

Day 53 - March 29th 2024

1. Started my day at 6 am
2. Solved **274. H-Index** on leetcode
Find my explanation doc here [DSA Arrays 03/29/2024](#)
3. Today learned about different keys in the data and their importance
Doc : [Data Modeling 03/29/2024](#)
4. Ended my day by solving complex Question from Data lemur

CVS Health SQL Interview Question

datalemur.com/questions/non-profitable-drugs

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Pharmacy Analytics (Part 2) [CVS Health SQL Interview Question]

Description Solution Discussion Submissions

Easy CVS Health [Share on Twitter](#) [Share on LinkedIn](#)

CVS Health is analyzing its pharmacy sales data, and how well different products are selling in the market. Each drug is exclusively manufactured by a single manufacturer.

Write a query to identify the manufacturers associated with the drugs that resulted in losses for CVS Health and calculate the total amount of losses incurred.

Output the manufacturer's name, the number of drugs associated with losses, and the total losses in absolute value. Display the results sorted in descending order with the highest losses displayed at the top.

If you like this question, try out [Pharmacy Analytics \(Part 3\)](#)!

pharmacy_sales Table:

Column Name	Type
product_id	integer
units_sold	integer
total_sales	decimal
cogs	decimal
manufacturer	varchar
drug	varchar

pharmacy_sales Example Input:

PostgreSQL 14

Run Code Submit

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CVS Health SQL Interview Quest

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Solution

Discussion

Submissions

Easy

CVS Health

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pharmacy_sales Table:

Column Name	Type
product_id	integer
units_sold	integer
total_sales	decimal
cogs	decimal
manufacturer	varchar
drug	varchar

pharmacy_sales Example Input:

1 SELECT manufacturer, count(manufacturer) as drug_count, sum(cogs-total_sales) as total_loss;

2 where cogs-total_sales > 0

3 group by manufacturer

4 order by total_loss desc;

PostgreSQL 14

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CVS Health SQL Interview Quest

datalemur.com/questions/total-drugs-sales

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Pharmacy Analytics (Part 3) [CVS Health SQL Interview Question]

Description

Solution

Discussion

Submissions

Easy

CVS Health

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CVS Health wants to gain a clearer understanding of its pharmacy sales and the performance of various products.

Write a query to calculate the total drug sales for each manufacturer. Round the answer to the nearest million and report your results in descending order of total sales. In case of any duplicates, sort them alphabetically by the manufacturer name.

Since this data will be displayed on a dashboard viewed by business stakeholders, please format your results as follows: "\$36 million".

If you like this question, try out [Pharmacy Analytics \(Part 4\)](#)!

pharmacy_sales Table:

Column Name	Type
product_id	integer
units_sold	integer
total_sales	decimal
cogs	decimal
manufacturer	varchar
drug	varchar

pharmacy_sales Example Input:

1 SELECT manufacturer, CONCAT('\$', ROUND(SUM(total_sales) / 1000000), ' million') AS sales_mil;

2 FROM pharmacy_sales

3 GROUP BY manufacturer

4 order by SUM(total_sales) desc, manufacturer;

PostgreSQL 14

Run Code

Submit

Output

manufacturer	sales_mil
AbbVie	\$114 million
Eli Lilly	\$77 million
Biogen	\$70 million
Johnson & Johnson	\$43 million

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4) Shirdi Sai Baba Aarti - Shej Aarti

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Sending vs. Opening Snaps [Snapchat SQL Interview Question]

Description

Solution

Discussion

Submissions

Medium

Snapchat

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This is the same question as problem #25 in the SQL Chapter of [Ace the Data Science Interview](#)

Assume you're given tables with information on Snapchat users, including their ages and time spent sending and opening snaps.

Write a query to obtain a breakdown of the time spent sending vs. opening snaps as a percentage of total time spent on these activities grouped by age group. Round the percentage to 2 decimal places in the output.

Notes:

- Calculate the following percentages:
 - time spent sending / (Time spent sending + Time spent opening)
 - Time spent opening / (Time spent sending + Time spent opening)
- To avoid integer division in percentages, multiply by 100.0 and not 100.

Effective April 15th, 2023, the solution has been updated and optimised.

activities Table

Column Name	Type
activity_id	integer
user_id	integer
activity_type	string ('send', 'open', 'chat')
time spent	float

1

PostgreSQL 14

Run Code

Submit

Output

age_bucket	send_perc	open_perc
21-25	54.31	45.69
26-30	82.26	17.74
31-35	37.84	62.16

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Sending vs. Opening Snaps [Snapchat 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

age_bucket	send_perc	open_perc
21-25	54.31	45.69
26-30	82.26	17.74
31-35	37.84	62.16

Expected

age_bucket	send_perc	open_perc
21-25	54.31	45.69

1

PostgreSQL 14

Run Code

Submit

Output

```
1 SELECT age_bucket, ROUND(100.0*sum(case when activity_type = 'send' then (time_spent) end),
2 sum(case when activity_type = 'open' or activity_type = 'send' then time_spent end),2)as
3 ROUND(100.0*sum(case when activity_type = 'open' then (time_spent) end)/
4 sum(case when activity_type = 'open' or activity_type = 'send' then time_spent end),2)as
5 FROM activities a
6 inner join age_breakdown ab on a.user_id = ab.user_id
7 group by age_bucket
```

age_bucket	send_perc	open_perc
21-25	54.31	45.69
26-30	82.26	17.74
31-35	37.84	62.16

18°C

Mostly clear

Search

ENG US

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