

July 10, 2017 | 66K views

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Given a Weather table, write a SQL query to find all dates' Ids with higher temperature compared to its previous (yesterday's) dates.

```
| Id(INT) | RecordDate(DATE) | Temperature(INT) |

    1 |
    2015-01-01 |
    10 |

    2 |
    2015-01-02 |
    25 |

    3 |
    2015-01-03 |
    20 |

    4 |
    2015-01-04 |
    30 |
```

For example, return the following Ids for the above Weather table:

```
+---+
Id
2
4
```

Solution

```
Approach: Using JOIN and DATEDIFF() clause [Accepted]
```

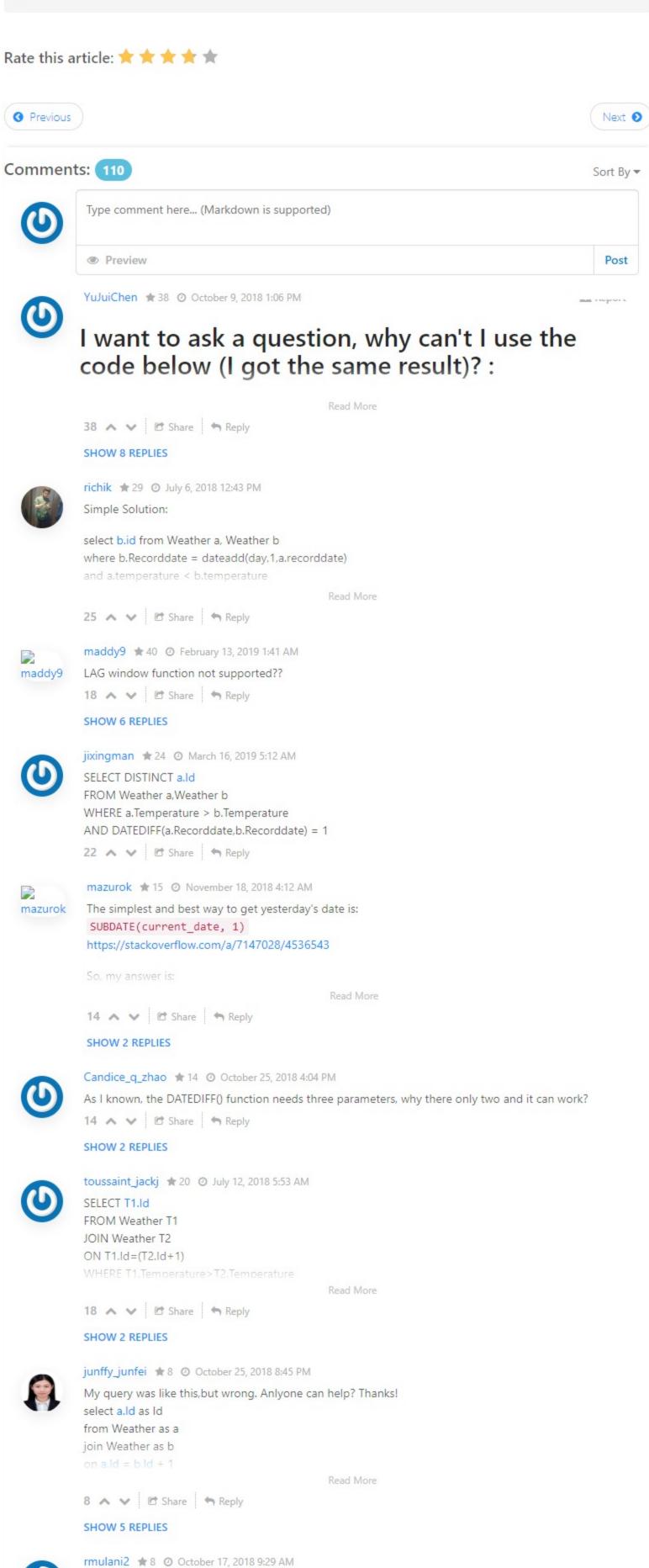
Algorithm

MySQL uses DATEDIFF to compare two date type values.

So, we can get the result by joining this table **weather** with itself and use this **DATEDIFF()** function.

MySQL

```
weather.id AS 'Id'
FROM
    weather
        JOIN
    weather w ON DATEDIFF(weather.date, w.date) = 1
        AND weather. Temperature > w. Temperature
```



Simple query using a WHERE clause. No subquery or join required:

W1.RecordDate) = 1 and W1.Temperature < W2.Temperature;

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This solution is accepted

select a.id from weather a

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(1 2 3 4 5 6 ... 10 11)

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Oracle:

select W2.Id from Weather as W1, Weather as W2 where DATEDIFF(W2.RecordDate,

where a.temperature > (select b.temperature from weather b where b.recorddate=a.recorddate-1)