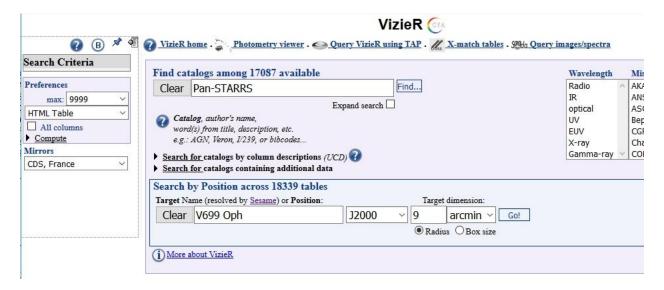
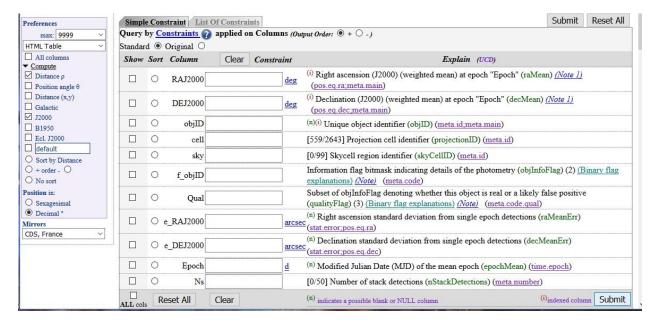
## Visual Clues on Using VizieR to Select Potential Comps From the Pan-STARRS Catalog



After Selection of the Go! Box, when the Data Comes up click on the "Modify Query" Box (left side) and you will be presented with the following screens

Click on "All Cols" 2X (follow the "Show" down to the first one) to uncheck all boxes then Select only what is shown below and note the one "sort" option selected! Also note that you must check the Position Box to be Decimal (left side)

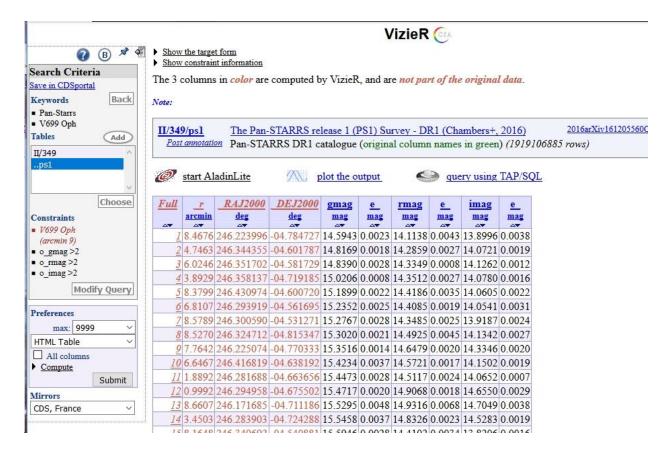


ALL cols	Reset All	Clear	(n) indicates a possible blank or NULL column (i)indexed column Submit						
	O No		[3/369] Number of single epoch detections in all filters (nDetections) (meta.number)						
	O Ng		[0/52] Number of single epoch detections in g filter (ng) (meta.number)						
	O N	-	[0/368] Number of single epoch detections in r filter (nr) (meta.number)						
	O N:		[0/88] Number of single epoch detections in i filter (ni) (meta.number)						
	O Na		[0/44] Number of single epoch detections in z filter (nz) (meta.number)						
	O Ny	•	[0/53] Number of single epoch detections in y filter (ny) (meta.number)						
	O gPSF:		(n) Maximum PSF weighted fraction of pixels totally unmasked from g filter detections (gQfPerfect) (instr.det.psf)						
	gmag	mag	(n)(i) [-33/33] Mean PSF AB magnitude from g filter (4866Å) detections (gMeanPSFMag) (phot.mag;em.opt.B)						
$\square$	O e_gmag	mag	(n) [0/0.5] Error in gmag (gMeanPSFMagErr) (stat.error;phot.mag;em.opt.B)						
	O gmagStd	<u>maş</u>	(n) Standard deviation of PSF AB magnitudes from g filter detections (gMeanPSFMagStd) (stat.stdev)						
	O o_gmag	>2	[0/49] Number of measurements included in mean PSF magnitude from g filter detections (gMeanPSFMagNpt) (meta.number)						
	O b_gmag	mag	(n) Minimum PSF AB magnitude from g filter detections (gMeanPSFMagMin) (stat.error;phot.mag;em.opt.B)						
	O B_gmag	mag	(n) Maximum PSF AB magnitude from g filter detections (gMeanPSFMagMax) (stat.error;phot.mag;em.opt.B)						

