

Table decomposition for group project

Wednesday, May 1, 2024

3:20 PM

Laptop

lid (primary key, unique) int,
company varchar(30) not null,
typeName varchar(30) not null,
inches real not null,
screenResolution varchar(75) not null,
ram varchar(5) not null,
memory varchar(50) not null,
gpu varchar(100) not null,
oS varchar(30) not null,
weight varchar(30) not null

in all caps lid looks like LID

Price

L_ID int primary key unique foreign key,
priceInRupees real not null,
conversion real not null,
priceInUSDollars real not null

Cant think of another table that would make it closer to bcnf, because I cannot think of any sort of decomposition that leads to a lossless join.

Pretty much nothing has to do with anything else but the L_ID and having a bajillion tables that only have L_ID and something else (like company for example) while it makes it closer to BCNF or 3NF it just feels like a waste of time and complexity when doing queries and adding more data, etc.

Functional Dependencies

L_ID -> OPSys