## PROBLEM STATEMENT

Write a SQL query to return the footer values from input table, meaning all the last non null values from each field as shown in expected output.

INPUT									
ID	CAR	LENGTH	WIDTH	HEIGHT					
1	Hyundai Tucson	15	6						
2				20					
3		12	8	15					
4	Toyota Rav4		15						
5	Kia Sportage			18					

EXPECTED OUTPUT						
CAR	LENGTH	WIDTH	HEIGHT			
Kia Sportage	12	15	18			

## SOLUTION

```
With partition cte as(
select *,
sum(case when car is not null then 1 else 0 end) over (order by id asc rows between unbounded preceding and current row) as car partition,
sum(case when length is not null then 1 else 0 end) over (order by id asc rows between unbounded preceding and current row) as length partition,
sum(case when width is not null then 1 else 0 end) over (order by id asc rows between unbounded preceding and current row) as width_partition,
sum(case when height is not null then 1 else 0 end) over (order by id asc rows between unbounded preceding and current row) as height partition
from FOOTER
fetch max cte as(
select *,
MAX(car) over(PARTITION by car partition) as last car,
MAX(length) over(PARTITION by length partition) as last length,
MAX(width) over(PARTITION by width partition) as last width,
MAX(height) over(PARTITION by height partition) as last height
from partition cte
select top 1 last car as car, last length as length, last width as width, last height as height
from fetch max cte
order by id desc
```

⊞ Results		Messages				
	car		length	width	height	
1	Kia Sportage		12	15	18	