

WEATHER OBSERVATION STATION 4

TASK:

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

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.

For example, if there are three records in the table with **CITY** values 'New York', 'New York', 'Bengalaru', there are 2 different city names: 'New York' and 'Bengalaru'.

The query returns 1, because **total number of records – number of unique city names = 3 – 2 = 1**.

SOLUTION:

```
SELECT COUNT(CITY) - COUNT(DISTINCT CITY) FROM STATION;
```

SUBMISSION:

Congratulations

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✔ Test case 0

Compiler Message

Success

Input (stdin)

1 INPUT

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Expected Output

1 13

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CONCEPT USED:

COUNT(*) counts the number of rows

In MySQL, 'DISTINCT' is used to eliminate duplicate rows from the result set. It helps in retrieving unique combinations of column values from the selected data. Note that 'DISTINCT' applies to the entire row for the selected columns, not individual columns.

SOURCES:

1. <https://www.datacamp.com/doc/mysql/mysql-distinct-on>
2. <https://dev.mysql.com/doc/refman/9.3/en/counting-rows.html>
3. https://dev.mysql.com/doc/refman/9.3/en/arithmetic-functions.html#operator_minus