

Two options for the of this table:

do this () Combin of both fle, can be

always, until considered as the (student-id, bother-id)

there is a strong

reason, not to 11) add a third chum, called id,

do and generate the

In a scenario, where there is a relationship of the mapping table, with something else

	·			Assignum	wts	
îd [	Student_id	batel-1d	_ \	voire	Rues	15pic
	Student Pr	a botch	(		1	
		0		M	)	
		(M) (			)	
		Min	4			

) composite => pre (student-id, batch-id)

comparte bey (s-b-id)	assignmentia

11) Id Demin

ld	arrignment id
	·
\	

=> why prefer composite pre? Student batch

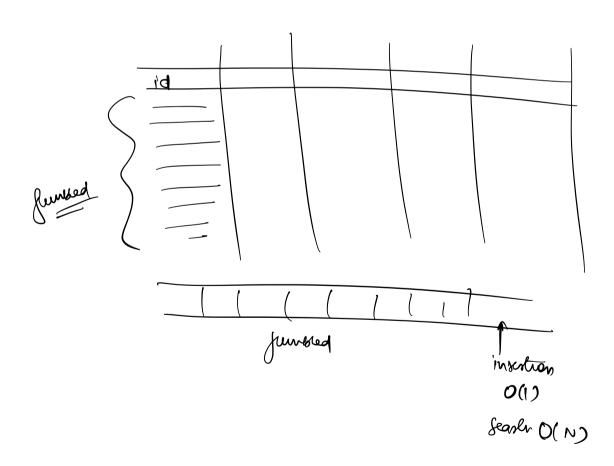
P 1

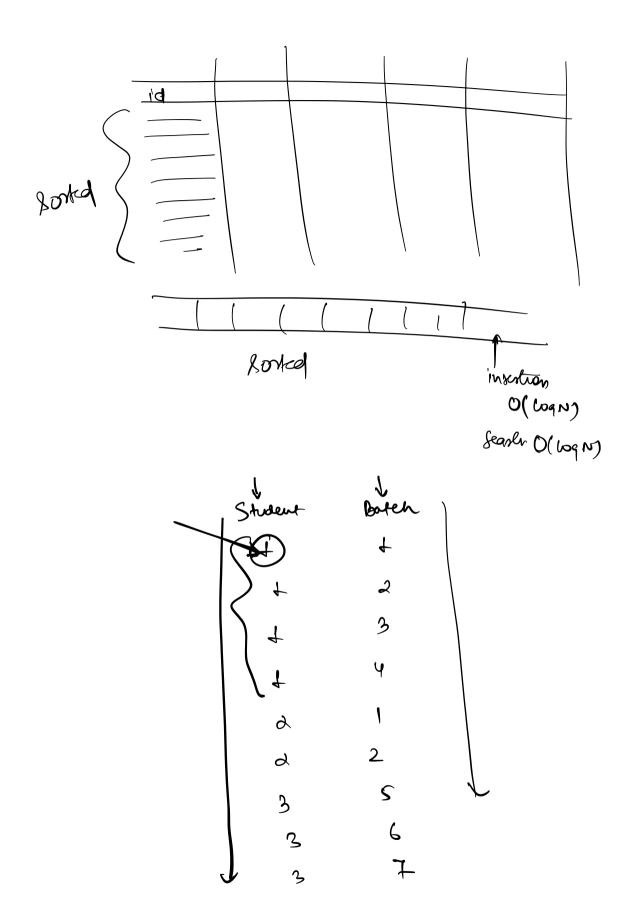
Pt the ple composite is (S-id, b-id) then

if indexed the data usu be first sorted

by student [S-id].

Vivear Search => O(N) Brivary Search => O(LO9N)





## => T:T (T:W | W:T >

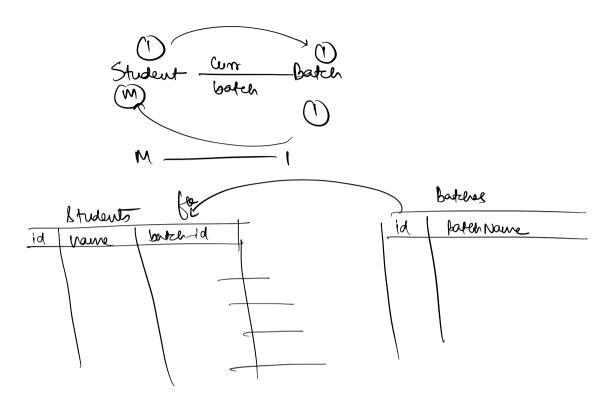
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(b)	rame	wik-id	`	ia	Nome
7		nuy			
2	+	<u></u> ← ↑ /	(		
کی ا		+ nue			
<u> </u>		mul _			

{ 5 muion entries - shusband table 2 million got a wife

3 million culls as null => huge space wastage.

This Ps an example where selationaling table can have sparsed entres as fle.

=> Create a mapping table to Some space



No of null botch-1d = 1200

Mapping table	
Student-id	batch-iq
entries /	
<i>No</i> :	
nuls \	
	`

Muslænde

id vame wife id 

Abox 1

Abox 1

id vame wife id warraigdak first first engannet for surganet for surganet

dont store on info in husband table, because a lot of attributes are dependent on the mapping of husband and wife

Marraige Dota

Id husbenelid	wife-id	woman'g	enfagement	money spent	eni
					wan

SCENARIO CARDIANALUTY	Normal	l parse	attributes	
1:1	pk of one taske to another orde as fix	Mapping table	Mapping table	
or W:1	ph of one table to another orde as the	Mapping tayle	Mopping talgle	
M:M	Mapping talsle	Mapping table	Mapping table	

=> Types of Data Types => [ myser e]

1) String

11) Integers

m) front

maddod (u

N Evm

UI) Dote / Time

402T (11)

un ) BLOB

## -char(x)

- varebar(x)
- String of variable length
- Enissal 1 or 2 bytes one lapt for maintaining
longth, of the string.
ens "ab" => dab
$\begin{bmatrix} a \end{bmatrix} \begin{bmatrix} a \end{bmatrix} \begin{bmatrix} b \end{bmatrix}$
" abcdtas" of a b cd 123
3 [] a b []
" also dely " - =350 Werracter"
200 1 <u>c</u> 61 <u>c</u>
= name, email, address, frueils
TINY TEXT PEXT MEDIUM TEXT LONG TEXT

MEDIUM TEXT

IPMD

64 M

9220

LONG TEXT

ex => BlogPost, Articles, Regearly paper

## 11) <u>Dutegers Dota type:</u>

TIMPINT  $\longrightarrow$  1B  $\Longrightarrow$  -128 to 127 UNSIGNED TIMPINT  $\rightarrow$  1B  $\Longrightarrow$  0 to d55 SMALLINT  $\longrightarrow$  2B  $\Longrightarrow$  [-324, 324] MEDIUMINT  $\longrightarrow$  3B [-8M, 8M] (NT  $\longrightarrow$  UB [-2B, 2B] BILLINT  $\longrightarrow$  8B [-92B, 94A]

## (11) Front types;

a) Decimal (p, s) laught after decimal

total

laught