

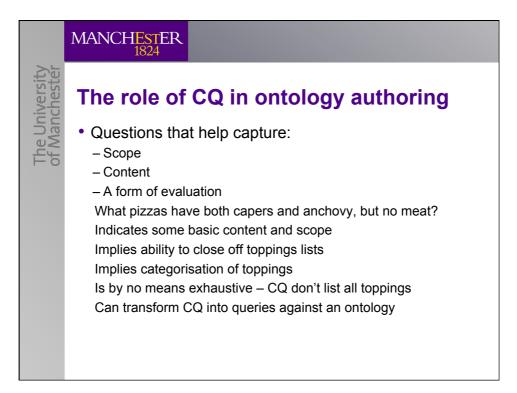
12/04/2016

MANCHESTER 1824

The University of Manchester

What are CQ?

- Michael Gr
 üninger and Mark Fox (1995)
- What must an ontology be "competent" to do (answer)?
 - The ontology should have the axioms sufficient to answer competence questions
 - What vegetarian pizzas are there that don't have olives?
 - Implies discriminations of different toppings, vegetable/fish/ meat toppings and closure of toppings



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an	How many pizzas are available?	Find all vegetarian pizzas	Can you have a pizza with any combination of toppings?
Se	Do pizzas come in different sizes?	How many pizzas in the menu contain meat?	Can I remove toppings from a pizza?
of	Are there any children's pizzas?	Find pizzas with a single meat ingredient	Find all the pizzas with less than 3 toppings
	Are different bases available?	Does this pizza contain halal meat?	If I have 3 ingredients, how many kinds of pizza I would make?
	What kind of bases are possible?	Find all the nut free pizzas	Find all pizzas which are sharing 3 or more ingredients
	Show me all pizza base options	Which pizzas do not have nuts?	Are we including folded pizzas (calzone) in our domain?
	Is it thin or thick bread?	How many pizzas have either ham or chicken topping?	Should we include the oven type in the pizza definition? (e.g. wood fired vs. electric oven)
	Is it "deep pan" or "Chicago" style? (deep pan sucks!)	Find all pizzas that have prawns but not anchovy	Explore relationships between common pizza choices to hypothesise about the origins of pizza toppings
	Is it stuffed crust and what is it stuffed with?	What is the most popular (used) topping?	How much it will cost me to order all pizzas in the menu?
	Which are gluten free bases?	What is the third least popular topping?	How much does Margherita Pizza weight?
	Which pizzas are spicy?	Which toppings are allowed for customisation purposes?	How many pizzas did I eat last week?
	Which sort of cheese do we have?	Reason backwards and suggest toppings that commonly go with each other (e.g. anchovies and capers)	I want to know whether a pizza is healthy
	What sauces are available?	Are toppings organic?	Can I have a menu without pizzas please?
	Find pizzas with peppers and olives	Show me the offers of the day	Which is the latest combination of toppings?

Aust be able to represent kin relationships – Parentage; Grandparents; Ancestors; Aunts, uncles and cousins to the second degree. Pust represent marriage Must represent in-law relationships – parents, siblings, etc Must represent birth, death and marriage years

