

How to Find a Quasar?

Tutorial #4

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The goal of this tutorial was to ...

Part I

Code 1: SQL Query for the QSO Sample

```
1 SELECT oiii_5007_flux, h_alpha_flux, h_beta_flux, nii_6584_flux
2
3 FROM GalSpecLine AS g JOIN SpecObj AS s ON
4 g.specobjid = s.specobjid
5
6 WHERE
7 (s.class = 'QSO' or s.class = 'GALAXY')
8 AND 2.355 * g.sigma_balmer < 500
9 AND 2.355 * g.sigma_forbidden < 500
10 AND s.snmedian_g > 40
11 AND g.oiii_5007_flux > 5
12 AND (g.oiii_5007_flux / g.oiii_5007_flux_err) > 5
13 AND g.h_alpha_flux > 5
14 AND (g.h_alpha_flux / g.h_alpha_flux_err) > 5
15 AND g.h_beta_flux > 5
16 AND (g.h_beta_flux / g.h_beta_flux_err) > 5
17 AND g.nii_6584_flux > 5
18 AND (g.nii_6584_flux / g.nii_6584_flux_err) > 5
```

Part II

References