Bright TV Viewership Review

SQL Analysis on Snowflake



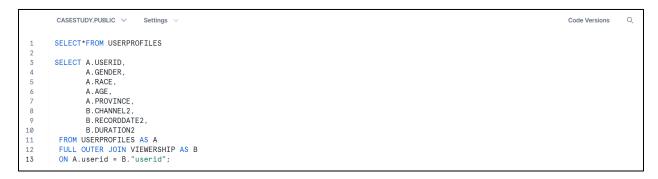
Presented by: Lerato Motsusi

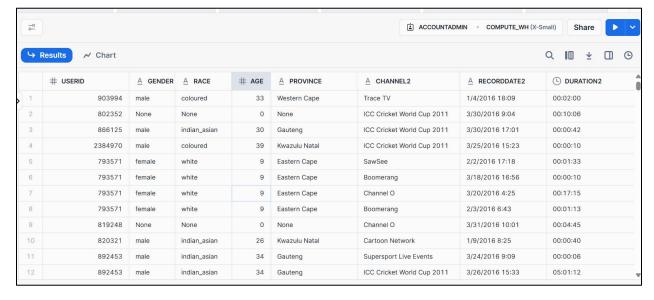
Combing User Profile Table and Viewership Table

I decided to join the two tables (Userprofile and Viewership) on a full outer join as I believe there are insights that can also be made from users who have profiles but have not watched any shows in the sample period.

It is also important to note that I did not include each users name, surname and email addresses as I do not believe that it will provide any significant insight to know the users personal details.

The Syntax used was:





Understanding the data

Syntax to count number of records to see what the size of the sample is. Based on the results, there are 11 295 records on the new combined tables.



Syntax to count number of unique User Profiles to see the number of profiles there are on record. Based on the results, there are 5375 unique User Profiles.

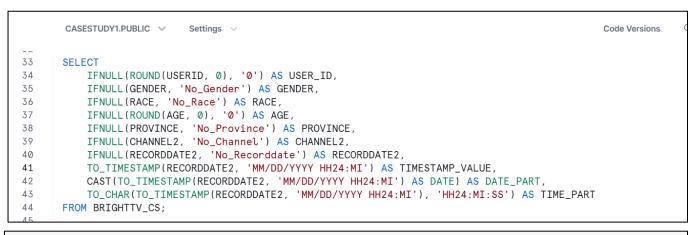


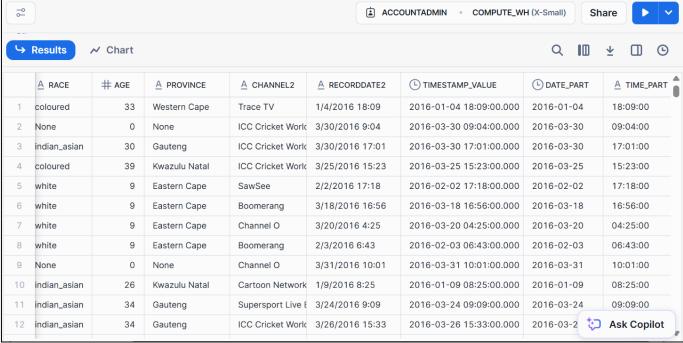
Replacing NULL Values and separating the Timestamp

In the syntax below, I wanted to achieve the below objectives:

- To make sure that I re-name all the 'NULL' or zero values in each column
- Round off the values in the 'User_ID' columns and the 'Age' columns
- Chang the content in the "Recorddate2" column from a string into a timestamp format
- Separate the timestamp columns into two separate columns one containing just the date, the other just containing the time.

The reason for all the above is to clean up the data and to also make sure the date and time are in a format that is usable for me to draw insights from this information.





Viewership by Province

The syntax below is to count number of users per province in descending order. Based on the results, Gauteng has the highest number of viewers, followed by the Western Cape and Kwa Zulu Natal. There are 221users who did not give information on the province they are in (NULL values).

```
CASESTUDY1.PUBLIC V Settings V Code Versions Q

COUNT(userid) AS User_count_by_Province
FROM brighttv_cs
GROUP BY PROVINCE
GROUP BY PROVINCE
ORDER BY user_count_by_province DESC;
```

	A PROVINCE	# USER_COUNT_BY_PROVINCE
1	Gauteng	378
2	Western Cape	188
3	Kwazulu Natal	12
4	Mpumalanga	96
5	None	8:
6	Limpopo	7
7	Eastern Cape	7
8	North West	3
9	Free State	36
	Northern Cape	2:

Most watched shows by viewers

The syntax below is to count number of users per show on Channel 2 in descending order. Based on the results, Supersport Live Events were the most watched show on the channel, closely followed by the ICC Cricket World Cup 2011. We do not have information on what show was being watched by the third highest number of users. This will need to be further investigated.

```
CASESTUDY1.PUBLIC Settings Code Versions Q

SELECT

CHANNEL2,
COUNT(userid) AS Channel2_Viewership
FROM BRIGHTTV_CS
GROUP BY CHANNEL2

GROUP BY CHANNEL2

ORDER BY Channel2_Viewership DESC;
```



