

User

id ← PK
name
email
password ← enry
:
:

Questions

id ← PK
title
desc
user-id ← FK

Like

id ← PK
likeable-type → enum
likeable-id →
user-id

Answer

id ← PK
content
user-id ← FK
que-id ← FK

Comment

id ← PK
content → root-cause-id
commentable-type → enum
commentable-id → FK
user-id → FK

Topic

id ← PK
name

question-topic

question-id
topic-id

Follow

id ← PK
followable-type → enum
followable-id
user-id

(emp-id, org-name)
~~non-key~~

emp-id	org_name	team-lead
1	amazon music	Abc
1	amazon/psg	def
2	amazon/psg	def
3	amazon/psg	ghi

→ 1NF ✓
 → 2NF ✓
 → 3NF ✓

→ Part of candidate key
 primary
 non-primary

(team-lead → org_name)

→ 3NF ✓

for any dependency $A \rightarrow B$, A should be super key

BCNF → Boyce
Codd

e-id	templ-id

Org

id	name

Peasheed

e-id	org-id

A \rightarrow B

e-id	e-country	e-dept	dept-type	dept-id

$e_id \rightarrow e_country$

$e_dept \rightarrow dept_type, dept_id$

candidate key $\rightarrow (e_id, e_dept)$

e-id	e-county

dept		
dept-id	type	name

e-id	dept-id

4NF \rightarrow BCNF ✓

\hookrightarrow it should not have multi value deps

s_id	s_course_id	hobby_id
1	1	1
1	3	2
1	2	2
2	2	3
2	3	1



s_id	c_id
1	1
1	3
1	2
2	2
2	3

s_id	h_id
1	1
1	2
1	2
2	3
2	1

RDBMS

→ associative

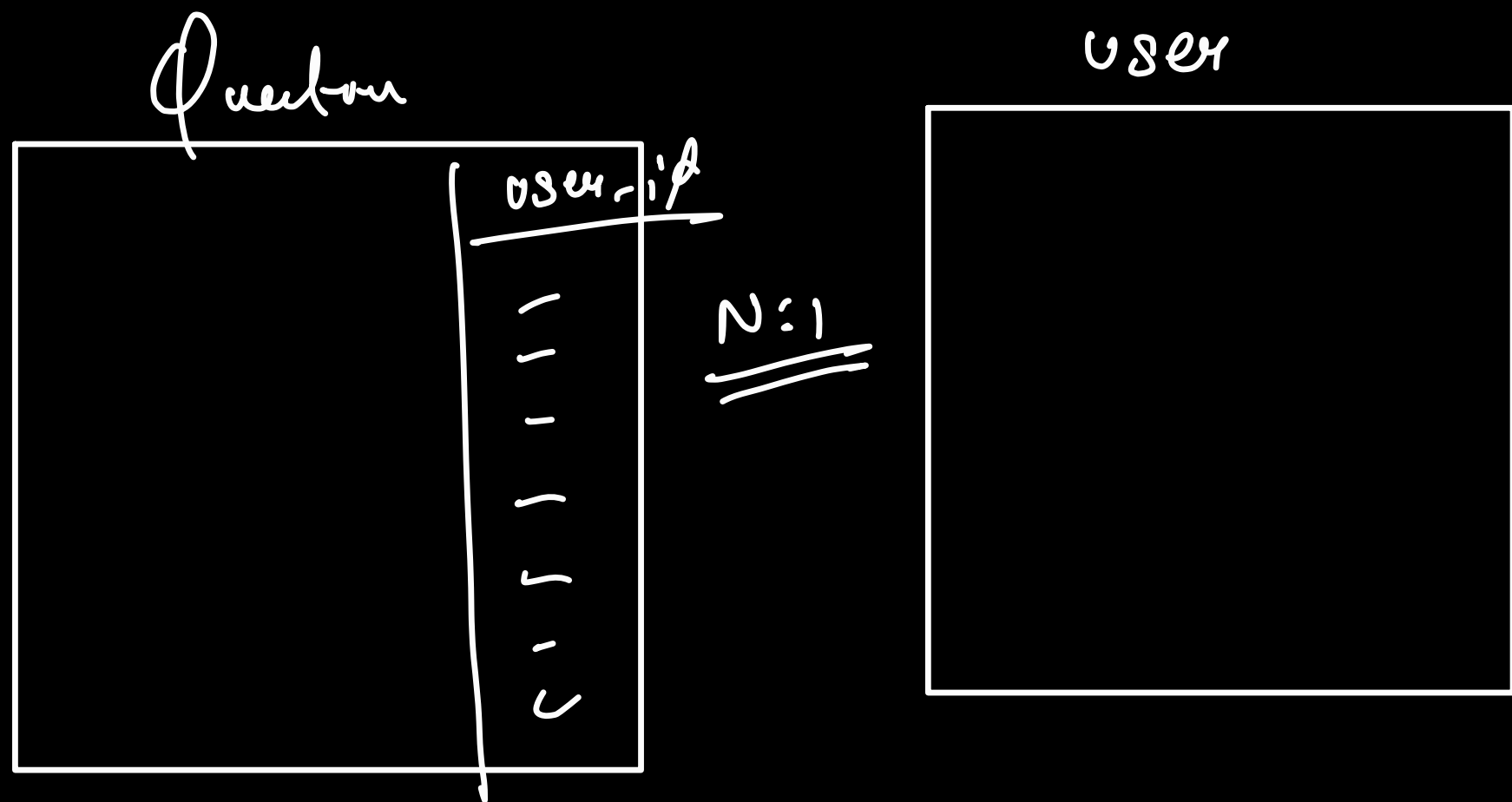
students

	p-id
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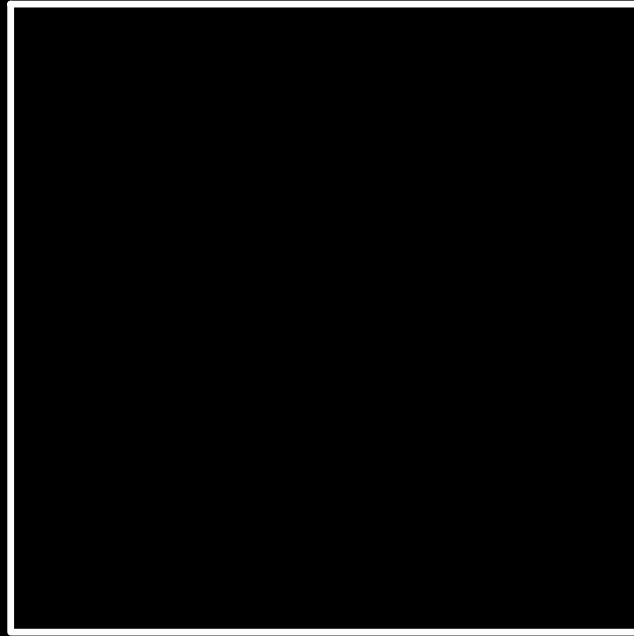
1:1

project

	s-id
--	------



Users



Many to many

N:M

Movies



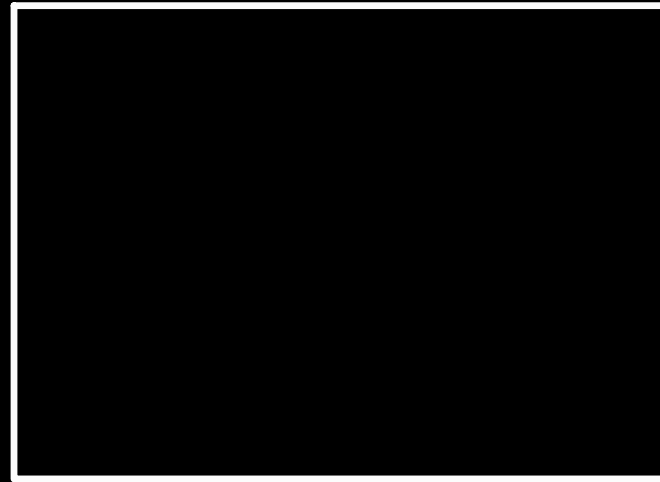
user-book,

user_id	name	brief

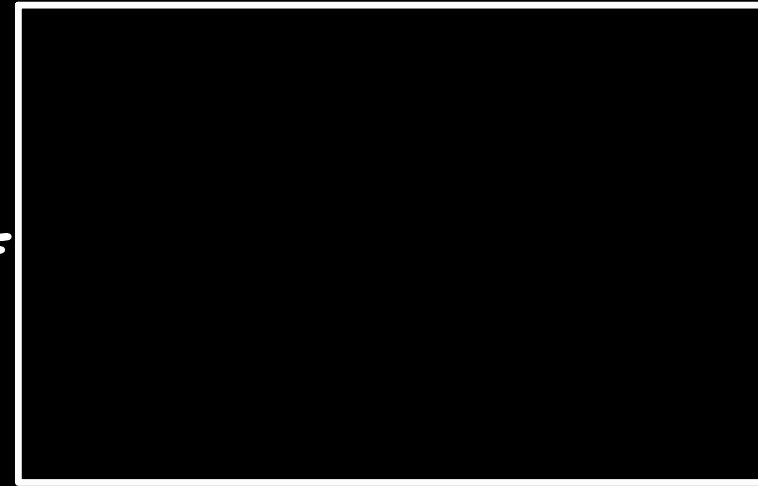
2
join

↓
through table

doctor

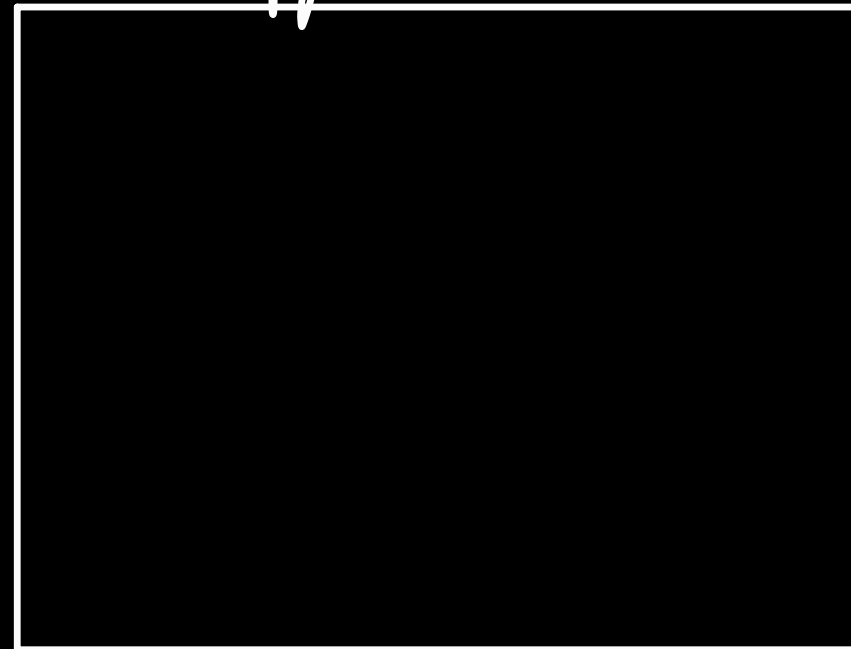


patient



N:W

appointant



→ join / Hoople