How to design a database

To execte a database, we need to work out.

Lo How will the data be stoned?

Determine the tables and attributes.

Step 1: Write down the idea or sequirements

ex: - SOCEAL NETWORKENG APP

allow wens to upload photos, comment on photos, tag other wers, like photos, and post text updates.

SCHOOL WEBSETE

teachers to enter timetables for classes, and allow teachers to enter timetables for classes, and allow teachers to record attendance for classes

DOCTOR APPOENTMENTS

allow patients to book a doctor appointment on a specified date and time with a doctor, yecond when the patient anywives at the clinic, and yecond when the patient has completed their appointment with the doctor.

Step 2: Identify Nouns

allow Patients to book a doctor appointment on a specified date and time with a doctor, second when the Patient assives at the clinic, and second when the patient has completed their appointment with the doctor

These yours are used to execute tables.

Mos to dolly a dalaky

Tables

	patient		appoin	nlment	1,4	docton	
key	field		key	field		key	field
;	1	Y had a line		L FC V	13	111	- 1 N

clinic key field

8tep3: Add Attributes

Batie	nt	ap	bointment
	first-name		appointment-date
	last-name		appointment time
	date of birth	V	doctor
	1	1	patient
		· i 1	patient arrival-time
docto	Y		completed time
F	irst_name		1
1	ut-name		

clinic name

__/_/

Step4: Add yelationships

patient			appointment				
PK	id	+	7			appointme	nt-date
	first-nam	e			9	appointme	nt-time
last-name date-of-birt			4		FK	patient_id doctor_id	
ź			5			ayyival	
						completes	
do	doctor				FK	clinicid	
PK	id	+-	\mathbf{I}_{ϵ}			A A	, , , , , , , , , , , , , , , , ,
	first name	2					
last-name		4.				clinic	
				1	PK	id	
						name	
						addyess	

Step 5: Assers tables, fields and adjust

- · Perhaps a patient has a preferred doctor. So, we could link patient and doctor table
- . A doctor work at a clinic. We could link them together.

8tep6: Mormalisation fother steps

· Every table should have a primary key.

· Add PK field to appointment table.