Viewership Split By Age Buckets

The syntax below is to group users according to various age buckets. The results show us that the people who watch Channel 2 are adults between the ages of 30-50.s

```
CASESTUDY1.PUBLIC V
                          Settings V
                                                                                                  Code Versions
 92
       SELECT
 93
            CASE
94
                WHEN AGE IS NULL THEN 'Unknown'
 95
                WHEN AGE < 13 THEN 'Child'
                WHEN AGE >= 13 AND AGE < 18 THEN 'Teen'
96
97
                WHEN AGE >= 18 AND AGE < 30 THEN 'Young Adult'
                WHEN AGE >= 30 AND AGE < 50 THEN 'Adult'
98
 99
                WHEN AGE >= 50 AND AGE < 65 THEN 'Middle Aged'
                WHEN AGE >= 65 THEN 'Senior'
100
101
                ELSE 'Other'
102
            END AS AGE_GROUP,
            COUNT(USERID) AS USER_COUNT
103
        FROM BRIGHTTV_CS
104
105
        GROUP BY
106
            CASE
                WHEN AGE IS NULL THEN 'Unknown'
107
108
                WHEN AGE < 13 THEN 'Child'
109
                WHEN AGE >= 13 AND AGE < 18 THEN 'Teen'
                WHEN AGE >= 18 AND AGE < 30 THEN 'Young Adult'
110
                                                                                                    Ask Copilot
111
                WHEN AGE >= 30 AND AGE < 50 THEN 'Adult
112
                WHEN AGE >= 50 AND AGE < 65 THEN 'Middle Aged'
                WHEN ACE - 45 THEM 'Conton'
```

→ Results								
	A AGE_GROUP	# USER_COUNT						
1	Senior	53						
2	Teen	199						
3	Middle Aged	529						
4	Child	1151						
5	Young Adult	3782						
6	Adult	5581						

Viewership Split By Time Slots

The below syntax buckets the record time of when the user started watching a show by time slots through out the day. The results show us that the most popular time slot that our sample of people would watch Channel 2 was in the afternoon time slot, which is between 12 noon to 6pm.

```
CASESTUDY1.PUBLIC V
                                                                                                               Q
                            Settings V
                                                                                                  Code Versions
328
329
      SELECT
330
           CASE
                WHEN TIME_CONVERTED BETWEEN '05:00:00' AND '11:59:59' THEN 'Morning_Viewing'
331
                WHEN TIME_CONVERTED BETWEEN '12:00:00' AND '17:59:59' THEN 'Afternoon_Viewing'
332
                WHEN TIME_CONVERTED BETWEEN '18:00:00' AND '23:59:59' THEN 'Evening_Viewing'
333
334
               ELSE 'Midnight_Viewing'
335
           END AS Viewing_slots,
336
           COUNT (USERID) AS USER_COUNT
337
       FROM BRIGHTTV_CS
       GROUP BY
338
339
                WHEN TIME_CONVERTED BETWEEN '05:00:00' AND '11:59:59' THEN 'Morning_Viewing'
340
                WHEN TIME_CONVERTED BETWEEN '12:00:00' AND '17:59:59' THEN 'Afternoon_Viewing'
341
                WHEN TIME_CONVERTED BETWEEN '18:00:00' AND '23:59:59' THEN 'Evening_Viewing'
342
343
                ELSE 'Midnight_Viewing'
344
345
           ORDER BY User_count DESC;
346
                                                                                                    Ask Copilot
347
348
```

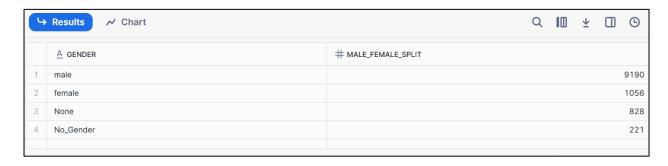
4	Results		Q	10	<u>*</u>	(
	A VIEWING_SLOTS	# USER_COUNT				
1	Afternoon_Viewing					3807
2	Morning_Viewing					3383
3	Evening_Viewing					2352
4	Midnight_Viewing					1753

Viewership Split By Gender

The syntax below is to count number of males and females in the data set. From the results, we can see that most of the viewers are males (9190) which can be a possible reason as to why sports shows make up 60% of the shows viewed on Channel 2. Many men enjoy watching sports.

```
CASESTUDY1.PUBLIC Settings Code Versions

172 SELECT
173 GENDER,
174 COUNT(userid) AS Male_Female_Split
175 FROM BRIGHTTV_CS
176 GROUP BY GENDER
177 ORDER BY Male_Female_Split DESC;
```



Power BI Dashboard

