

Write a query to merge products per  
customers for each day Using  
Str\_Aggr

## Given Table

	customer_id	dates	product_id
1	1	2024-02-18	101
2	1	2024-02-18	102
3	1	2024-02-19	101
4	1	2024-02-19	103
5	2	2024-02-18	104
6	2	2024-02-18	105
7	2	2024-02-19	101
8	2	2024-02-19	106

# SQL Statement

```
select dates,CAST( product_id as nvarchar) as product_id
from orders|
--where customer_id=1 and dates='2024-02-18'
union
select dates,STRING_AGG(product_id,',') as product_ids
from orders
--where customer_id=1 and dates='2024-02-18'
group by dates,customer_id
order by dates
```

# Output

	dates	product_id
1	2024-02-18	101
2	2024-02-18	101,102
3	2024-02-18	102
4	2024-02-18	104
5	2024-02-18	104,105
6	2024-02-18	105
7	2024-02-19	101
8	2024-02-19	101,103
9	2024-02-19	101,106
10	2024-02-19	103
11	2024-02-19	106

Write a query to check if Student scored more than previous test Using Lead( ) Function for evaluating performance

## Given Table

Results		Messages
	test_id	marks
1	100	55
2	101	55
3	102	60
4	103	58
5	104	40
6	105	50

# SQL Statement

```
select test_id, marks  
from (select *, lag(marks,1,0) over(order by test_id) as prev_marks  
      from student_tests) result  
where result.marks>result.prev_marks
```

|

# Output

	test_id	marks
1	100	55
2	102	60
3	105	50



Write a Query to filter date column to show only those days of week where day\_indicator is 1

## Given Table

	Product_ID	Day_Indicator	Dates
1	AP755	1010101	2024-03-04
2	AP755	1010101	2024-03-05
3	AP755	1010101	2024-03-06
4	AP755	1010101	2024-03-07
5	AP755	1010101	2024-03-08
6	AP755	1010101	2024-03-09
7	AP755	1010101	2024-03-10
8	XQ802	1000110	2024-03-04
9	XQ802	1000110	2024-03-05
10	XQ802	1000110	2024-03-06
11	XQ802	1000110	2024-03-07
12	XQ802	1000110	2024-03-08
13	XQ802	1000110	2024-03-09
14	XQ802	1000110	2024-03-10

# SQL Statement

```
select *, ((datepart(dw, dates)+5)%7)+1  
from Day_Indicator
```

```
select product_id, Day_Indicator, dates  
from(
```

```
select *, case when substring(day_indicator, (((datepart(dw, dates)+5)%7)+1), 1)='1'  
                then 'Correct' else 'incorrect' end as result  
        from Day_Indicator) a
```

```
where result='Correct'
```

# Output

	product_id	Day_Indicator	dates
1	AP755	1010101	2024-03-04
2	AP755	1010101	2024-03-06
3	AP755	1010101	2024-03-08
4	AP755	1010101	2024-03-10
5	XQ802	1000110	2024-03-04
6	XQ802	1000110	2024-03-08
7	XQ802	1000110	2024-03-09