Normalization

It is the process of determiny how much redundancy exist in a stable & it gives us techniques to reduce it.

-> any attribute must only contain atomic values.

(indivisible)

S-id	s - name	S - course
1	Sarthak	DBMS, OS, OSA,
<i>&</i>	Sanket	22,42Q

DSA -> Date Snouten & Algo

NAM

5-id	S-nam	S_(0015 %				
1 1 2	Sorter South South South	OBMS OSA OSA				

Sid -> Sname Sid, snow -> Sname

Second Normal from - 2Nf She table should not have partial dependenciand the table should be already (NF S-id C-nance total marks 1 DSA SGO

20

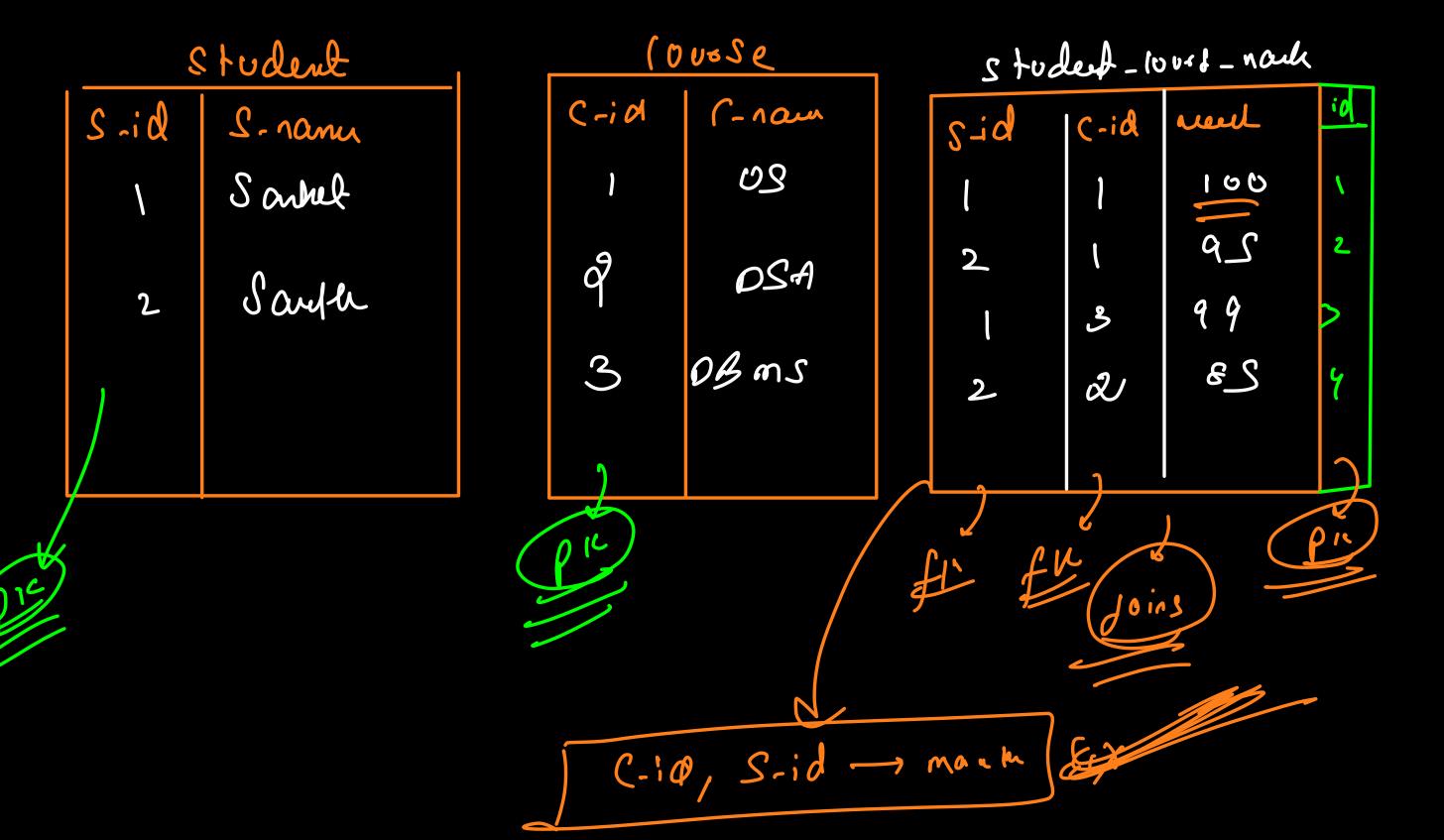
OSA

100

0

100

500

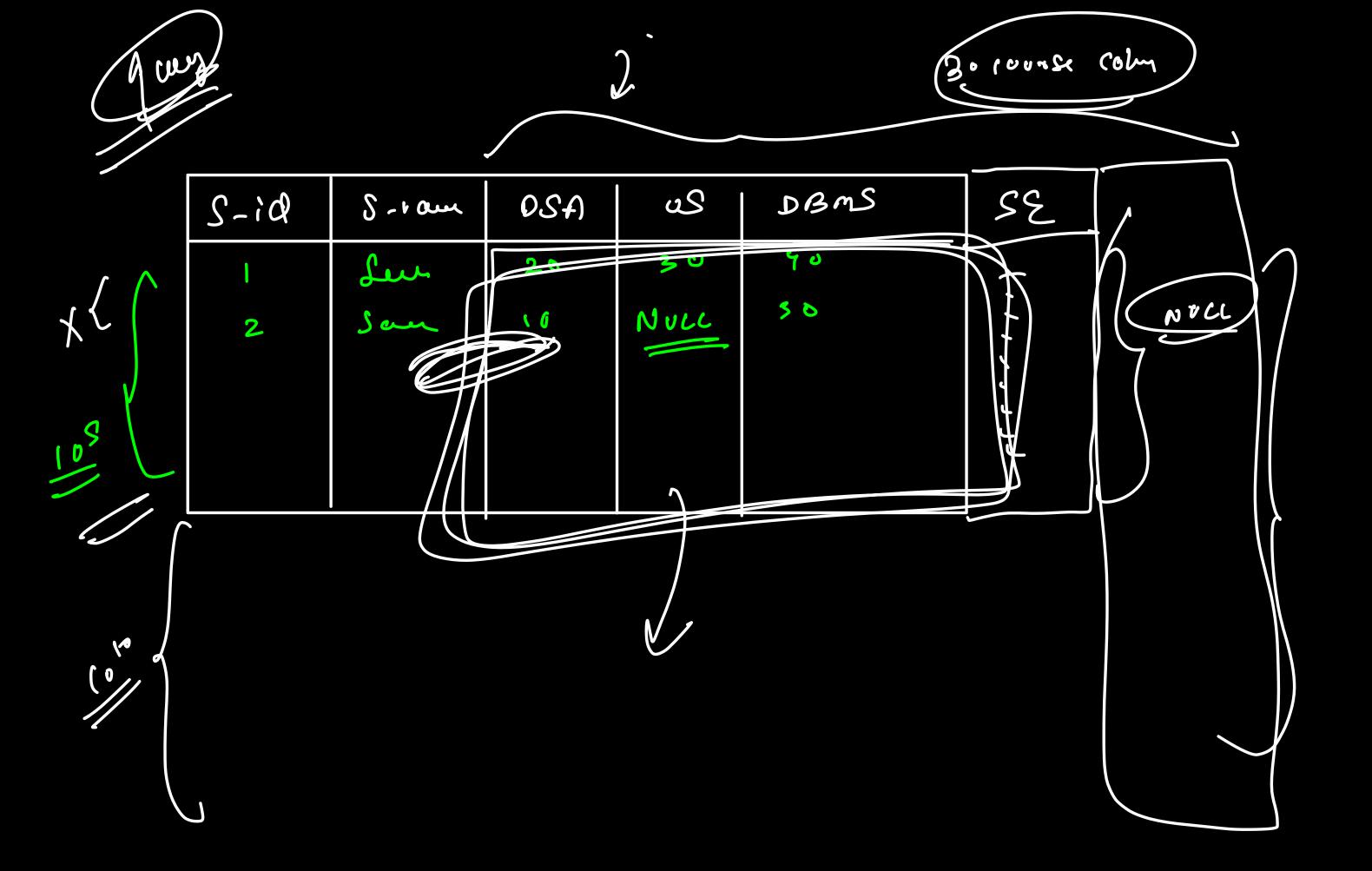


n/oojectid e-adlm c-id e_age C_1ame Q-1 Abc 11 21 dy Q_2 21 12 13 9-3 21 14 9-2 21 21 12 9-3 RHS Should be completely C-id --> c-name Dependent on LHS, 107 e-name (e-id,p-id) Pro just Cmp - 1001 - 1014 e mp e-id c-id C-nen

0(~)

O (M) THE DARKSIDE

(n m)



Phird Normal from > 3Nf in 2Nf S The table Should be bonsiles dependey y 17 Should have Ton e-id e_name e-phn C_stay e - 2: p abc 31 12345 State dy 3,1 12345 State _ ne e - i a State - ic e-nen 110623 180009

	А	В	С	D	Е	F	G	Н	ı	J	К	
