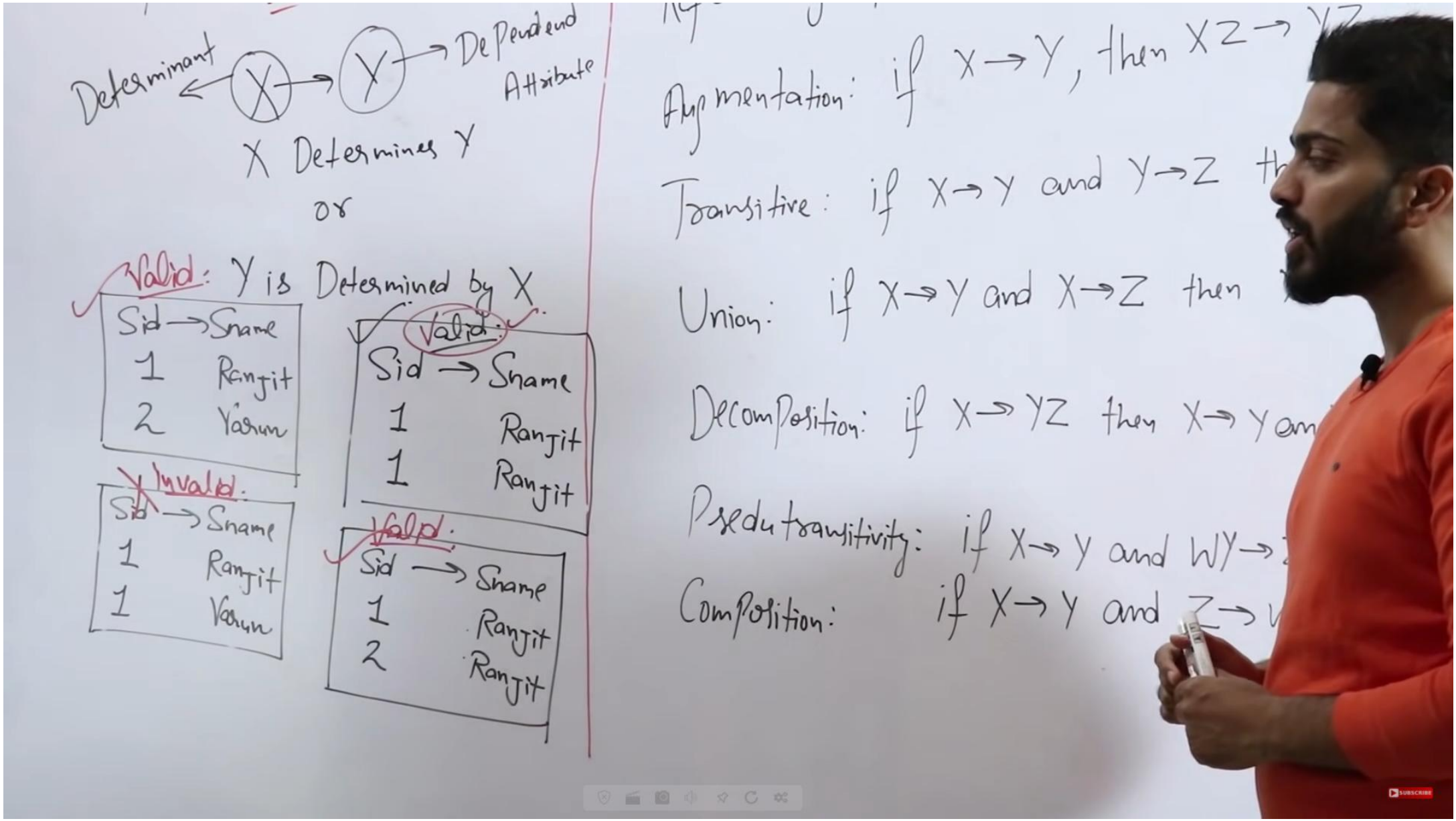
Determinant
X
Y
Dependent Attribute
X Determines Y
or
Valid: Y is Determined by X
Sid → Sname
1 Ranjit
2 Varun
Invalid.
Sid → Sname
1 Ranjit
1 Varun
Valid.
Sid → Sname
1 Ranjit
1 Ranjit
Valid.
