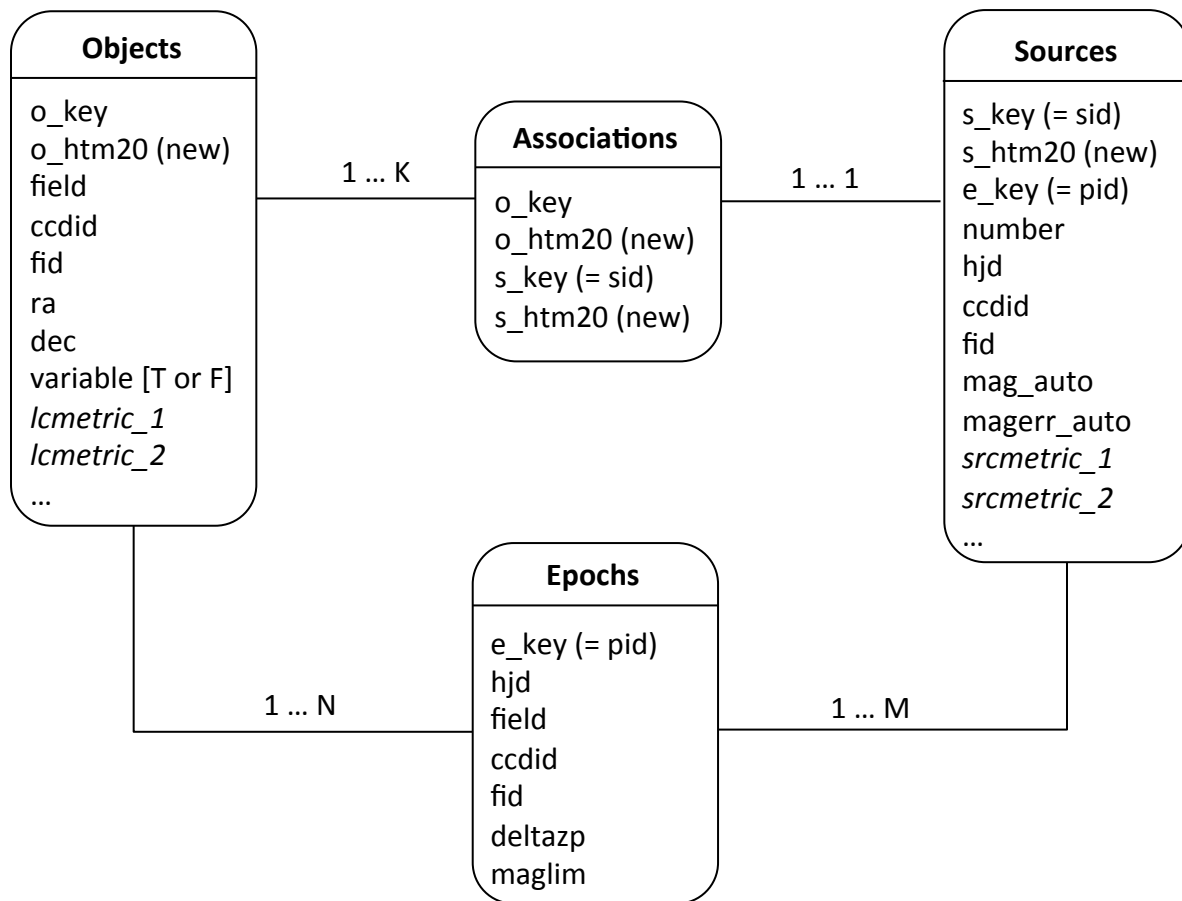


## PTF Lightcurve Database Schema, v1.3, 2/26/2016



### Notes and TBRs:

1. o\_key = unique object (or lightcurve) identifier; s\_key = unique epochal source identifier (= "sid" from the nightly \*.ds files); e\_key = unique identifier for epochal image (= "pid" from nightly \*.ds files).
2. K = number of sources (epochal detections) associated with o\_key.
3. N = number of epochs covered by o\_key, regardless if epochal sources were detected.
4. M = number of detected sources for a given field, chip, fid, and hjd (or per e\_key).
5. Except for s\_htm20, all columns shown in the *Sources* table are already in the nightly \*.ds files. All other metrics from these files are denoted by *srcmetric\_i*.
6. Database-load files and data-dictionaries for the *Objects*, *Associations*, and *Epochs* tables will be constructed by the PTF operations team. This includes the computation of o\_htm20 and s\_htm20. The s\_htm20 values in particular may not be consistent with those inserted by IRSA into the *Sources* table. IRSA will check these and do some magic to ensure consistency.
7. *variable = F* in the *Objects* table refers to "transients", i.e., objects with no associated reference image detection (hence position). In this case, their ra, dec will be an average across all epochal detections.
8. The purpose of the *Epochs* table is twofold: (i) provide the zeropoint correction (*deltazp*) per epoch to be applied in the sense: *mag\_auto + deltazp*; (ii) provide an upper limit (*maglim*) per epoch to use for e\_key records that cover o\_key but have no corresponding s\_key measurements.