**TY B.Tech. (CSE) - Il [ 2022-23 ]**

**5CS372 : Advanced Database System Lab.**

# **Assiqnment No. 12**

Spatial and Geographic Data

Geospatial is the natural domain for Graph Database

# Use Ne04i and Ne04i Spatial

Problem Statement : Finding Things Close to Other Things. Application in : location-based services on the web

Task .

I . Use Ne04j graph database installed in previous assignments.

1. Install/configure Ne04jSpatial (https://github.com/ne04icontrib/spatial) from GitHub. It is the Ne04j plug-in that facilitates geospatial operations on data stored in Ne04j
2. Write CQL (Cypher Query Language) script to add randomly 10,000 location points as follows. Assume any data.

|  |
| --- |
| TrainStation |
| longitude 12.56459 city 'Copenhagen' latitude 55.672874 |

|  |  |
| --- | --- |
|  | VEL |

## ROUTE



|  |
| --- |
| Office |
| longitude 12.994341 city 'Malmo' latitude 55.611784 |

1. Use the point() , distance() function of Ne04j to answer the queries "which things close/nearest to which other things".
2. Demonstrate the result by firing different cypher queries (write CQL statement).