Mini Case Study

select the most popular client_Type based on a count of the number of users who have at least 50% of their events from the following list: 'video call received', 'video call sent', 'voice call received', 'voice call sent'.

Your Solution Output:

id	time_id	user_id	customer_id	client_id	event_type	event_id
1	2020-02-28	3668-QPYBK	Sendit	desktop	message sent	3
2	2020-02-28	7892-POOKP	Connectix	mobile	file received	2
3	2020-04-03	9763-GRSKD	Zoomit	desktop	video call received	7
4	2020-04-02	9763-GRSKD	Connectix	desktop	video call received	7
5	2020-02-06	9237-HQITU	Sendit	desktop	video call received	7
6	2020-02-27	8191-XWSZG	Connectix	desktop	file received	2
7	2020-04-03	9237-HQITU	Connectix	desktop	video call received	7
8	2020-03-01	9237-HQITU	Connectix	mobile	message received	4
9	2020-04-02	4190-MFLUW	Connectix	mobile	video call received	7
10	2020-04-21	9763-GRSKD	Sendit	desktop	file received	2

Select p_rank1. customer_id , sum (p_rank1.event_id) over() as number_of_events

From(

Select percent_rank() over (partition by customer_id , event type order by event_id desc) p_rank

From events

Where event_type in (*'video call received', 'video call sent', 'voice call received', 'voice call sent'***)**

) p_rank1

Where p_rank>=0.5

CREAT DATA

WITH MSevents

    AS

(

```sql
  SELECT  id  ,  time_id  ,  user_id  ,  customer_id  ,
client_id , event_type , event_id

        FROM(VALUES

  (1,'366-QBG','2020-02-28',  'Sendit',  'Desktop',
'message sent' , 3),

  (2,'367-QBG','2020-02-28', 'Connectix', 'mobile',
'file received' , 2),

  (3,'368-QBG','2020-04-03',  'Zoomit',  'Desktop',
'video call received', 7),

  (4,'366-QBH','2020-04-02',            'Connectix',
'Desktop', 'video call received', 7),

  (5,'362-QBG','2020-02-06',  'Sendit',  'Desktop',
'video call received', 7),

  (6,'316-QBG','2020-02-27',            'Connectix',
'Desktop' , 'file received' , 2),

  (7,'456-QBG','2020-04-03',            'Connectix',
'Desktop', 'video call received', 7),
```

```sql
    (8,'366-FBG','2020-03-01', 'Connectix', 'mobile' ,
'message received' , 4),

    (9,'366-QMG','2020-04-02',              'Connectix',
'mobile', 'video call received', 7),

    (10,'336-QBG','2020-04-21', 'Sendit' , 'Desktop',
'file received' , 2))

    Val(id , time_id , user_id , customer_id , client_id
, event_type , event_id))


    select * from  MSevents




--write your code here

SELECT *

FROM tab
```