

Find all objects similar to the colors of a quasar with redshift in a given range

```
SELECT  COUNT(*)                                AS totalCount,
        SUM(CASE WHEN (typeId=3) THEN 1 ELSE 0 END) AS galaxyCount,
        SUM(CASE WHEN (typeId=6) THEN 1 ELSE 0 END) AS starCount,
        SUM(CASE WHEN (typeId NOT IN (3,6)) THEN 1 ELSE 0 END) AS otherCount
FROM    Object
JOIN    _Object2Type USING(objectId)
WHERE   (uMag-gMag > 2.0 OR uMag > 22.3) -- apply the quasar color cut.
        AND iMag BETWEEN 0 AND 19
        AND gMag - rMag > 1.0
        AND ( (rMag-iMag < 0.08 + 0.42 * (gMag-rMag - 0.96)) OR (gMag-rMag > 2.26 ) )
        AND iMag-zMag < 0.25
```

Note, we will not have objects classified in DC3b beyond star/galaxy, so this query will not work.

Origin: SDSS (S-16)