

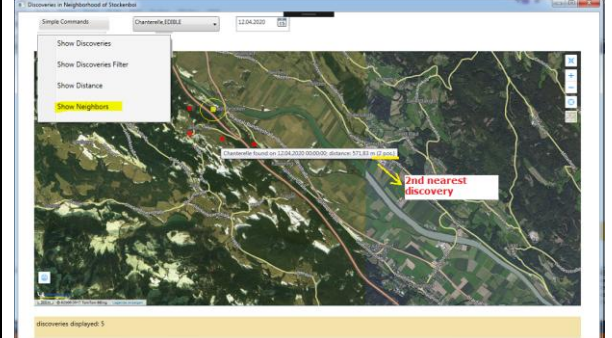
Theme

To save life of mushroom – hunters an appropriate application is needed.

Features

calculate nearest neighbors of hunter's position

User's View

	<ul style="list-style-type: none"> • with right mouse set hunter's position • position is displayed immediately • button "show neighbors" • displays next 5 discoveries in the neighbourhood and • their distance to hunter's position • in appropriate sequence, starting with the nearest
	<p>Feature (to reach top 100%-FlowerPot): user can change number of displayed discoveries with a slider – GUI-control (eg between 1 and 10); discoveries are shown immediately</p>

Developer's Hint

```

86  -- show nearest neighbors of geopoint id=1
87  SELECT TOP(3) A.id, B.id, A.geopoint.STDistance(B.geopoint) "distance in m"
88  FROM dbo.discoveries A , dbo.discoveries B
89  WHERE b.id = 1
90  ORDER BY A.geopoint.STDistance(B.geopoint);
91

```

0% ▾

T-SQL Results Message

id	id	distance in m
1	1	0
2	1	3349.830458124
3	1	8147.67390087551

- ➔ "B.geopoint" = position of hunter
- there should be a spatial index over geographic data (performance reasons), but query works also without it