

Joins with Reference Catalogs

[Forced]Source->Object->RefObjMatch->RefObject join patterns. Example query:

```
SELECT
  o.uFlux_PS, o.uFlux_PS_Sigma, o.gFlux_PS, o.gFlux_PS_Sigma,
  o.rFlux_PS, o.rFlux_PS_Sigma, o.iFlux_PS, o.iFlux_PS_Sigma,
  o.zFlux_PS, o.zFlux_PS_Sigma, o.yFlux_PS, o.yFlux_PS_Sigma,
  ce.visit, ce.raft, ce.ccd,
  f.filterName,
  scisql_dnToAbMag(fs.flux, ce.fluxMag0) AS forcedPsfMag,
  scisql_dnToAbMagSigma(fs.flux, fs.fluxSigma, ce.fluxMag0, ce.fluxMag0Sigma) AS forcedPsfMagErr,
  so.uMag, so.gMag, so.rMag, so.iMag, so.zMag, so.yMag

FROM
  Object AS o
  JOIN ForcedSource AS fs ON (fs.objectId = o.objectId)
  JOIN Science_Ccd_Exposure AS ce ON (ce.scienceCcdExposureId = s.scienceCcdExposureId)
  JOIN RefObjMatch AS om ON (om.objectId = o.objectId)
  JOIN SimRefObject AS so ON (om.refObjectId = so.refObjectId)
  JOIN Filter AS f ON (f.filterId = ce.filterId)

WHERE
  fs.fluxSigma > 0
  AND om.nObjMatches = 1
  AND NOT (fs.flagNegative | fs.flagPixEdge | fs.flagPixSaturAny |
           fs.flagPixSaturCen | fs.flagBadApFlux | fs.flagBadPsfFlux);
```