**Assignment – 12**

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Class : TY CSE

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**Steps to follow :**1) Install neo4j desktop on the system from the below link :

<https://neo4j.com/download/>

Follow the steps for installation and make sure to create a new local DBMS and connect to it and also place the extracted .csv files into import folder of the created project so that the neo4j browser accesses it easily.

2) Neo4j queries to run for creating random values

CREATE (t1:TrainStation {city: 'Copenhagen', latitude: 55.672874, longitude: 12.56459})

CREATE (o1:Office {city: 'Malmo', latitude: 55.611784, longitude: 12.994341})

CREATE (t1)-[:TRAVEL\_ROUTE]->(o1)

Inserting 10000 rows

UNWIND range(1, 10000) AS id

CREATE (:Location {

id: id,

city: 'City' + id,

latitude: 50 + rand() \* 10,

longitude: 10 + rand() \* 10

})

MATCH (a:TrainStation), (b:Location)

WITH a, b,

point({latitude: a.latitude, longitude: a.longitude}) AS pa,

point({latitude: b.latitude, longitude: b.longitude}) AS pb

WHERE point.distance(pa, pb) < 100000

MERGE (a)-[:NEARBY]->(b);

3)Fetch the data by querying

Output :









