

Day52 - March 28th 2024

1. Started my day at 6 am
2. Solved **45. Jump Game II** on leetcode
3. Please find my explanation here : [DSA_Arrays_03/28/2024](#)
4. Learned snowflake schema and star schema in data modeling class of today
Find the doc : [Data Modeling 03/28/2024](#)
5. Ended my day by solving complex SQL questions on Data Lemur

TikTok SQL Interview Question

datalemur.com/questions/second-day-confirmation

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Second Day Confirmation [TikTok SQL Interview Question]

DescriptionSolutionDiscussionSubmissions

EasyTikTokShare on TwitterShare on LinkedIn

Assume you're given tables with information about TikTok user sign-ups and confirmations through email and text. New users on TikTok sign up using their email addresses, and upon sign-up, each user receives a text message confirmation to activate their account.

Write a query to display the user IDs of those who did not confirm their sign-up on the first day, but confirmed on the second day.

Definition:

- action_date refers to the date when users activated their accounts and confirmed their sign-up through text messages.

emails Table:

Column Name	Type
email_id	integer
user_id	integer
signup_date	datetime

emails Example Input:

email_id	user_id	signup_date
125	7771	06/14/2022 00:00:00
433	1052	07/09/2022 00:00:00

1

PostgreSQL 14

Run CodeSubmit

Output

user_id

1052

1235

DOW+0.16%

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123 with cte as
2 (SELECT *,row_number() over(PARTITION BY e.user_id order by t.action_date) as rn FROM em
3 left join texts t on e.email_id = t.email_id)
4 select user_id from cte
5 where rn = 2 and signup_action = 'Confirmed'

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Run CodeSubmit

Output

user_id

1052

1235

DOW+0.16%

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JPMorgan Chase SQL Interview

datalemur.com/questions/cards-issued-difference

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Cards Issued Difference [JPMorgan Chase SQL Interview Question]

Description

Solution

Discussion

Submissions

Easy

JPMorgan Chase

Share on Twitter

Share on LinkedIn

Your team at JPMorgan Chase is preparing to launch a new credit card, and to gain some insights, you're analyzing how many credit cards were issued each month.

Write a query that outputs the name of each credit card and the difference in the number of issued cards between the month with the highest issuance cards and the lowest issuance. Arrange the results based on the largest disparity.

monthly_cards_issued Table:

Column Name	Type
issue_month	integer
issue_year	integer
card_name	string
issued_amount	integer

monthly_cards_issued Example Input:

card_name	issued_amount	issue_month	issue_year
Chase Freedom Flex	55000	1	2021
Chase Freedom Flex	60000	2	2021
Chase Freedom Flex	65000	3	2021

1

PostgreSQL 14

Run Code

Submit

Output

card_name	difference
Chase Sapphire Reserve	30000
Chase Freedom Flex	15000

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JPMorgan Chase SQL Interview

datalemur.com/questions/cards-issued-difference

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Cards Issued Difference [JPMorgan Chase SQL Interview Question]

Description

Solution

Discussion

Submissions

Accepted

Congrats - Share this problem, and your solution, on LinkedIn or Twitter!

Share on Twitter

Share on LinkedIn

In your post, don't forget to tag Nick Singh, so that he can comment on and share your post with his audience of 150k+ followers on [LinkedIn](#) and 25k+ followers on [Twitter](#) (which will give your post and profile more visibility)!

Output

card_name	difference
Chase Sapphire Reserve	30000
Chase Freedom Flex	15000

Expected

card_name	difference
Chase Sapphire Reserve	30000
Chase Freedom Flex	15000

1

PostgreSQL 14

Run Code

Submit

Output

```
1 SELECT card_name, max(issued_amount)-min(issued_amount) as difference FROM monthly_cards_issued
2 group by card_name
3 order by difference desc;
4
```

card_name	difference
Chase Sapphire Reserve	30000
Chase Freedom Flex	15000

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Alibaba SQL Interview Question

datalemur.com/questions/alibaba-compressed-mean

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Compressed Mean [Alibaba SQL Interview Question]

DescriptionSolutionDiscussionSubmissions

EasyAlibabaShare on TwitterShare on LinkedIn

You're trying to find the mean number of items per order on Alibaba, rounded to 1 decimal place using tables which includes information on the count of items in each order (`item_count` table) and the corresponding number of orders for each item count (`order_occurrences` table).

items_per_order Table:

Column Name	Type
item_count	integer
order_occurrences	integer

items_per_order Example Input:

item_count	order_occurrences
1	500
2	1000
3	800
4	1000

There are a total of 500 orders with one item per order, 1000 orders with two items per order, and 800 orders with three items per order."

Example Output:

1

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Run CodeSubmit

Output

mean

3.9

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Alibaba SQL Interview Question

datalemur.com/questions/alibaba-compressed-mean

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4	1000

There are a total of 500 orders with one item per order, 1000 orders with two items per order, and 800 orders with three items per order."

Example Output:

1 SELECT ROUND(sum(item_count::DECIMAL*order_occurrences)/sum(order_occurrences),1)
2 as mean FROM items_per_order;

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Run CodeSubmit

Output

mean

3.9

19°C Sunny

Search

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