$Parent \equiv \exists hasChild.Thing$

$ParentOfaSon \equiv \exists hasChild.Male$

$ParentOfOnlySons \equiv \forall hasChild.Male$

$County \sqsubseteq \leqslant 1.hasCapital.\top$ functional!

$\top \sqsubseteq =1\ hasCapital.City$

$\top \sqsubseteq \forall hasCapital.City$ range

$(County \sqcup Province) \sqsupseteq \exists hasCapital.\top$ domain

Feb 3-10:13

Manchester Syntax:

Parent $\sqsubseteq$ someValuesFrom (hasChild, $\top$)

DL

Parent $\sqsubseteq \exists hasChild.\top$

OWL

```
:Parent a owl:Class ;
    rdfs:subClassOf [ a owl:Restriction ;
                      owl:onProperty :hasChild ;
                      owl:someValuesFrom owl:Thing ]
```

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SPARQL – DL ~~gehts~~ klappt es

?X a owl:Restriction;
owl:onProp ?P.

→ leer !

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$C_1 = A \cap B$

$C_2 \subseteq A$

$C_2 \subseteq B$

$C_2 \subseteq A \cap B$

C_2 kann leer sein!

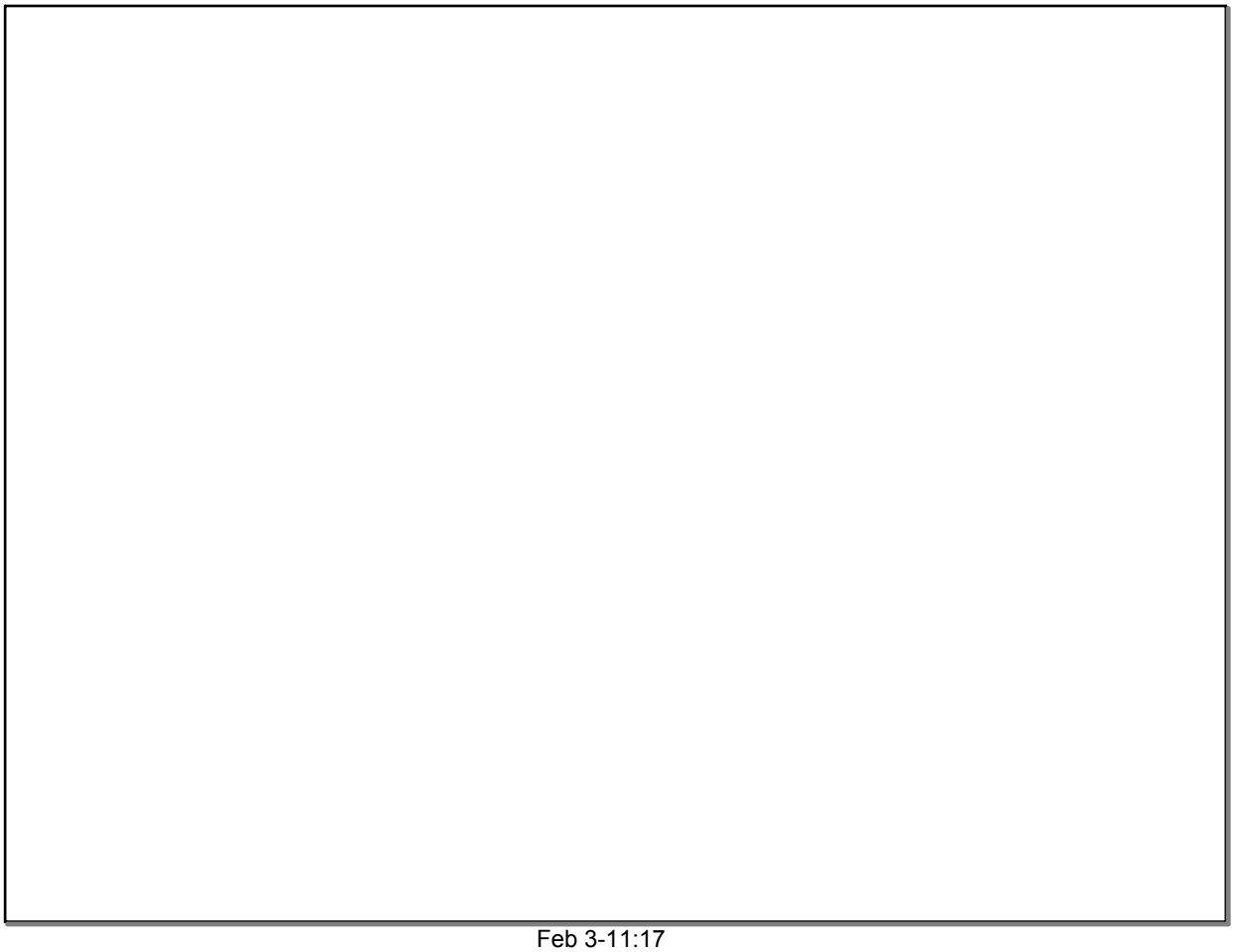
A: 1, 2

B 2, 3

C_1: 2

C_2: evtl. 2
muss,
3 nicht

Feb 3-11:04



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