

```
insheet using "MSI.csv", comma clear  
  
insheet using "IHC.csv", comma clear  
  
insheet using "MSI_L.csv", comma clear  
  
  
  
  
gen long n1=tp+fn  
  
gen long n0=fp+tn  
  
gen long true1=tp  
  
gen long true0=tn  
  
gen long studyid= _n  
  
  
  
  
reshape long n true, i(studyid) j(sens)  
  
  
  
  
sort study sens  
  
gen byte spec=1-sens  
  
  
  
  
melogit true sens spec , nocons|| studyid: sens spec, ///  
nocons cov(ind) binomial(n)  
  
  
  
  
program define renamematrix, eclass  
  
matrix mb = e(b)  
  
matrix mv = e(V)  
  
matrix colnames mb = logitse:_cons logitsp:_cons vlogitse:_cons  
vlogitsp:_cons covlogits:_cons  
  
matrix colnames mv = logitse:_cons logitsp:_cons vlogitse:_cons
```

```
vlogitsp:_cons covlogits:_cons

matrix    rownames    mv    =    logitse:_cons    logitsp:_cons    vlogitse:_cons
vlogitsp:_cons covlogits:_cons

ereturn post mb mv

end

renamematrix

_diparm logitse, label(Sensitivity) invlogit
_diparm logitsp, label(Specificity) invlogit
```