Solution for case assignment 1 (data modeling) Champagne

(Case adapted from:

https://www.champagne.fr/assets/files/econo

mie/bulletin expeditions 2018.pdf

https://stats.agriculture.gouv.fr/disar-saiku/?plugin=true&query=query/open/D 0021

14464

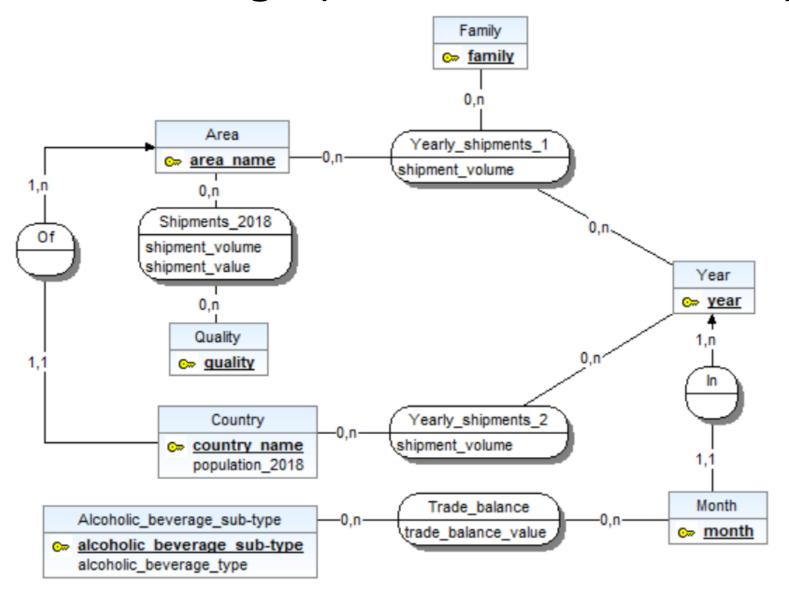
mie/bulletin expeditions 2018.pdf

https://stats.agriculture.gouv.fr/disar-saiku/?plugin=true&query=query/open/D 0021

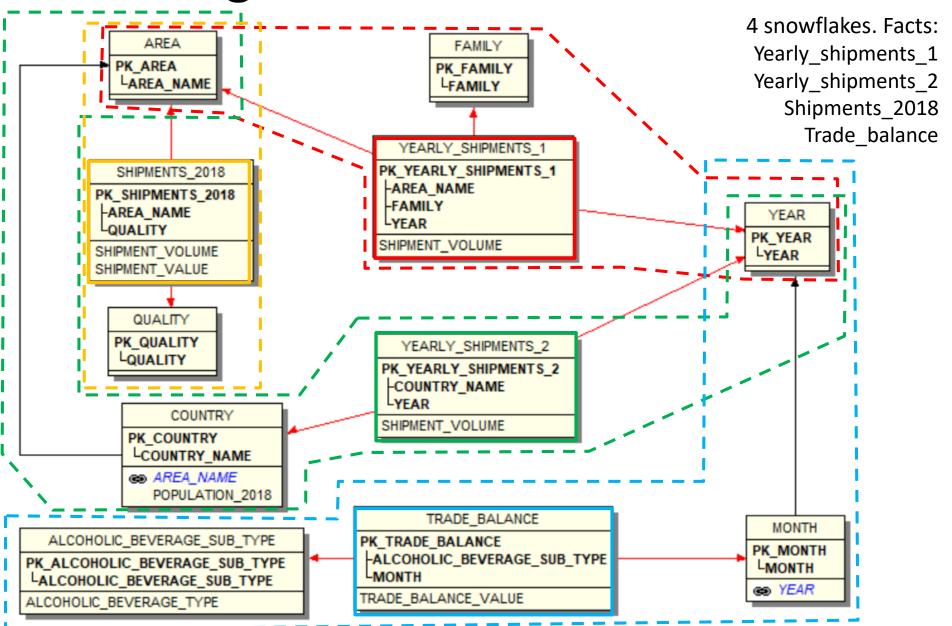
https://stats.agriculture.gouv.fr/disar-saiku/?plugin=true&query=query/open/D 0021

https://stats.agriculture.gouv.fr/disar-saiku/?plugin=true&query=query/open/D 0021)

Conceptual entity-relationship (ER) schema in Win'Design (inverted cardinalities)



Logical snowflake schema



Worksheets in the physical Excel schema

- Yearly_shipments_1
- Yearly_shipments_2
- Shipments_2018
- Trade_balance
- Country
- Alcoholic_beverage_sub-type

(The other tables are not represented in the physical Excel database because they only have one attribute, their primary key. Note that in particular, the attribute year in Month is a time attribute computed from the month, so only the attribute month remains in table Month.)