1. select sum(poster_qty) as poster_qty,extract(month from occurred_at) as Month from sqlchallenge1.sales_reps rep

join sqlchallenge1.region r on rep.region_id=r.id

join sqlchallenge1.accounts a on a.sales_rep_id=rep.id

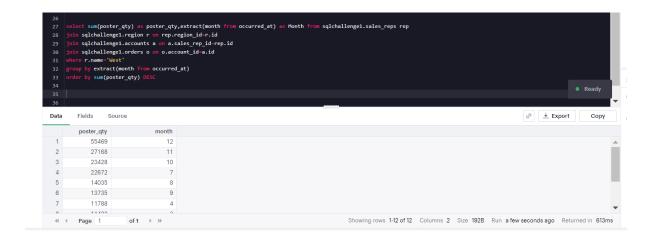join sqlchallenge1.orders o on o.account_id=a.id

where r.name='West'

group by extract(month from occurred_at)

order by sum(poster_qty) DESC

*

## For the West region, which month (list the full name) had the highest percent of poster orders by count during 2015?
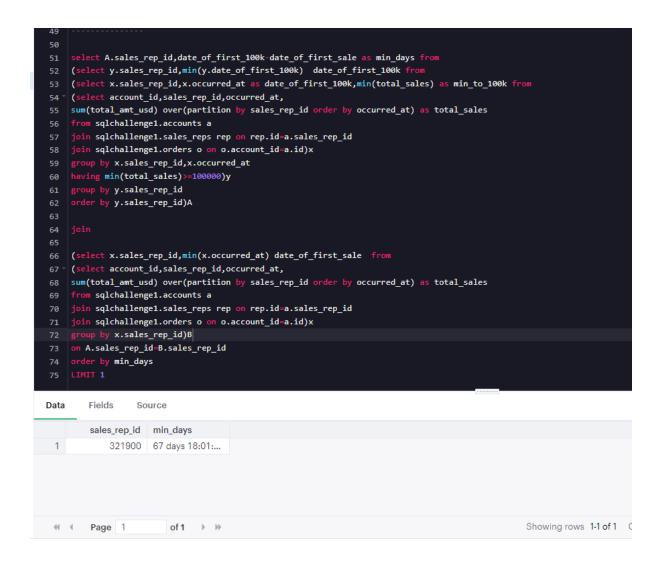
○ March

○ November

☑ December

○ July

| Previous question | Next question |

```
26
27  select sum(poster_qty) as poster_qty,extract(month from occurred_at) as Month from sqlchallenge1.sales_reps rep
28  join sqlchallenge1.region r on rep.region_id=r.id
29  join sqlchallenge1.accounts a on a.sales_rep_id=rep.id
30  join sqlchallenge1.orders o on o.account_id=a.id
31  where r.name='West'
32  group by extract(month from occurred_at)
33  order by sum(poster_qty) DESC
34                                                                                        ● Ready
35
36
```

Data    Fields    Source                                                          🔗  ⬇ Export    Copy

|   | poster_qty | month |
|---|---|---|
| 1 | 55469 | 12 |
| 2 | 27168 | 11 |
| 3 | 23428 | 10 |
| 4 | 22672 | 7 |
| 5 | 14035 | 8 |
| 6 | 13735 | 9 |
| 7 | 11788 | 4 |

≪  ◁    Page  1      of 1   ▷  ▷▷        Showing rows 1-12 of 12   Columns 2   Size 192B   Run a few seconds ago   Returned in 613ms

Starting from the time of their first order, which sales rep reached $100,000 in total sales the fastest in terms of time? List the id for this sales rep.

- ✔ 321700
- ○ 321680
- ○ 321650
- ○ 321900

Previous question    Next question

```sql
49  --------------
50
51  select A.sales_rep_id,date_of_first_100k-date_of_first_sale as min_days from
52  (select y.sales_rep_id,min(y.date_of_first_100k)  date_of_first_100k from
53  (select x.sales_rep_id,x.occurred_at as date_of_first_100k,min(total_sales) as min_to_100k from
54  (select account_id,sales_rep_id,occurred_at,
55  sum(total_amt_usd) over(partition by sales_rep_id order by occurred_at) as total_sales
56  from sqlchallenge1.accounts a
57  join sqlchallenge1.sales_reps rep on rep.id=a.sales_rep_id
58  join sqlchallenge1.orders o on o.account_id=a.id)x
59  group by x.sales_rep_id,x.occurred_at
60  having min(total_sales)>=100000)y
61  group by y.sales_rep_id
62  order by y.sales_rep_id)A
63
64  join
65
66  (select x.sales_rep_id,min(x.occurred_at) date_of_first_sale  from
67  (select account_id,sales_rep_id,occurred_at,
68  sum(total_amt_usd) over(partition by sales_rep_id order by occurred_at) as total_sales
69  from sqlchallenge1.accounts a
70  join sqlchallenge1.sales_reps rep on rep.id=a.sales_rep_id
71  join sqlchallenge1.orders o on o.account_id=a.id)x
72  group by x.sales_rep_id)B
73  on A.sales_rep_id=B.sales_rep_id
74  order by min_days
75  LIMIT 1
```

Data   Fields   Source

| | sales_rep_id | min_days |
|---|---|---|
| 1 | 321900 | 67 days 18:01:... |

Page 1

Page 1    of 1    ▶ ▶▶                                    Showing rows 1-1 of 1    C

--Least days to reach $100,000 sales

select A.sales_rep_id,date_of_first_100k-date_of_first_sale as min_days from

(select y.sales_rep_id,min(y.date_of_first_100k)  date_of_first_100k from

(select x.sales_rep_id,x.occurred_at as date_of_first_100k,min(total_sales) as min_to_100k from

