Relational Algebra: A formal query langu	age based on a set of operations on relation
fundamentel operation	
Select	· Set difference
Project Catiférian product	· Set difference. · Rename
Adelitinal operation	
· Notrol join	· Dinsion/gnotient
· Thereehon	· A - join
Above operations DOES NOT MODIF	
Above operations DOES NOT MODIF	Y the database/ record

SELECT operation (O) > Enlive now serisfing and is Ci serisfing and is Ci this is a unary operation defined on night relation year=2016 O'Show/ relact all the book records having publication year = 2016 Acc No > 10000 (book) _ 1000 1 × 7es (ALL NO > 10 000) 1 (year = 2016) (book) 2015 X 999 2016 X

C:= (aceno 7 10000) Cz:=(year = 2016) 16502 2011 100002

SELECT ALL the books WHERE title is DBMS AND year of pub. is 2020 from book

relation

Aceno Year Title
1005 2020 DBMS
10012 2020 DBMS

year 7 = 2016

Mol,

Préjection (tt) foller er one relation or argument and produces organistic relation or on off. this is also on UNARY oferation Book (acc no, file, Year) Taceno, title accus title accus title

Title (book) Ans:

Ace No Site

Year 2020 JBM5 20 19 A002 Ans 3 2016

DBM5

Selection & Projection poste Ace No | title 2020 DBMS 2016 A002 A003 2016 2016 title Find the book titles which published in 2016

y ear AceNo fite 2020 2020 DBMS. 2019 20 19 A002 2016 2016 Aro3 2016 fitte Year 12016 2016 DL 2016

Mot always the same H.W. : Chave with some examples

 $= \tilde{\gamma}(A') \times \gamma(B')$ b = r(B) $\alpha = \gamma(A')$ rows and clumps ~; # 5 cm = 6, # cd = 2,

a 1. Y. B J # sow = 6 # cd = 4

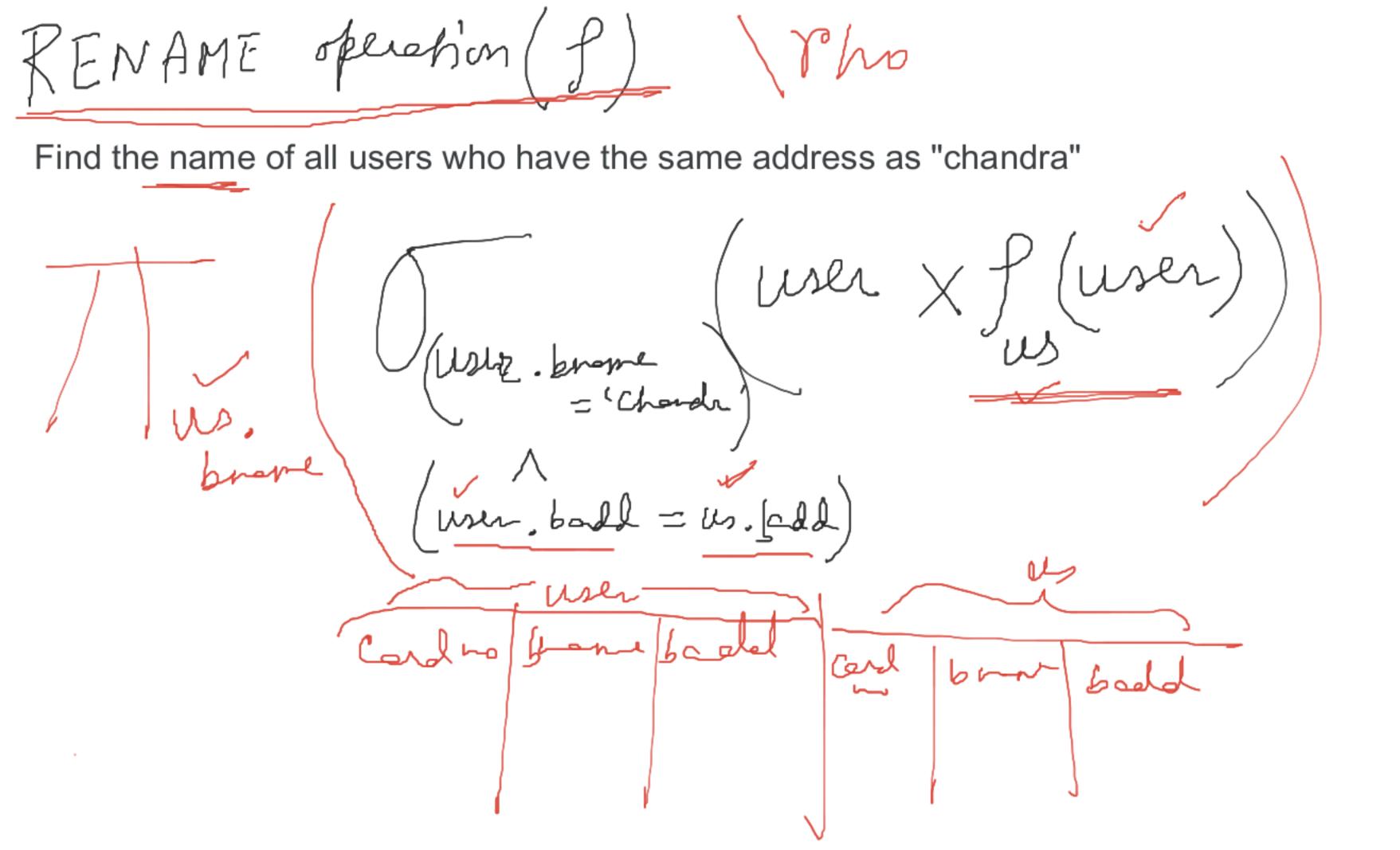
7 =	ash X borrow ha	s how many
Jr	ash X borrow ha	attorbutes?
	U. Card no, U. brome, U. b	
	b. aceno, b. condro, b. date	

Find acc. no.s of all books issued to "chandra"

Jaccno (u. cardro = b. card m)

Taceno (User X borrow) - Macera posson

b rome 1 bacc 244/129 1240129 A50 24012 Arol A002 -> 205224 120 0224 C802 1,200) 2,9



of relation of relation