First ADQL request:

SELECT \*

FROM gaiadr3.gaia\_source AS g

JOIN gaiadr3.tmass\_psc\_xsc\_best\_neighbour AS xmatch ON g.source\_id = xmatch.source\_id

WHERE CONTAINS(POINT('ICRS', g.ra, g.dec), CIRCLE('ICRS', 132.825, 11.8, 1)) = 1

AND g.phot\_g\_mean\_mag < 14

Second ADQL request:

SELECT \*

FROM gaiadr3.gaia\_source AS g

JOIN gaiadr3.tmass\_psc\_xsc\_best\_neighbour AS xmatch

ON g.source\_id = xmatch.source\_id

JOIN gaiadr3.tmass\_psc\_xsc\_join AS xjoin

ON xmatch.clean\_tmass\_psc\_xsc\_oid = xjoin.clean\_tmass\_psc\_xsc\_oid

JOIN gaiadr1.tmass\_original\_valid AS tmass

ON xjoin.original\_psc\_source\_id = tmass.designation

WHERE CONTAINS(POINT('ICRS', g.ra, g.dec), CIRCLE('ICRS', 132.825, 11.8, 1)) = 1

AND g.phot\_g\_mean\_mag < 14

AND tmass.ph\_qual != 'AAA'

Third ADQL request:

SELECT g.source\_id, g.ra, g.dec, g.phot\_g\_mean\_mag, g.phot\_bp\_mean\_mag,

g.phot\_rp\_mean\_mag, g.parallax, xmatch.original\_ext\_source\_id AS tmass\_id, tmass.j\_m,

tmass.h\_m, tmass.ks\_m, tmass.ph\_qual

FROM gaiadr3.gaia\_source AS g

JOIN gaiadr3.tmass\_psc\_xsc\_best\_neighbour AS xmatch

ON g.source\_id = xmatch.source\_id

JOIN gaiadr3.tmass\_psc\_xsc\_join AS xjoin

ON xmatch.clean\_tmass\_psc\_xsc\_oid = xjoin.clean\_tmass\_psc\_xsc\_oid

JOIN gaiadr1.tmass\_original\_valid AS tmass

ON xjoin.original\_psc\_source\_id = tmass.designation

WHERE 1=CONTAINS(POINT('ICRS', g.ra, g.dec), CIRCLE('ICRS', 132.825, 11.8, 1))

AND g.phot\_g\_mean\_mag < 14

AND tmass.ph\_qual = 'AAA'

AND NOT (g.parallax IS NULL OR g.parallax < 0)