ALL cols	Reset All	Clear	(n) indicates a possible blank or NULL column	(i) <sub>indexed</sub> column	Submit
	O gKmag	mag	(n) Mean Kron (1980) AB magnitude from g filter detection (phot.mag;em.opt.B)	tions (gMeanKronMag)	
	O e_gKmag	mag	<sup>(n)</sup> Error in gKmag (gMeanKronMagErr) (stat.error;pho	t.mag)	
	O gFlags		Information flag bitmask for mean object from g filter description (Note) (meta.code)	etections (gFlags) (4) (Binar	y flag
	O rPSFf		(n) Maximum PSF weighted fraction of pixels totally un (rQfPerfect) (instr.det.psf)	masked from r filter detection	ns
☑	O rmag	mag	(n)(i) [-6/30] Mean PSF AB magnitude from r filter (621 (phot.mag;em.opt.R)	5Å) detections (rMeanPSFM	ag)
☑	O e_rmag	mag	(n) [0/0.5] Error in rmag (rMeanPSFMagErr) (stat.error;	phot.mag;em.opt.R)	
	O rmagStd	mag	(n) Standard deviation of PSF AB magnitudes from r filt (stat.stdev)	er detections (rMeanPSFMag	gStd)
	O o_rmag	>2	[0/179] Number of measurements included in mean PSF (rMeanPSFMagNpt) (meta.number)	magnitude from r filter dete	ctions
	O b_rmag	mag	(n) Minimum PSF AB magnitude from r filter detections (stat.error;phot.mag;em.opt.R)	s (rMeanPSFMagMin)	
	O B_rmag	mag	(n) Maximum PSF AB magnitude from r filter detection (stat.error;phot.mag;em.opt.R)	s (rMeanPSFMagMax)	
	O rKmag	mag	(n) Mean Kron (1980) AB magnitude from r filter detect (phot.mag;em.opt.R)	tions (rMeanKronMag)	
	O e_rKmag	mag	(n) Error in rKmag (rMeanKronMagErr) (stat.error;phot	mag)	
	O rFlags		Information flag bitmask for mean object from r filter deexplanations) (Note) (meta.code)	etections (rFlags) (4) (Binary	flag

		ls.		EXPERIMENTED (INCH.COM)						
ALL cols	Reset All	Clear		(n) indicates a possible blank or NULL column	(i) <sub>indexed</sub> column	Submi				
	O iPS	Ff		(n) Maximum PSF weighted fraction of pixels totally us (iQfPerfect) (instr.det.psf)	nmasked from i filter detection	ns				
☑	O ima	ag	mag	$^{(n)(i)}$ [-5/30] Mean PSF AB magnitude from i filter (75-(phot.mag;em.opt.I)	45Å) detections (iMeanPSFM	ag)				
$\square$	O e_ima	ng	mag	(n) [0/0.5] Error in imag (iMeanPSFMagErr) (stat.error;phot.mag;em.opt.I)						
	O imagS	td	mag	(n) Standard deviation of PSF AB magnitudes from i fil (stat.stdev)	lter detections (iMeanPSFMag	gStd)				
	O o_ima	ag[>2		[0/85] Number of measurements included in mean PSF (iMeanPSFMagNpt) (meta.number)	magnitude from i filter detec	tions				
	O b_ima	ng	mag	(n) Minimum PSF AB magnitude from i filter detection (stat.error;phot.mag;em.opt.I)	ns (iMeanPSFMagMin)					
	O B_ima	ng	mag	(n) Maximum PSF AB magnitude from i filter detections (iMeanPSFMagMax) (stat.error;phot.mag;em.opt.I)						
	O iKma	ng	mag	(n) Mean Kron (1980) AB magnitude from i filter detection (phot.mag;em.opt.I)	ctions (iMeanKronMag)					
	O e_iKma	ng	mag	$^{(n)}$ Error in zKmag (iMeanKronMagErr) (stat.error;pho	ot.mag)					
	O iFla	gs		Information flag bitmask for mean object from i filter of explanations) (Note) (meta.code)	detections (iFlags) (4) ( <u>Binary</u>	flag				
	O zPS	Ff		(n) Maximum PSF weighted fraction of pixels totally us (zQfPerfect) (instr.det.psf)	nmasked from z filter detectio	ns				
	O zma	ıg	mag	$^{(n)}(i)$ [-5/29] Mean PSF AB magnitude from z filter (86 (phot.mag.em.opt.I)	79Å) detections (zMeanPSFM	Mag)				
	O e_zma	ng	mag	(n) [0/0.5] Error in zmag (zMeanPSFMagErr) (stat.erro	r;phot.mag;em.opt.I)					

Now Select The "Submit" Box and you will be presented with 10 columns of data as shown below which can then be copied and inserted into the team Excel spread sheet designed to convert this Sloan Filter Data Into BVRI Data for potential selection of individual sequence members.