Sid → Sname
1 Ranjit
2 Ranjit
Augmentation: if X → Y, then XZ →
Transitive: if X → y and y → Z th
Union: if X → y and X → Z then
Decomposition: if X → YZ then X → y an
Pseudotransitivity: if X → y and WY →
Composition: if X → y and Z →
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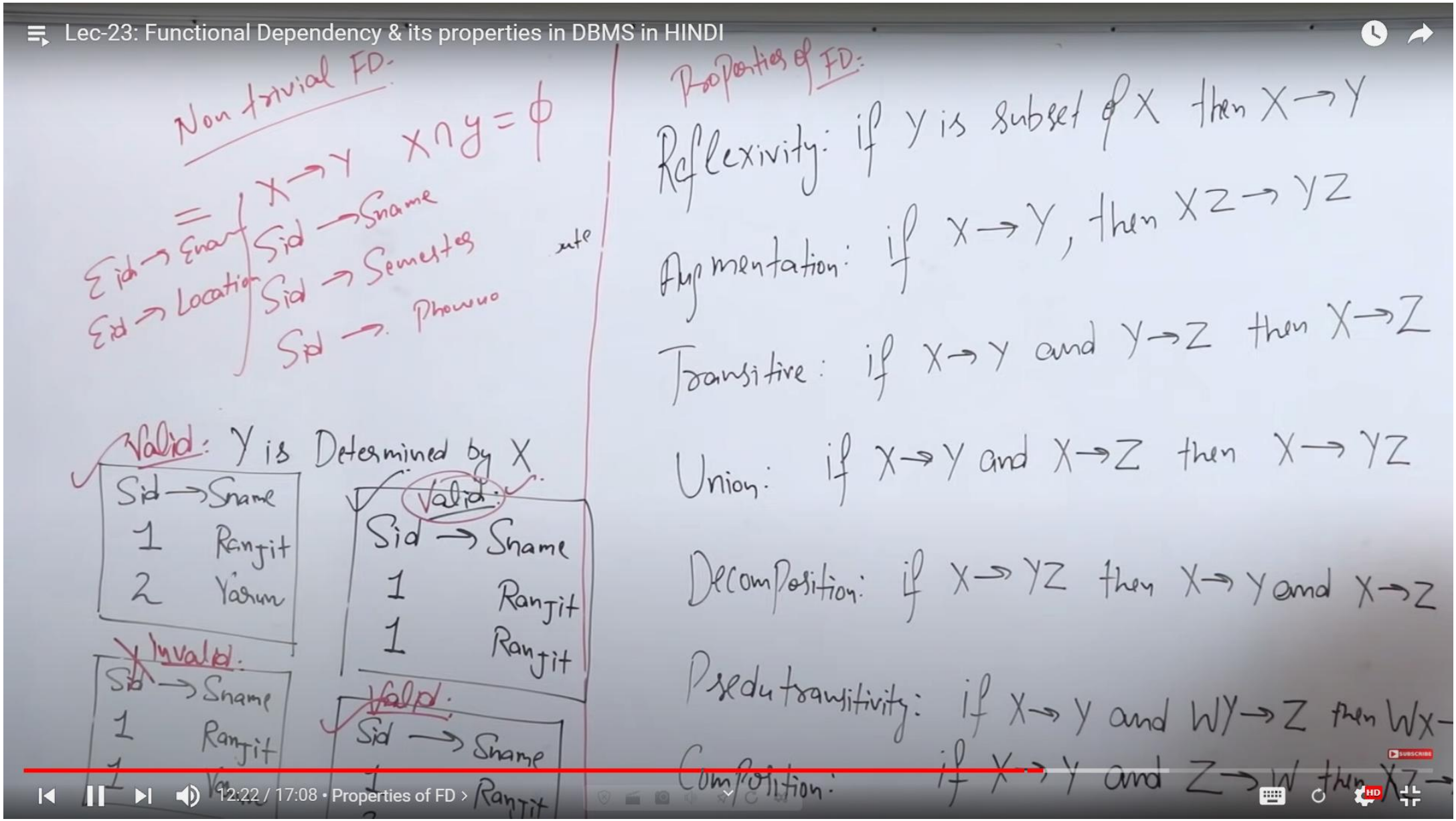
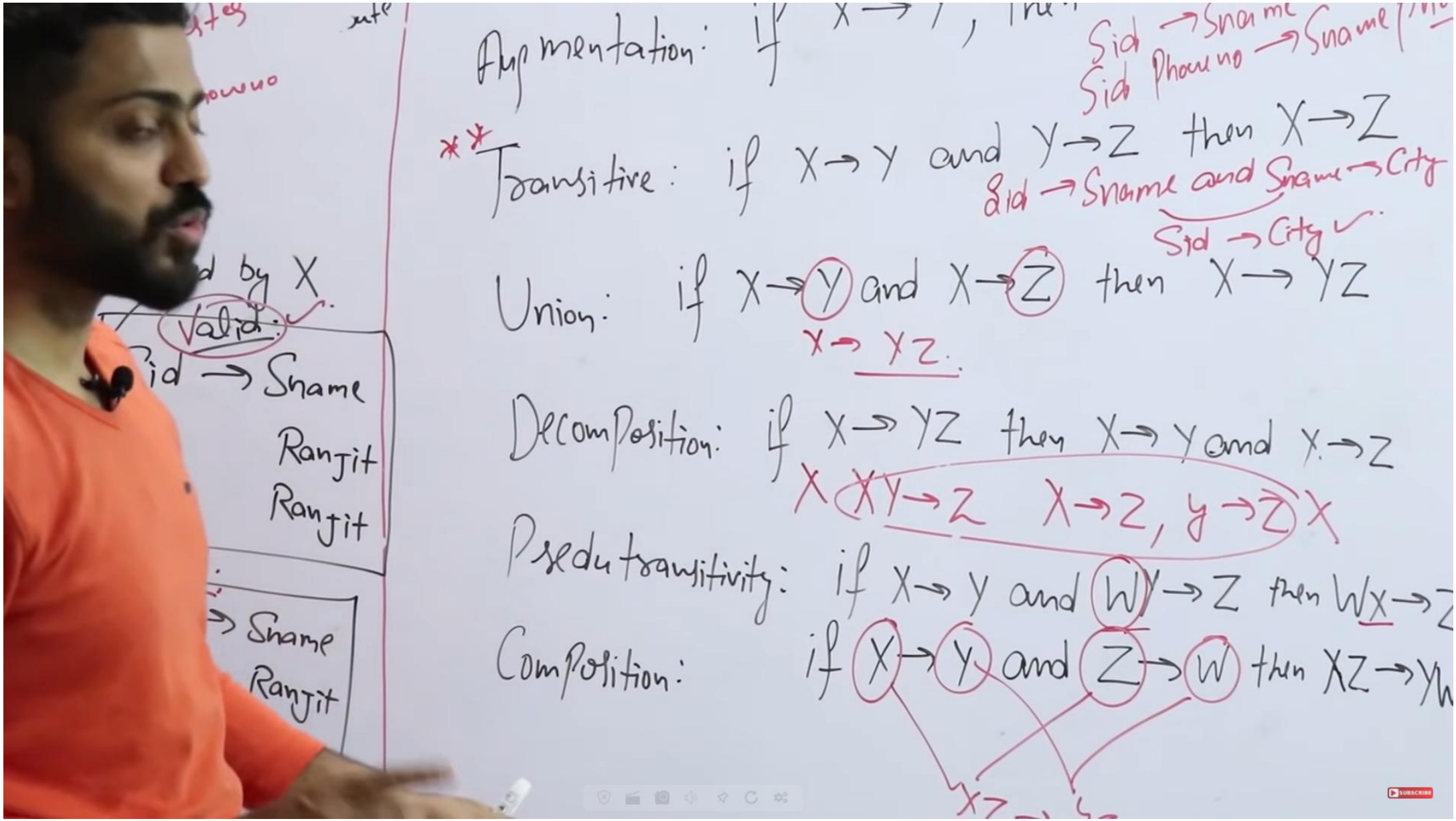

Lec-23: Functional Dependency & its properties in DBMS in HINDI
Non trivial FD:
X ∩ Y = ϕ
Eid → Ename
Eid → Location
Sid → Sname
Sid → Semester
Sid → Phoneno
Valid: Y is Determined by X
Sid → Sname
1 Ranjit
2 Varun
Invalid.
Sid → Sname
1 Ranjit
Valid.
Sid → Sname
1 Ranjit
1 Ranjit
Valid.
Sid → Sname
Properties of FD:
Reflexivity: if y is subset of X then X → Y
Augmentation: if X → Y, then XZ → YZ
Transitive: if X → Y and Y → Z then X → Z
Union: if X → Y and X → Z then X → YZ
Decomposition: if X → YZ then X → Y and X → Z
Pseudotransitivity: if X → Y and WY → Z then WX
Composition: if X → Y and Z → W then XZ
12:22 / 17:08 • Properties of FD


Augmentation: if X → Y, then
Sid → Sname
Sid Phoneno → Sname
** Transitive: if X → Y and Y → Z then X → Z
Sid → Sname and Sname → City
Sid → City
Union: if X → Y and X → Z then X → YZ
X → XZ.
Decomposition: if X → YZ then X → Y and X → Z
XY → Z X → Z, Y → Z
Pseudotransitivity: if X → Y and WY → Z then WX → Z
Composition: if X → Y and Z → W then XZ → YW
d by X
Valid:
id → Sname
Ranjit
Ranjit
→ Sname
Ranjit