Input:

* All by all circe cohort
  + Demographic constraints match
  + Give a circe template and vignette
* Observation Period Table
  + Standard one
  + BYO-OP

Parameters

* Anchor: point where you enumerate a prevalent or incident event
  + Calendar date: traditional
  + Cohort entry date: it is a relative point in the patient time where we begin to observe them. Ex: observation\_period\_start\_date or observation\_period\_start\_date + 365
* Period of Interest: What time are we interested in surveilling the population
  + Year: traditional
  + Multi-year: 2008-2024. What types of multi years should be handled? Any, 5yr, 2 yr, 10yr?
* Minimum Op length: the minimum amount of time the person is required to be observed in the database
* Which of the eligible Observation Periods: the first or any?
  + Sub-options: Chronic or acute?
    - Chronic in this op
    - Chronic on all op
    - Acute in ops
* Lookback period - for prevalence
  + Any
  + Fixed time (like 365)
* Period type: EHR or claims (preferably avoid MC)
* Demographics:
  + Remove unknown gender
  + Demographic constraints: (be sure to match with all by all cohort)
    - Age at observation period start (cohort entry)
    - Gender
    - Race
    - Ethnicity
    - Location
  + Demographic strata
* Censor on Death
* Estimate multiplier
* buildOptions: Keep the tables? With a prefix
* Standardized results
  + which weights to use? -> acs, census, Japanese pop weights
  + for multi-year => weighting strategy
    - age at entry
    - age at midpoint
    - age at end
    - proportional age

Function:

* Step 1: Get the eligible observation periods
* Step 2: Left join with cases
* Step 3: Find prevalent cases
* Step 4 : Find incident cases
* Step 5: Find persons who died

Output:

List(

**resultsTable**

| databaseId | analysisId | cohortId | periodOfTime | …strata…. |numerator | denom | estimate | statType | multiplier {| confLow | confHigh |}

**metaInfo**

summary of the pims object => print(summarizes)

)