**Lab05**

**Exercise 01:**

Identify airports that have fewer than 3 navigation aids within 100 km (100,000 meters).

1. Left join is used to combine airports with navaids based on spatial condition
2. Group the results by airport name and its geography
3. Filter the results to include only airports that have fewer than 3 nearby navigation aids

**Exercise 02:**

Finding the Top 5 Airports with the Most Nearby Navigation Aids within 50 km Radius.

1. Left join is used to match each airport with navigation aids that are within 50 km of the airport.
2. Group the airport to get its own count of nearby naviaids
3. The ORDER BY clause sorts the results in descending order based on the number of nearby navigation aids

**Exercise 03**

Find 10 Airport with the Fewest Nearby Navigation Aids within 50 km

**Exercise 04**

Find the 3 closest airports from Worcester (-75.8008, 42.2610), ensuring that they are at least 90 km away

**Exercise 05**

Finding the 5 Closest Navigation Aids to the Farthest Navigation Aid of Boston Airport

1. Find the navigation aid that is farthest from "Bedds\_NDB\_US" (i.e., the most distant navigation aid).
2. Using that farthest navigation aid, find the 5 closest navigation aids to it.
3. Return the following details for each navigation aid:
4. Identifier (ident)
5. Name (name)
6. Distance from the farthest navigation aid (dist, in kilometers)
7. Sort the results in ascending order by distance (dist), showing the closest first.