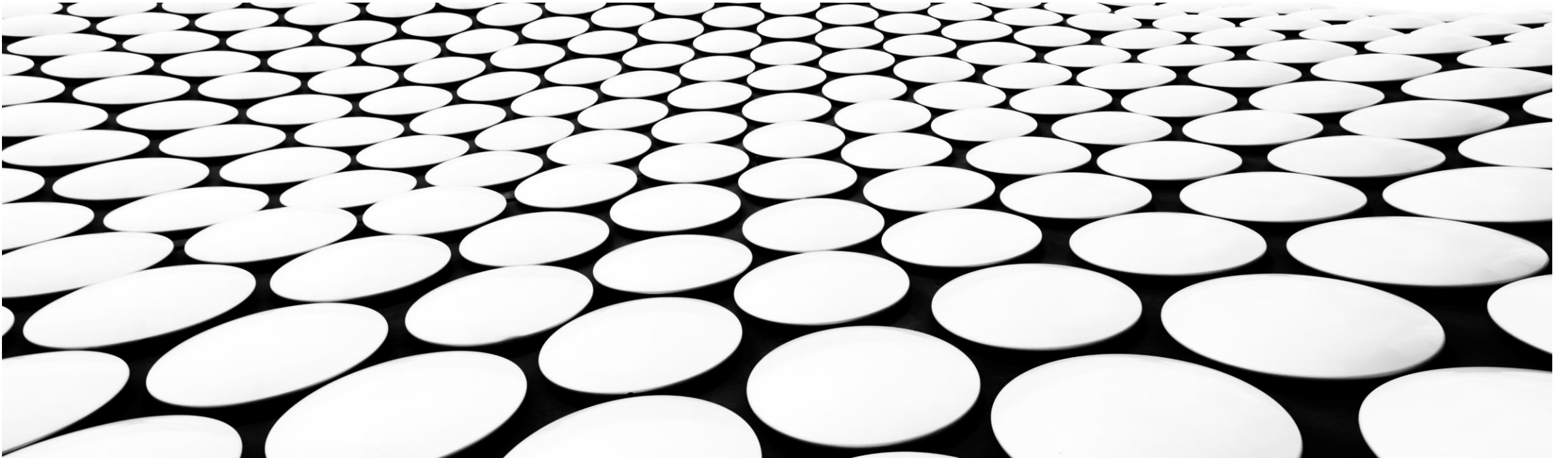

NEW YORK TIMES SQL INTERVIEW QUESTION

DATALAMUR

BY JOSHUA KAB



DESCRIPTION

viewership **Example Input**

user_id	device_type	view_time
123	tablet	01/02/2022 00:00:00
125	laptop	01/07/2022 00:00:00
128	laptop	02/09/2022 00:00:00
129	phone	02/09/2022 00:00:00
145	tablet	02/24/2022 00:00:00

ASSUME YOU'RE GIVEN THE TABLE ON USER VIEWERSHIP CATEGORISED BY DEVICE TYPE WHERE THE THREE TYPES ARE LAPTOP, TABLET, AND PHONE.

WRITE A QUERY THAT CALCULATES THE TOTAL VIEWERSHIP FOR LAPTOPS AND MOBILE DEVICES WHERE MOBILE IS DEFINED AS THE SUM OF TABLET AND PHONE VIEWERSHIP.

OUTPUT THE TOTAL VIEWERSHIP FOR LAPTOPS AS LAPTOP_REVIEW AND THE TOTAL VIEWERSHIP FOR MOBILE DEVICES AS MOBILE_VIEWS.

SOLUTION

SQL CODE

```
1 with cte as( SELECT device_type,
2 COUNT(view_time) as view
3 FROM viewership
4 GROUP BY device_type)
5
6 SELECT
7 sum (case when device_type in ('phone','tablet') then view else 0 end) as mobile_view,
8 sum (case when device_type ='laptop' then view else 0 end) as laptop
9 from cte
```

Result

mobile_view	laptop
3	2



THANKS...

