Today's Agenda :-

- 1) Schema Design for Scaler Continued ...
- 2) Deciding Painary Keys of mapping table
- 3) How to supresent Frums?
- 4) Represent indixes
- 5) Netflix Schema Design Can Shidy

Now to approach Schema Design? 1) Scalen will have multiple (batches) About each batch, store their name, Start mouth and current (instructor) y Each batch of Scaler will have multiple (Students $\begin{array}{cccc} 1 & m \\ B & C & m:m \end{array}$ 3) Fach batch has multiple classes 4) for each class, store the name of the class, 1 date I time of class, instruction of class. m 5) For every student, Stone their name, grad year, University name, email, phone number $\Rightarrow \hat{S} = \hat{S} \cdot \underline{m} \cdot \underline{m$ 6) Every student has a buddy who is also a student 7) A Shedent may move from one batch to another. 8) For each batch a student goes to we have to Shore the start date of that batch: S M:M:1, 9) Every student also has a (mentor.) For every mentor, &bre their name and current company

name.

- (10) We have to store info about all mentar sessions done the time, duration, Student, mentar,

 Stud-natury, mentar natury. Mentarsession Student

 mentar
 - 1) For every botch we have to other info if it is Academy batch or DSML batch:

batch type (var chas)

"Academy"

"Academs"

"Academs"

"Academs"

batch id Name Start-month instanctor is batch type id

instructors

instructors

Name phone email arg-sating

instructor_id

Stu dents							Self
Student_id	name	email	Phone	gradless	l Or	iev-Name	Referential FK
				d menter			·
Classes						also a	St_id
						in the	same table
class_id	name	Sch	edule	instructor	-1d		
mentoss							
menton_	id na	me c	urrent_	Company			
				O			
mentoa o	Resions						
mentor Sess	ion_id	time	duration	m St-rati	ng	men_aabiu	r de la companya de l
				St. id n	nento	n-id	
batches	classes						
batch_	id cla	s-id					

Students_batches

St-id	b-id	move_date

Batch	Types
id	type
	"Academy"
2	" Dsm."
3	"MLAC"

Enums: - used to represent well defined constants.

enum Gender L

MALE,

PEMALE

Mapping Table

Batch Types

type
"Academy"
"Dsm"
"MLAL"

* Deciding Painacy Keys of Mapping table :-

Students_batches

			- Create an
(St_id)	(b-id)	move_time	index.
			\Rightarrow (st_id , b_id) PK
2	3	24/05/24	
2	4	2/07/24	
		,	data_co
3	3	25/06/24	Prakash Batch
			6 5 lotty
			6 I 21th Tely
			6 5 29th Aug

If it's allowed for a student to join the

Same batch again:

		(St_id, b_id, move_time)			
(id)	St-id	b-id	move_date		

Advantages of Separate key:-

Saves space because indering size will be small.

Advantages of Not having Sep Key:-

Queries are faster on (b-id, \xi-1d).

Regresenting fk & indixes :-

 (E_1) (E_2)

San by default creates index on pk of every table.

Always Endering gets governed by use cases.

Pleas talk about indices at the end-

- 1) Create the lables
- 2) Add the ph (id) to each table
- 3) Add other attributes
- 4) Represent Cardinalities (FK)
- 5) Pudue based on use cases

5 Step

approach

for

Schema (

Dengin

6 Min break