

Weather observation station

MYSQL

Problem statement

A **median** is defined as a number separating the higher half of a data set from the lower half. Query the median of the Northern Latitudes (LAT_N) from **STATION** and 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.

Code

```
SET @r = 0;
```

```
SELECT ROUND(AVG(Lat_N), 4)
```

```
FROM (SELECT (@r := @r + 1) AS r, Lat_N FROM Station ORDER BY Lat_N) Temp
```

```
WHERE
```

```
  r = (SELECT CEIL(COUNT(*) / 2) FROM Station) OR
```

```
  r = (SELECT FLOOR((COUNT(*) / 2) + 1) FROM Station)
```