Queries: Weather Table

Query the following two values from the **STATION** table:

1. The sum of all values in *LAT_N* rounded to a scale of decimal places.

2. The sum of all values in *LONG_W* rounded to a scale of 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.

```
1. select round(sum(LAT_N),2) as lat, round(sum(LONG_W),2) as lon
   from station
```

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1. Query a list of **CITY** names from **STATION** for cities that have an even **ID** number. Print the results in any order, but exclude duplicates from the answer.

```
select distinct(city)
from station
where mod(id,2)=0
```

Find the difference between the total number of **CITY** entries in the table and the number of distinct **CITY** entries in the table.

```
select count(city) - count(distinct(city))
from station
```

Query the two cities in **STATION** with the shortest and longest *CITY* names, as well as their respective lengths (i.e.: number of characters in the name). If there is more than one smallest or largest city, choose the one that comes first when ordered alphabetically.

```
select city, length(city)
from station
order by length(city) asc,city asc limit 1;

select city, length(city)
from station
order by length(city) desc,city asc limit 1;
```

Query the list of *CITY* names starting with vowels (i.e., a, e, i, o, or u) from **STATION**. Your result *cannot* contain duplicates.

```
select distinct(city)
from station
where city like 'a%' or city like 'e%' or city like 'i%' or city like 'o%'
or city like 'u%'
```

Query the list of *CITY* names from **STATION** which have vowels (i.e., *a*, *e*, *i*, *o*, and *u*) as both their first *and* last characters. Your result cannot contain duplicates.

```
select city
from station
where city regexp '^[aeiou].*[aeiou]$'
```

Query the list of *CITY* names from **STATION** that *do not start* with vowels. Your result cannot contain duplicates.

```
select distinct(city)
from station
where city regexp '^[^aeiou]'
```

Query the list of *CITY* names from **STATION** that *do not end* with vowels. Your result cannot contain duplicates.

```
select distinct(city)
from station
where city regexp '[^aeiou]$'
```

Query the list of *CITY* names from **STATION** that either do not start with vowels or do not end with vowels. Your result cannot contain duplicates.

```
select distinct city
from station
where city regexp '^[^aeiou]' or
city regexp '[^aeiou]$';
--Alternatively.
(or where city regexp '^[^aeiou]|[^aeiou]$')
```