

# Hexaware Coding Challenge Plan Day - 15

## Problem - 1 Aggregation

**HackerRank**

Prepare > SQL > Aggregation > Weather Observation Station 14

Exit Full Screen View

Problem

Query the greatest value of the Northern Latitudes (LAT\_N) from **STATION** that is less than 137.2345. Truncate your answer to 4 decimal places.

Input Format

The **STATION** table is described as follows:

STATION	
Field	Type
ID	NUMBER
CITY	VARCHAR2(21)
STATE	VARCHAR2(2)
LAT_N	NUMBER
LONG_W	NUMBER

where LAT\_N is the northern latitude and LONG\_W is the western longitude.

Submissions

Leaderboard

You have earned 10.00 points!

You are now 55 points away from the gold level for your sql badge.

73%

595/650

**Congratulations**

You solved this challenge. Would you like to challenge your friends? [f](#) [t](#) [in](#)

Next Challenge

Test case 0

Compiler Message

Success

Input (stdin)

Download

1 INPUT

Expected Output

Download

1 137.6193

## Problem - 2 Aggregation

**HackerRank**

Prepare > SQL > Aggregation > Weather Observation Station 15

Exit Full Screen View

Problem

Query the Western Longitude (LONG\_W) for the largest Northern Latitude (LAT\_N) in **STATION** that is less than 137.2345. Round your answer to 4 decimal places.

Input Format

The **STATION** table is described as follows:

STATION	
Field	Type
ID	NUMBER
CITY	VARCHAR2(21)
STATE	VARCHAR2(2)
LAT_N	NUMBER
LONG_W	NUMBER

where LAT\_N is the northern latitude and LONG\_W is the western longitude.

Submissions

Leaderboard

You have earned 15.00 points!

You are now 15 points away from the gold level for your sql badge.

93%

635/650

**Congratulations**

You solved this challenge. Would you like to challenge your friends? [f](#) [t](#) [in](#)

Next Challenge

Test case 0

Compiler Message

Success

Input (stdin)

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1 INPUT

Expected Output

Download

1 117.2465

## Problem - 3 Aggregation

Problem

Submissions

Leaderboard

Discussions

**HackerRank**

Prepare > SQL > Aggregation > Weather Observation Station 16

Exit Full Screen View

Query the smallest Northern Latitude (LAT\_N) from **STATION** that is greater than 38.7780. Round your answer to 4 decimal places.

**Input Format**

The **STATION** table is described as follows:

STATION	
Field	Type
ID	NUMBER
CITY	VARCHAR2(21)
STATE	VARCHAR2(2)
LAT_N	NUMBER
LONG_W	NUMBER

where LAT\_N is the northern latitude and LONG\_W is the western longitude.

You have earned 10.00 points!

You are now 45 points away from the gold level for your sql badge.

78%

605/650

**Congratulations**

You solved this challenge. Would you like to challenge your friends?

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Next Challenge

Test case 0

Compiler Message

Success

Input (stdin)

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1 INPUT

Expected Output

Download

1 38.8526

## Problem - 4 Aggregation

Problem

Submissions

Leaderboard

Discussions

**HackerRank**

Prepare > SQL > Aggregation > Weather Observation Station 17

Exit Full Screen View

Query the Western Longitude (LONG\_W) where the smallest Northern Latitude (LAT\_N) in **STATION** is greater than 38.7780. Round your answer to 4 decimal places.

**Input Format**

The **STATION** table is described as follows:

STATION	
Field	Type
ID	NUMBER
CITY	VARCHAR2(21)
STATE	VARCHAR2(2)
LAT_N	NUMBER
LONG_W	NUMBER

where LAT\_N is the northern latitude and LONG\_W is the western longitude.

You have earned 15.00 points!

You are now 30 points away from the gold level for your sql badge.

85%

620/650

**Congratulations**

You solved this challenge. Would you like to challenge your friends?

[f](#)[t](#)[in](#)

Next Challenge

Test case 0

Compiler Message

Success

Input (stdin)

Download

1 INPUT

Expected Output

Download

1 70.1378

## Problem - 5 Aggregation

Problem

Submissions

Leaderboard

Discussions

Consider  $P_1(a, b)$  and  $P_2(c, d)$  to be two points on a 2D plane.

- $a$  happens to equal the minimum value in Northern Latitude (LAT\_N in **STATION**).
- $b$  happens to equal the minimum value in Western Longitude (LONG\_W in **STATION**).
- $c$  happens to equal the maximum value in Northern Latitude (LAT\_N in **STATION**).
- $d$  happens to equal the maximum value in Western Longitude (LONG\_W in **STATION**).

Query the **Manhattan Distance** between points  $P_1$  and  $P_2$  and round it to a scale of 4 decimal places.

**Input Format**

The **STATION** table is described as follows:

STATION	
Field	Type
ID	NUMBER
CITY	VARCHAR2(21)
STATE	VARCHAR2(2)

You have earned 25.00 points!  
40/58 challenges solved.

69%

Congratulations

You solved this challenge. Would you like to challenge your friends? [f](#) [t](#) [in](#)

Next Challenge

Test case 0

Compiler Message

Success

Input (stdin) Download

1 INPUT

Expected Output Download

1 259.6859

## Problem - 6 Aggregation

Problem

Submissions

Leaderboard

Discussions

Consider  $P_1(a, c)$  and  $P_2(b, d)$  to be two points on a 2D plane where  $(a, b)$  are the respective minimum and maximum values of Northern Latitude (LAT\_N) and  $(c, d)$  are the respective minimum and maximum values of Western Longitude (LONG\_W) in **STATION**.

Query the **Eudclidean Distance** between points  $P_1$  and  $P_2$  and format your answer to display 4 decimal digits.

**Input Format**

The **STATION** table is described as follows:

STATION	
Field	Type
ID	NUMBER
CITY	VARCHAR2(21)
STATE	VARCHAR2(2)
LAT_N	NUMBER
LONG_W	NUMBER

You have earned 30.00 points!  
41/58 challenges solved.

71%

Congratulations

You solved this challenge. Would you like to challenge your friends? [f](#) [t](#) [in](#)

Next Challenge

Test case 0

Compiler Message

Success

Input (stdin) Download

1 INPUT

Expected Output Download

1 184.1616