1	Customer ID	Item	Shipping address	News Letter	Supplier	Supplier phone	total order price					
2	A	XBOX	35, Rohini, delhi	XBOX	MS	123	250					
3	В	PS5	24, Hoodi, Banglore	PS	Sony	456	300					
4	С	XBOX, PS5	12, Amanora, Pune	XBOX, PS	Wholesale	789	450					
5	D	PS5	34, Varansi, UP	PS	Sony	456	300					
6												
7												
8												
9												
10	Customer ID	Item	Shipping address	News Letter	Supplied	Supplier phn	item price					
11	A	XBOX	35, Rohini, delhi	XBOX	MS	123	250					
12	В	PS5	24, Hoodi, Banglore	ps5	Sony	456	300					
13	С	XBOX	12, Amanora, Pune	xbox	Wholesale	789	250					
14	С	PS5	12, Amanora, Pune	ps5	Wholesale	789	200					
15	D	Ps5	34, Varansi, UP	ps5	Sony	456	300					
16												
17												
18												
19	Customer Table			Items				Supplier				
20	Customer id	shipping address		Name	Newsletter	item_id		s_id	s_name			
21	A	35, Rohini, delhi		XBOX	XBOX	1		1	ms			
22	В	24, Hoodi, Banglore		PS5	PS5	2	2	2	sony			
23								3	wholesale			
24	Customer_item_join / order											
25	c_id	item_id		ITEMS_SUPPLI	ER_JOIN							
26	A	1		Item_id	s_id	price						
27	В	2		1		1 250						
28	С	1		2		2 300						
29	С	2		1		3 250						¥