
Subject: WHERE function

Posted by m.goullant@gmail.com on Fri, 22 Sep 2006 17:41:44 GMT

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Hi there, I have a simple question for many of you :). Where is an example:

```
;point cloud (X,Y,Z)
```

```
x = data.x
```

```
y = data.y
```

```
z = data.z
```

```
;lets get only a point
```

```
i = 870
```

```
radio = 8
```

```
; getting only a part of the data
```

```
mySquare = WHERE(x LE x[i] + radio AND x GE x[i] - radio AND y LE y[i]  
+ radio AND y GE y[i] - radio)
```

```
Distance = sqrt((x[mySquare] - x[i])^2 + (y[mySquare] - y[i])^2)
```

```
neighbours = WHERE(Distance LE radio)
```

This is the index returned by the first WHERE Funcion:

```
694      695      696      697      698      699  
700      701      702      737      738      739  
740      741      742      743      744      745  
780  
      781      782      783      784      785  
786      787      788      823      824      825  
826      827      828      829      830      831  
866      867      868  
      869      870      871      872      873  
874      909      910      911      912      913  
914      915      916      917      952      953  
954      955      956  
      957      958      959      960      995  
996      997      998      999      1000      1001  
1002      1003      1038      1039      1040      1041  
1042      1043      1044  
      1045      1046
```

and this is the index returned by the second WHERE function:

```
4      11      12      13      14      15  
19      20      21      22      23      24  
25      28      29      30      31      32  
33
```

	34	36	37	38	39
40	41	42	43	44	46
47	48	49	50	51	52
55	56	57			
	58	59	60	61	65
66	67	68	69	76	

What can I do to preserve the same index?

Thank you,
Marie
