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# @nsURI county_MM=http://unican.es/istr/PyEmofUC/CountyCity/County
# @nsURI taxCensus_MM= http://unican.es/istr/PyEmofUC/CountyCity/TaxCensus

module CountyCity_To_TaxCensus;
create outTaxCensusModel : taxCensus_MM from inCountyModel : county_MM;

helper def : rootContainer() : county_MM!County = . . .;

helper def : currentDate() : String = . . .;

helper def : accumulatedSalary(theAdult: county_MM!Adult) : Real= . . .;

lazy rule createTax {
  from
    theAdult : county_MM!Adult
  to
    theTax : TaxCensus!Tax (
      amount <- (0.2 * accumulatedSalary(theAdult)) -
      (100.0 * len(theAdult.offspring)),
      date <- thisModule.currentDate()
    )
}

entrypoint rule County_To_TaxCensus () {
  to
    theCountyTaxCensus : taxCensus_MM!CountyTaxCensus(
      countyName <- thisModule.rootContainer().countyName,
      taxPayer <- thisModule.rootContainer().home ->
      collect(theHome | theHome.member ->
        select(theMember | theMember.isInstanceOf(County_MM!Adult))
      )
    )
}

rule Adult_To_TaxPayer {
  from
    theAdult : county_MM!Adult
  to
    theTaxPayer : taxCensus_MM!TaxPayer (
      payerName <- theAdult.name,
      address <- theAdult.home.address+ ' ' +
      thisModule.rootContainer().countyAddress,
      currentTax <- thisModule.createTax(theAdult),
      holder <- theAdult
    )
}

```