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What's a Boosted Post?

A boosted post is the easiest way to reach more people on Facebook.

What is Relational Database ?



Collection of information organized in tables



**Tables are constructed and
associated to each other through
shared fields**



**A set of attributes comprises a
record**



**Tables are related through common
fields designed as primary and
foreign keys**



**Allow us to find, update and delete
data quickly, and help to ensure
accuracy**



Primary key fields

**Fields must be unique and can't contain
NULL value**



Primary key fields

Fields must be **unique** and can't contain
NULL value

Each table should have a primary key field



Primary key fields

Fields must be **unique** and can't contain
NULL value

Each **table** should have a primary key field

Concatenated keys, using more than one
field



Foreign key fields

Fields in a table that refer to the primary key in another table



Foreign key fields

Fields in a table that refer to the primary key in another table

The data in this field must exactly match data contained in the primary key field



Workshop



Normalization ?



Nomalization

Eliminating redundancy



Nomalization

Eliminating redundancy

Ensuring data is stored in the correct table



Nomalization

Eliminating redundancy

Ensuring data is stored in the correct table

**Eliminating need for restructuring database
when data is added**



Five level of normal form !!



Five level of normal form !!

Third normal form is sufficient for most database apps



First normal form (1NF)

No repeating or duplicate fields

Each cell contains only a single value

Each record is unique



First normal form (1NF)

item	colors	price	tax
T-shirt	red, blue	12.00	0.60
polo	red, yellow	12.00	0.60
T-shirt	red, blue	12.00	0.60
sweatshirt	blue, black	25.00	1.25



First normal form (1NF)

item	color	price	tax
T-shirt	red	12.00	0.60
T-shirt	blue	12.00	0.60
polo	red	12.00	0.60
polo	yellow	12.00	0.60
sweatshirt	blue	25.00	1.25
sweatshirt	black	25.00	1.25



Second normal form (2NF)

All non-key fields depend on all components of the primary key



Second normal form (2NF)

item	color	price	tax
T-shirt	red	12.00	0.60
T-shirt	blue	12.00	0.60
polo	red	12.00	0.60
polo	yellow	12.00	0.60
sweatshirt	blue	25.00	1.25
sweatshirt	black	25.00	1.25



Second normal form (2NF)

item	color
T-shirt	red
T-shirt	blue
polo	red
polo	yellow
sweatshirt	blue
sweatshirt	black

item	price	tax
T-shirt	12.00	0.60
polo	12.00	0.60
sweatshirt	25.00	1.25



Third normal form (3NF)

No non-key fields depends upon another



Third normal form (3NF)

item	color
T-shirt	red
T-shirt	blue
polo	red
polo	yellow
sweatshirt	blue
sweatshirt	black

item	price	tax
T-shirt	12.00	0.60
polo	12.00	0.60
sweatshirt	25.00	1.25



Third normal form (3NF)

item	color
T-shirt	red
T-shirt	blue
polo	red
polo	yellow
sweatshirt	blue
sweatshirt	black

item	price
T-shirt	12.00
polo	12.00
sweatshirt	25.00

price	tax
12.00	0.60
25.00	1.25



Workshop

Name	Assignment 1	Assignment 2
Jeff Smith	Article Summary	Poetry Analysis
Nancy Jones	Article Summary	Reaction Paper
Jane Scott	Article Summary	Poetry Analysis



Workshop

Assignment ID	Description
1	Article Summary
2	Poetry Analysis
3	Reaction Paper

Student ID	First Name	Last Name
1	Jeff	Smith
2	Nancy	Jones
3	Jane	Scott

Assignment ID	Student ID
1	1
1	2
1	3
2	1
2	3
3	2



Relationships ?

