

## A Supplemental Material

### A.1 Relation Hierarchy Flowchart

Figure 1 shows flowchart for relation hierarchy creation. This flow chart depicts detailed description of each step.

### A.2 Relation Hierarchy

In this subsection we provide 12 sub-hierarchies. Each sub hierarchy corresponds to one entity type (*person*, *organization* and *location*) from one of the hierarchy ( $\mathcal{H}_i$ ,  $\mathcal{H}_d$ ,  $\mathcal{H}_w$ , and the common hierarchy  $\mathcal{H}$ )

### A.3 Relation List

We have also shared list of all the 623 canonical relations in a csv file. Every relation is mapped with an unambiguous relation-id. Each relation is represented by the branch of the tree. For example, `rel.org.org-per.founder, R10200336`.

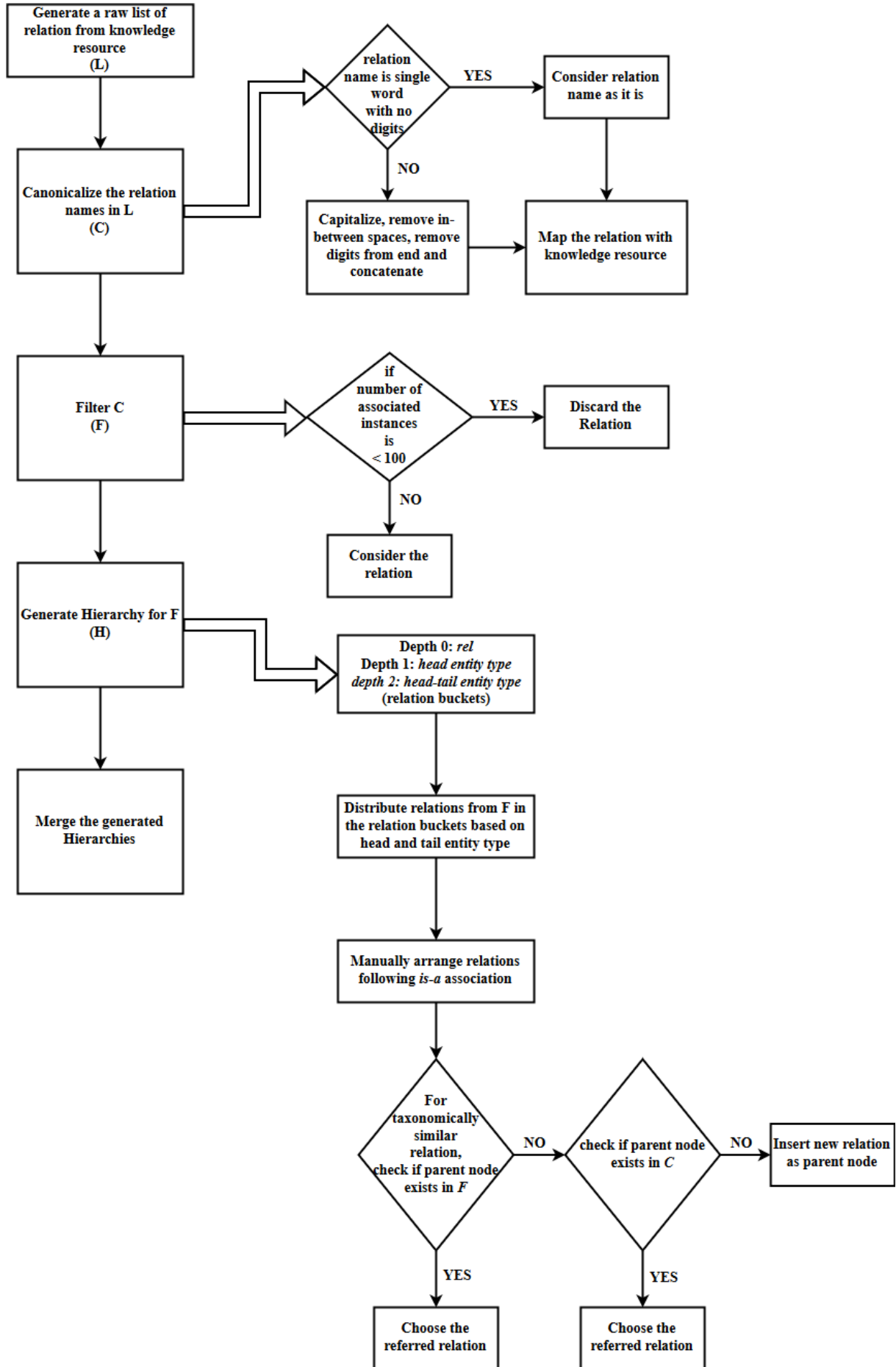


