

5_Laptop vs. Mobile Viewership Solution Easy

Running Notes

- given a table of user viewership that has the type of device, id of the user and his/her view time (timestamp)
- We need to calculate total viewership
 - laptop_views - laptop views
 - + ◦ mobile_views - sum of tablet and phone viewership

```
SELECT device_type,COUNT(user_id) FROM viewership GROUP BY device_type;
```

so now with the above code I am just counting the users viewing different devices this is not the final query ofcourse this query is just for my understanding

Output

device_type	count
laptop	2
phone	1
tablet	2

So this is the output, so I know for my output I have to have 2 laptop_views and 3 mobile_views

```
SELECT COUNT(CASE WHEN device_type='laptop' THEN user_id END) AS laptop_views, COUNT(CASE WHEN device_type='phone' THEN user_id WHEN device_type='tablet' THEN user_id END) AS mobile_views FROM viewership;
```

The above is the final query, so what all I used here



CASE with SELECT

- **CASE** statement in the **SELECT** statement is used to create new columns or perform calculations based on specified conditions

I had to do both

- Create new columns -

laptop_views	mobile_views
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- Count the total viewership for laptops and mobile devices

Breakdown of the code

```
COUNT(CASE WHEN device_type='laptop' THEN user_id END) AS laptop_views
```

So basically here I am checking if the device type is laptop then I want the user_id and then I am doing a count of all user ids and storing that in a new column known as laptop_views and the same thing is done below

```
COUNT(CASE WHEN device_type='phone' THEN user_id WHEN  
device_type='tablet' THEN user_id END) AS mobile_views
```

but I could reduced 1 line of code by this

```
COUNT(CASE WHEN device_type IN ('phone','tablet') THEN user_id END) AS  
mobile_views
```

Final code:

```
SELECT COUNT(CASE WHEN device_type='laptop' THEN user_id END) AS  
laptop_views, COUNT(CASE WHEN device_type IN ('phone','tablet') THEN  
user_id END) AS mobile_views FROM viewership;
```

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