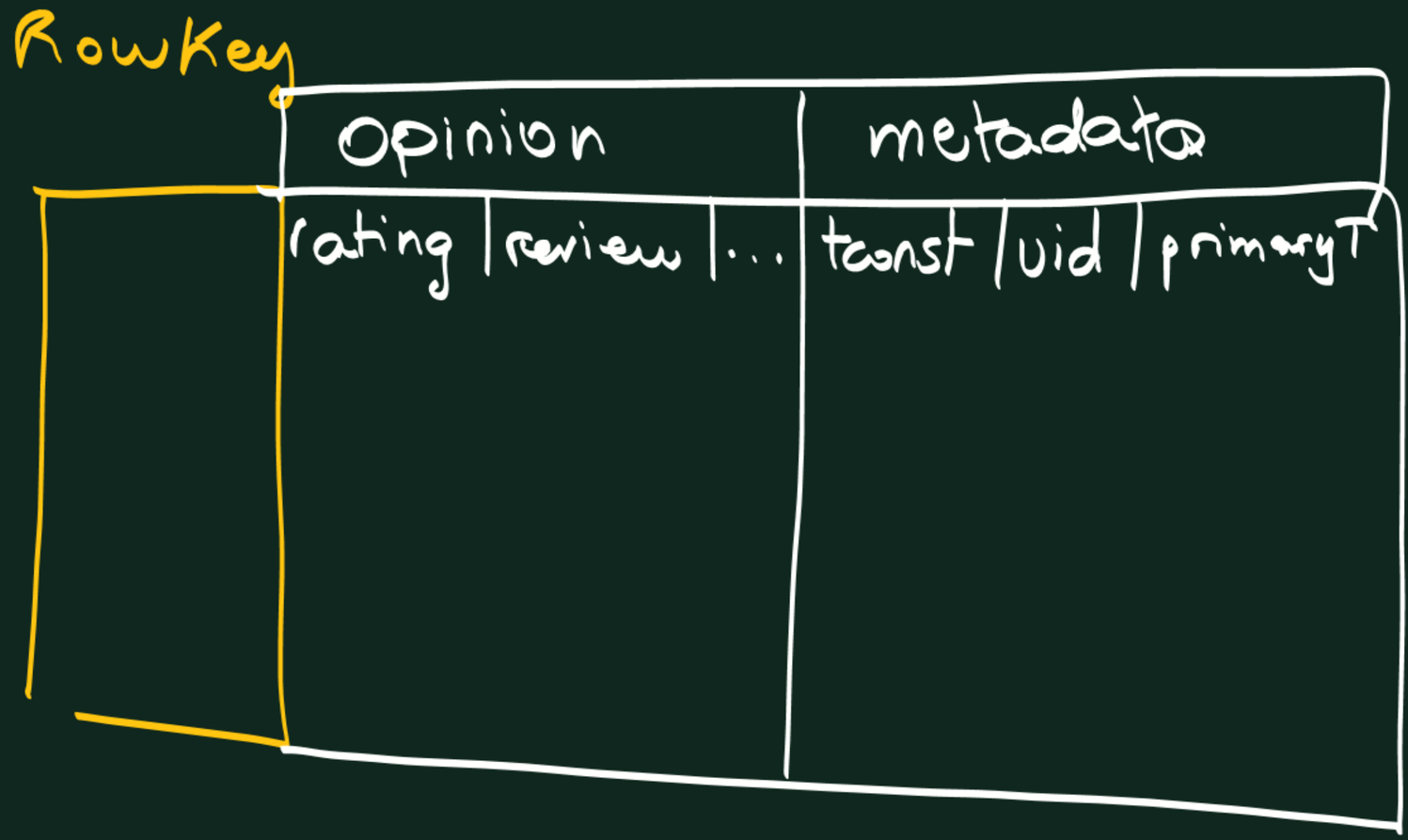
Column Families

Columns

```
put 'person', 'rk1', 'physical:height', '174'
put 'person', 'rk1', 'admin:name', 'John'
```


ZK
ZK
ZK
HBase Master
Standby HMaster
Region Server
Region
aa7...
ac32...
to3f...
Region Server
v...
z...
Region Server


MemStore
Block Cache
writes
2
2
2
1
3
3
HDFS
WAL
(write ahead log)
HFile



RowKey: "foto" + 42 + uid + rating ? (bad example)