## **Copy Instructions:**

Right click on the first left hand column and sweep the mouse across to the last column then all the way down to the bottom of the data and then left click your mouse and select copy..

<u>Full</u>	<u>r</u>	RAJ2000	DEJ2000	gmag	<u>e</u>	rmag	<u>e</u> _	imag	<u>e</u> _
ΔΨ	arcmin △▼	"h:m:s"	<u>"d:m:s"</u>	mag	mag	mag	mag	mag	mag
1	8.4676	16 24 53.759	-04 47 05.02	14.5943	0.0023	14.1138	0.0043	13.8996	0.0038
2	4.7463	16 25 22.645	-04 36 06.43	14.8169	0.0018	14.2859	0.0027	14.0721	0.0019
3	6.0246	16 25 24.409	-04 34 54.23	14.8390	0.0028	14.3349	0.0008	14.1262	0.0012
4	3.8929	16 25 25.953	-04 43 09.07	15.0206	8000.0	14.3512	0.0027	14.0780	0.0016
5	8.3799	16 25 43.434	-04 36 02.59	15.1899	0.0022	14.4186	0.0035	14.0605	0.0022
б	6.8107	16 25 10.540	-04 33 42.10	15.2352	0.0025	14.4085	0.0019	14.0541	0.0031
		16 25 12.142							
8	8.5270	16 25 17.931	-04 48 55.25	15.3020	0.0021	14.4925	0.0045	14.1342	0.0027
9	7.7642	16 24 54.018	-04 46 13.20	15.3516	0.0014	14.6479	0.0020	14.3346	0.0020
10	6.6467	16 25 40.037	-04 38 17.49	15.4234	0.0037	14.5721	0.0017	14.1502	0.0019
11	1.8892	16 25 07.605	-04 39 49.16	15.4473	0.0028	14.5117	0.0024	14.0652	0.0007
-		16 25 10.790	The second secon	Name and Address of the Owner, where the Owner, which is					
13	8.6607	16 24 41.204	-04 42 40.27	15.5295	0.0048	14.9316	0.0068	14.7049	0.0038
14	3.4503	16 25 08.137	-04 43 27.44	15.5458	0.0037	14.8326	0.0023	14.5283	0.0019
7.5	0 1640	16 25 21 766	04 22 27 17	15 5046	0.0000	14 4100	0.0024	12 0206	0 0016

then simply click on the  $\mathbf{1}^{\text{st}}$  column of row 3 of the spread sheet and paste the data.

1	Full	<u>_r</u>	RAJ2000	DEJ2000	gmag	<u>e</u>	rmag	<u>e</u>	imag	
2	ruii	arcmin	deg	deg	mag	mag	mag	mag	mag	<u>e</u>
3	1	8.4676	24 53.759	4 47 05.02	14.5943	0.0023	14.1138	0.0043	13.8996	0.0038
4	2	4.7463	25 22.645	4 36 06.43	14.8169	0.0018	14.2859	0.0027	14.0721	0.0019
5	<u>3</u>	6.0246	25 24,409	4 34 54.23	14.839	0.0028	14.3349	0.0008	14.1262	0.0012
6	4	3.8929	25 25.953	4 43 09.07	15.0206	0.0008	14.3512	0.0027	14.078	0.0016
7	<u>5</u>	8.3799	25 43.434	4 36 02.59	15.1899	0.0022	14.4186	0.0035	14.0605	0.0022
8	<u>6</u>	6.8107	25 10.540	4 33 42.10	15.2352	0.0025	14.4085	0.0019	14.0541	0.0031
9	7	8.5789	25 12.142	4 31 52.58	15.2767	0.0028	14.3485	0.0025	13.9187	0.0024
10	8	8.527	25 17.931	4 48 55.25	15.302	0.0021	14.4925	0.0045	14.1342	0.0027
11	9	7.7642	24 54.018	4 46 13.20	15.3516	0.0014	14.6479	0.002	14.3346	0.002
12	<u>10</u>	6.6467	25 40.037	4 38 17.49	15.4234	0.0037	14.5721	0.0017	14.1502	0.0019
13	<u>11</u>	1.8892	25 07.605	4 39 49.16	15.4473	0.0028	14.5117	0.0024	14.0652	0.0007
14	<u>12</u>	0.9992	25 10.790	4 40 31.81	15.4717	0.002	14.9068	0.0018	14.655	0.0029
15	<u>13</u>	8.6607	24 41.204	4 42 40.27	15.5295	0.0048	14.9316	0.0068	14.7049	0.0038
16	<u>14</u>	3.4503	25 08.137	4 43 27.44	15.5458	0.0037	14.8326	0.0023	14.5283	0.0019