Part - II

Cassandra don't need vector clocks

Tused for conflict resolution
How????

reference - date Stan Blog

Key = mandeep

volues vo = {\'email':\'msdeep14.ms@gmail.com'\
'phone':\'nhi bataunga'
}

I update email address

olatabase cluster

Vi = { 'email': 'msdeep14.ms@msdeepSingh.com,

'phone' : 'nhi bataunga'

to network issue update phone no.

read from replica1

V2 = 2 'email': 'msdeep14.ms@gmail.com' and update et.

'phone': 79825232443

In general, last write wins algorithm picks most recent

write -> VI is discarded and V2 is picked up.

For rector clock, both VI and V2 are retained.

Tehrn both versions to went on next

Tead and client can merge as appropriate.

lssues with vector clocks

① Performance → updating a field requires

4 mud & descriptive existing object

4 update field

4 serialize and write back aftigut

2 Stblings > multiple versions generated by conficting updates.

3 vector clock don't actually specify how to resolve the conflicts.

solution in place @ Consandra

Grows is broken into columns and updated independently.

```
CREATE TABLE users (
    username text PRIMARY KEY,
    email text,
    phone text
);

INSERT INTO users (username, email, phone)
VALUES ('jbellis', 'jbellis@example.com', '555-5555');

UPDATE users SET email = 'jbellis@illustration.com' WHERE username = 'jbellis';

UPDATE users SET phone = '444-4444' WHERE username = 'jbellis';
```

Benefits

Deouglists can be resolved automatically.

Dasis timestamp

Pach column has ite own

timestamp value.

See you in next video
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