Nearest Neighbor

**Table creation and insertion queries: -**

CREATE TABLE spatial\_data (id integer, name varchar(50), geom geometry);

INSERT INTO spatial\_data VALUES(1, 'SGM', ST\_GeomFromText('POINT(-118.2888 34.0216)'));

INSERT INTO spatial\_data VALUES(2, 'Leavey',ST\_GeomFromText('POINT(-118.2834 34.0218)'));

INSERT INTO spatial\_data VALUES(3, 'Tommy', ST\_GeomFromText('POINT(-118.2852 34.0203)'));

INSERT INTO spatial\_data VALUES(4, 'ScienceCenter', ST\_GeomFromText('POINT(-118.2873 34.0196)'));

INSERT INTO spatial\_data VALUES(5, 'Expo\_Figuer', ST\_GeomFromText('POINT(-118.2837 34.0187)'));

INSERT INTO spatial\_data VALUES(6, 'Expo\_Verm', ST\_GeomFromText('POINT(-118.2909 34.0228)'));

INSERT INTO spatial\_data VALUES(7, 'Aquatic', ST\_GeomFromText('POINT(-118.2877 34.0240)'));

INSERT INTO spatial\_data VALUES(8, 'Jeff\_Verm', ST\_GeomFromText('POINT(-118.2857 34.0246)'));

**Query to compute 3 Nearest Neighbors: -**

SELECT ST\_Distance(geom, 'POINT(-118.2866 34.0322)'::geometry) as Distance,name,ST\_AsText(geom)

FROM spatial\_data

ORDER BY geom <-> 'POINT(-118.2866 34.0322)'::geometry LIMIT 3;

**Output on GCP: -**

