

Question B (Continue)

Any identified metonymically?

- John Howard
 - Can you identify the incumbent Australian Government by this above term ?
 - Yes, Howard Government, but why?
- Beijing
 - Can you identify which nation Beijing belongs to?
 - Yes, China, but why?
- West Wing
 - Can you identify where West Wing locates?
 - Yes, this is the US President office in White House, but why?
- WHY, WHY, WHY?
- The entities (Howard Government, China and White House) are identified by their quintessential parts. Such identification is so called metonymy that is the use of a single characteristic to identify a more complex entity. 7

Question B (Continue)

Any identified metonymically?

- Under the accommodation ontology
- A lease can be identified by one of its participants.
- For example, leases can be identified metonymically by lessee's names in addition to lease numbers – "Can you give me the lease Mary Smith signed at 3 April 2005?"

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Question B (Continue)

Are the independent classes used in unifying relations?

- There are hundreds, or even thousands Commonwealth Bank branches Australia-wide.
- One day, you opened up a bank account at its St Lucia branch. Where would you say you bank account is?
- You would say Commonwealth Bank rather than Commonwealth Bank St Lucia Branch next to UQ Union Complex opposed to Steele Building (Bldg No. 3) in UQ St. Lucia campus.
- Why?
- Commonwealth Bank, a complex object and identifier, consists of its branches. Thus, Commonwealth Bank is also a symbol of the unifying relation for its branches. 9

Question B (Continue)

Are the independent classes used in unifying relations?

Owner		
ID	Name	Contact No.
RWB-001	John Smith	0405948484
RWB-002	Mary Wilkinson	0404958679

Property		
Building_ID	Address	Owner_ID
RWB-001	18 Benson Street, Toowong	RW-002
RWB-002	56 Ironside Street, St. Lucia	RW-001
RWB-003	47 Oxford Street, Taringa	RW-002
RWB-004	18 Central Avenue, Indooroopilly	RW-001

Table Owner is an independent class and table Property depends on the Owner. As mentioned in slide number 5, owner's name John Smith is used as a unifying relation for his property portfolio. 10

Question C

Describe bulk types in the ontology, showing how they are bulk types. What containers are they in? Do the containers give pseudo-identity?

- Bulk Type
 - Bulk types lack either identity or unity. Containers can be given pseudo-identity to a bulk type.
 - Example, there are ten \$1 coins in a wallet.
 - Identity:
 - Who owns the coins? How do you know it?
 - » The owner of the wallet that contains the coins, owns the coins. The wallet acts as pseudo-identities.
 - Unity:
 - the 10 \$1 coin would not be unified without the wallet. The wallet acts as a container. 11

Question C (Continues)

Describe bulk types in the ontology, showing how they are bulk types. What containers are they in? Do the containers give pseudo-identity?

- Under the accommodation ontology
- For example, there are five identical chairs at room 78-631.
- The identity of the chairs is anonymous. The chairs are bulk type.
- The room 78-631 acts as a pseudo-identity for the chairs.
- However, the identity will change if the chairs are moved to other places. 12

Consultation Session

- Today 2-3 pm at 78-631

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