Figure 1: Detailed flow chart for Hierarchy Creation



Figure 2: Wikidata Person Hierarchy

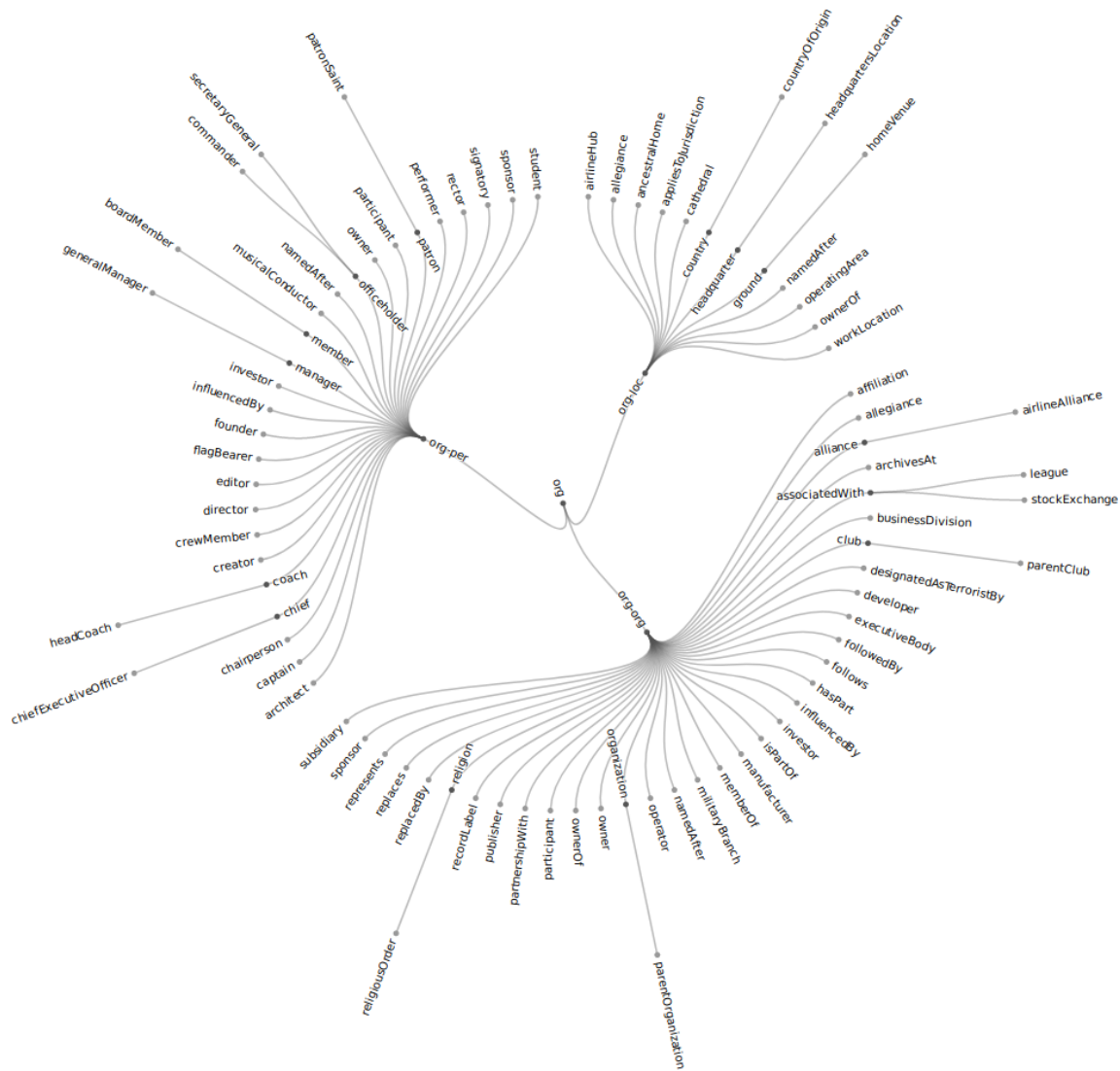
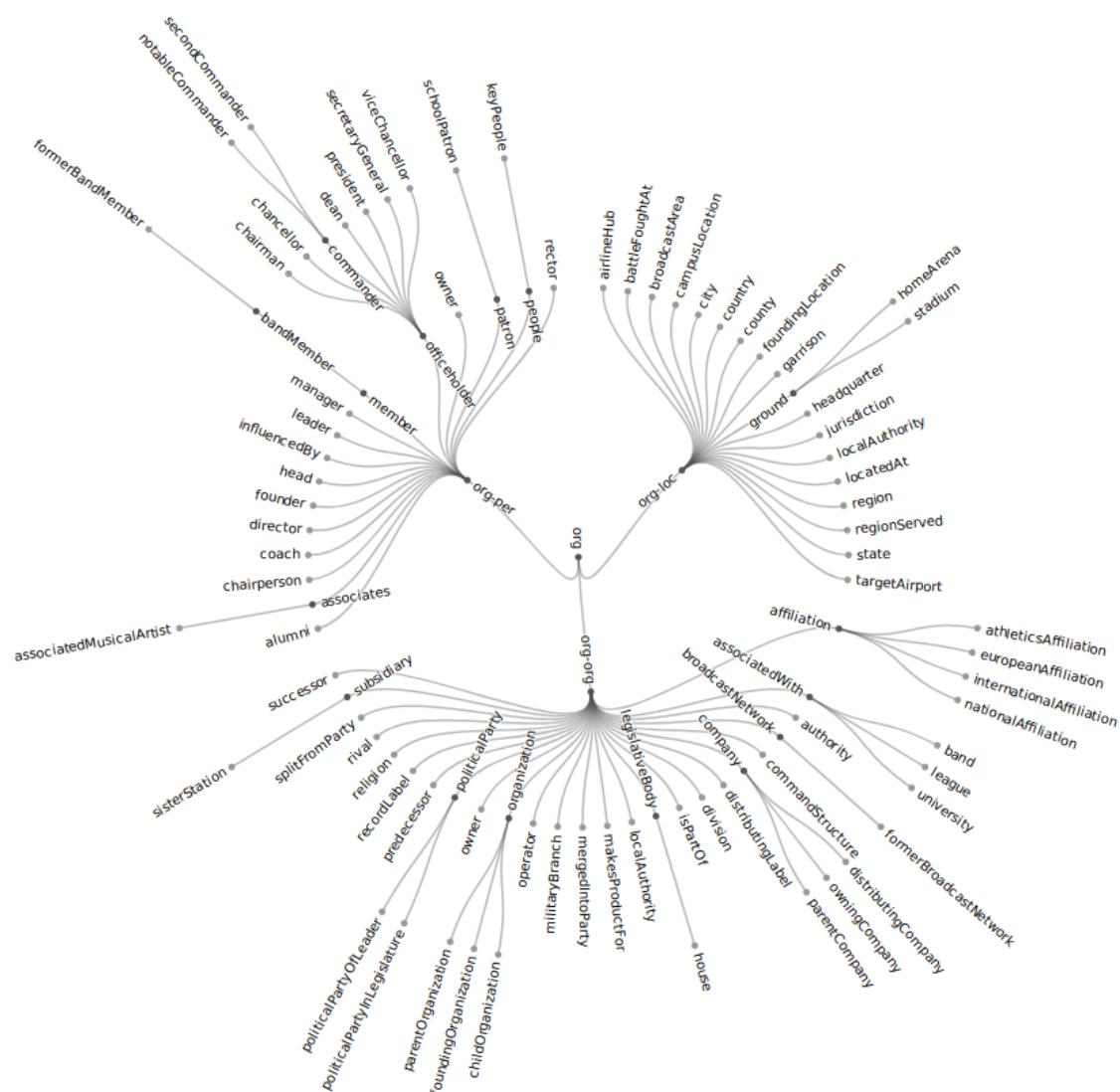


Figure 3: Wikidata Organization Hierarchy













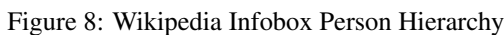
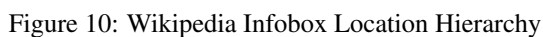




Figure 9: Wikipedia Infobox Organization Hierarchy





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