Read the data

```julia
julia> data = read_pumas(simdf,cvs=[:isPM, :wt])
Population
  Subjects: 10
  Covariates: isPM, wt
  Observables: dv
```

Use this data to estimate the parameters of our model.

```julia
julia> res = fit(model,data,param,Pumas.FOCEI())
FittedPumasModel

Successful minimization:                    true

Likelihood approximation:             Pumas.FOCEI
Objective function value:                 8084.54
Total number of observation records:         1210
Number of active observation records:        1210
Number of subjects:                            10


-----------------
        Estimate
-----------------
tvcl      4.8809
tvv      89.739
pmoncl  -0.73558
Ω₁,₁      0.10822
Ω₂,₂      0.051508
σ_prop   0.042149
-----------------
```

https://docs.pumas.ai/dev/basics/estimation/#Maximum-Likelihood-Estimation-1
https://docs.pumas.ai/dev/basics/estimation/#Bayesian-Estimation-1

```
julia> infer(res)
Calculating: variance-covariance matrix
. Done.
FittedPumasModelInference

Successful minimization:                          true

Likelihood approximation:                Pumas.FOCEI
Objective function value:                   8084.54
Total number of observation records:        1210
Number of active observation records:       1210
Number of subjects:                           10

--------------------------------------------------------------
         Estimate      RSE            95.0% C.I.
--------------------------------------------------------------
tvcl     4.8809       12.932   [ 3.6438    ;    6.1181   ]
tvv      89.739       7.3011   [76.898     ; 102.58      ]
pmoncl   -0.73558     -7.9587  [-0.85032   ;   -0.62084  ]
Ω₁,₁     0.10822      26.546   [ 0.051913  ;    0.16452  ]
Ω₂,₂     0.051508     41.275   [ 0.0098391 ;    0.093176 ]
σ_prop   0.042149     3.3957   [ 0.039344  ;    0.044954 ]
--------------------------------------------------------------
```

https://docs.pumas.ai/dev/analysis/diagnostics/#The-infer-Function-1