(select account_id,sales_rep_id,occurred_at,

sum(total_amt_usd) over(partition by sales_rep_id order by occurred_at) as total_sales

from sqlchallenge1.accounts a

join sqlchallenge1.sales_reps rep on rep.id=a.sales_rep_id

join sqlchallenge1.orders o on o.account_id=a.id)x

group by x.sales_rep_id,x.occurred_at

having min(total_sales)>=100000)y

group by y.sales_rep_id

order by y.sales_rep_id)A

join

(select x.sales_rep_id,min(x.occurred_at) date_of_first_sale  from

(select account_id,sales_rep_id,occurred_at,

sum(total_amt_usd) over(partition by sales_rep_id order by occurred_at) as total_sales

from sqlchallenge1.accounts a

join sqlchallenge1.sales_reps rep on rep.id=a.sales_rep_id

join sqlchallenge1.orders o on o.account_id=a.id)x

group by x.sales_rep_id)B

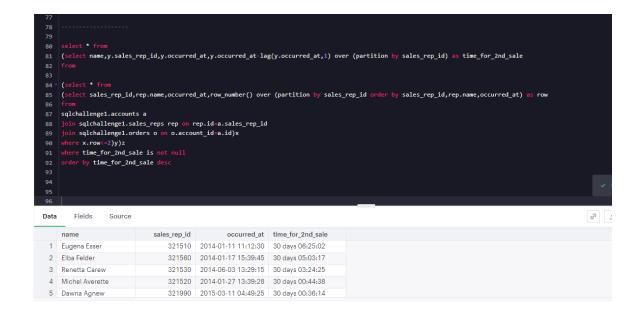on A.sales_rep_id=B.sales_rep_id

order by min_days

LIMIT 1

3.

## For Sales Reps with at least 2 orders, what is the name of the Sales Rep who went the longest time between their first and second order?

○ Samuel Racine

○ Julia Behrman

○ Nelle Meaux

☑ Eugena Esser

[Previous question] [Next question]

```
77
78  ..................
79
80  select * from
81  (select name,y.sales_rep_id,y.occurred_at,y.occurred_at-lag(y.occurred_at,1) over (partition by sales_rep_id) as time_for_2nd_sale
82  from
83
84  (select * from
85  (select sales_rep_id,rep.name,occurred_at,row_number() over (partition by sales_rep_id order by sales_rep_id,rep.name,occurred_at) as row
86  from
87  sqlchallenge1.accounts a
88  join sqlchallenge1.sales_reps rep on rep.id=a.sales_rep_id
89  join sqlchallenge1.orders o on o.account_id=a.id)x
90  where x.row<=2)y)z
91  where time_for_2nd_sale is not null
92  order by time_for_2nd_sale desc
93
94
95
96
```

**Data**    Fields    Source

| | name | sales_rep_id | occurred_at | time_for_2nd_sale |
|---|---|---|---|---|
| 1 | Eugena Esser | 321510 | 2014-01-11 11:12:30 | 30 days 06:25:02 |
| 2 | Elba Felder | 321560 | 2014-01-17 15:39:45 | 30 days 05:03:17 |
| 3 | Renetta Carew | 321530 | 2014-06-03 13:29:15 | 30 days 03:24:25 |
| 4 | Michel Averette | 321520 | 2014-01-27 13:39:28 | 30 days 00:44:38 |
| 5 | Dawna Agnew | 321990 | 2015-03-11 04:49:25 | 30 days 00:36:14 |

select * from

(select name,y.sales_rep_id,y.occurred_at,y.occurred_at-lag(y.occurred_at,1) over (partition by sales_rep_id) as time_for_2nd_sale

from


(select * from

(select sales_rep_id,rep.name,occurred_at,row_number() over (partition by sales_rep_id order by sales_rep_id,rep.name,occurred_at) as row

from

sqlchallenge1.accounts a

join sqlchallenge1.sales_reps rep on rep.id=a.sales_rep_id

join sqlchallenge1.orders o on o.account_id=a.id)x

where x.row<=2)y)z

where time_for_2nd_sale is not null

order by time_for_2nd_sale desc

4.

How many Sales Reps had at least 9 orders before surpassing $10k cumulative sales?

○ 4

○ 3

○ 2

○ 1

| | sales_rep_id | total_sales | count1 |
|---|---|---|---|
| **Data** | **Fields** | **Source** | |
| 1 | 321670 | 21755.46 | 9 |
| 2 | 321790 | 10765.34 | 9 |

select distinct sales_rep_id,total_sales,count1 from (select sales_rep_id,total,total_amt_usd,

sum(total_amt_usd) over(partition by sales_rep_id order by total) as total_sales,

count(1)over(partition by sales_rep_id order by total) as count1

from sqlchallenge1.accounts a

join sqlchallenge1.sales_reps rep on rep.id=a.sales_rep_id

join sqlchallenge1.orders o on o.account_id=a.id)x

where count1=9 and total_sales>=10000

5.

What two-calendar-day period had the largest
dollar amount of purchases? (Enter the first day
in YYYY-MM-DD format.)

○ 2016-10-26

○ 2016-12-26

○ 2016-12-20

| Previous question | Give me a score |
|---|---|

HARD CODE-

select sum(total_amt_usd) as dollar_purchases,date(occurred_at) as dates from sqlchallenge1.orders

where date(occurred_at)='2016-12-20' or date(occurred_at)='2016-12-21' or date(occurred_at)='2016-12-19'

group by date(occurred_at)

order by date(occurred_at)

Proper code-