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Additional Database Quality Ideas

Relational Databases Basics



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Ideas to consider

Data formats

Possible data values ranges

Proper data processing rules

Subject matter limitations

Technology limitations

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Disclaimer

Yes, yes, you know all the formats,
values, rules, limitations and God
knows what else. Still...

False believe about time

There are always 24 hours in a day

There are always 60 seconds in a minute

Time has neither beginning, nor end

A millisecond precision is always enough

Unixtime starts on Jan 1 1970, 00:00:00

24:12:34 is a wrong time

False believe about names

Every person has constant N names

A person name (unlike surname) never changes

The whole name is always in some constant encoding

You may safely omit special characters in names

Two different full names – two different persons

Every person has a name

False believe about phone numbers

Phone type (i.e. landline, mobile) never changes

A person has only one personal number

Each country code represents exactly one country

A number prefix may not be a number itself

A number may consist of digits only

A number may not be “re-used”

False believe about addresses

Each building has an address

Each building may have one address only

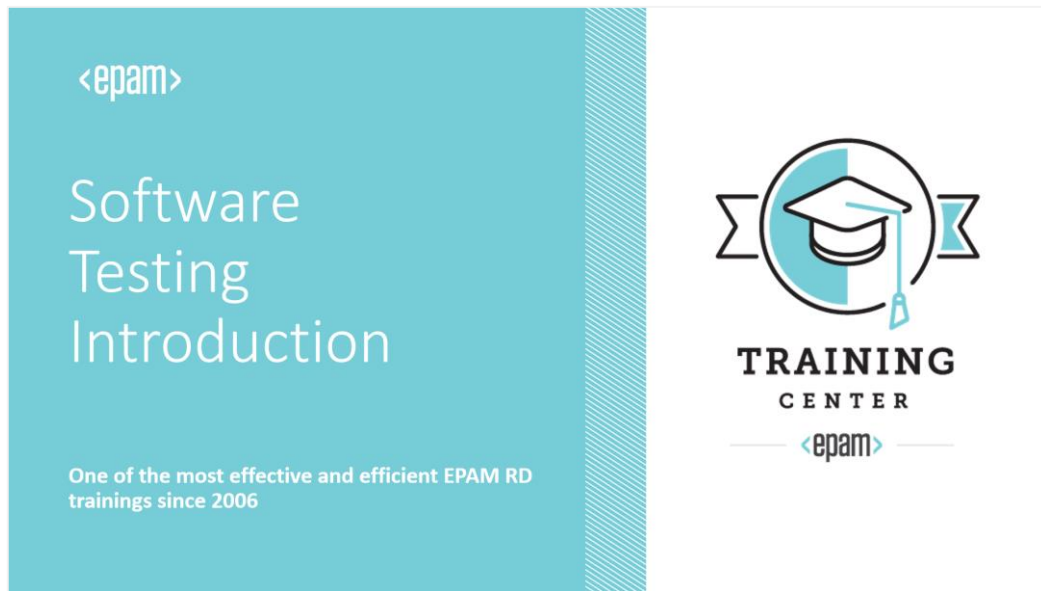
Each building may have one or two addresses only

You may safely omit leading zeroes in addresses

A city may never have two streets with the same names

There are streets and avenues only

Further education...



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