

Mga ka-tropa, heto, isang demo/tutorial kung paano mag “design” ng database nyo. NAPAKA importante na maganda at maayos ang structure ng inyong database.

Shortcut ito kung ayaw nyong magbasa ng LIBRO tungkol sa RELATIONAL DATABASE DESIGN Ito yung main concept at kung bakit kailangang “AYUSIN” ang structure ng database.

\*\*\*\*CASE #1 \*\*\*\*\*

STUDENTS							
id	firstname	lastname	age	course	school	gender	level
1	Jose	Cruz	20	BS Nursing	University of Sto. Tomas	male	third year
2	Ken	Vaida	18	Computer Science	Mapua	male	first year
3	Khay	Santos	21	HRM	University of the East	female	fourth year
4	Lyne	Samonte	24	BS Accounting	University of the Philippines	female	first year
5	Anton	Duterte	26	Aeronautics	Airlink	male	fifth year

FIG. 1

Itong table na ito (Fig. 1) ay mukhang maayos naman pero sa totoo lang pag lumaki na ang laman ay mahirap at magiging magulo na ang data.

- for example, “paano kung si Jose Cruz (id: 1) ay kukuha uli ng isang COURSE...say BS Civil Engineering” ..then ang mangyayari ay mag i-insert uli ng isa pang row para kay Jose. (see Fig 2)

STUDENTS							
id	firstname	lastname	age	course	school	gender	level
1	Jose	Cruz	20	BS Nursing	University of Sto. Tomas	male	third year
2	Ken	Vaida	18	Computer Science	Mapua	male	first year
3	Khay	Santos	21	HRM	University of the East	female	fourth year
4	Lyne	Samonte	24	BS Accounting	University of the Philippines	female	first year
5	Anton	Duterte	26	Aeronautics	Airlink	male	fifth year
6	Jose	Cruz	20	BS Civil Engineering	University of Sto. Tomas	male	third year

FIG. 2

So, dito pa lang sa FIG. 2 makikita na natin ang isa sa mga problema (at RASON kung bakit kailangan natin ayusin ang structure). DUPLICATION problem (see Fig. 3).

STUDENTS							
id	firstname	lastname	age	course	school	gender	level
1	Jose	Cruz	20	BS Nursing	University of Sto. Tomas	male	third year
2	Ken	Vaida	18	Computer Science	Mapua	male	first year
3	Khay	Santos	21	HRM	University of the East	female	fourth year
4	Lyne	Samonte	24	BS Accounting	University of the Philippines	female	first year
5	Anton	Duterte	26	Aeronautics	Airlink	male	fifth year
6	Jose	Cruz	20	BS Civil Engineering	University of Sto. Tomas	male	third year

FIG. 3

Binilagan ko yung mga duplicate data. Imagine this to happen to hundreds or thousands of data. That’s thousands and thousands of DUPLICATION problems.