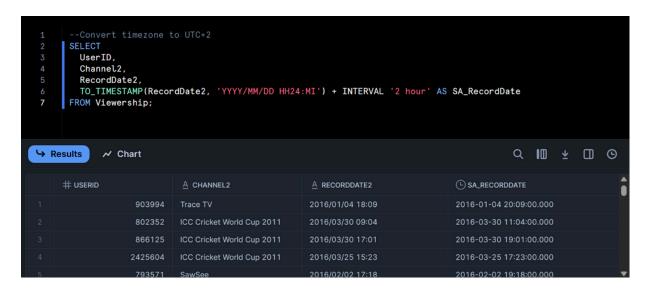
BrightTV Case Study

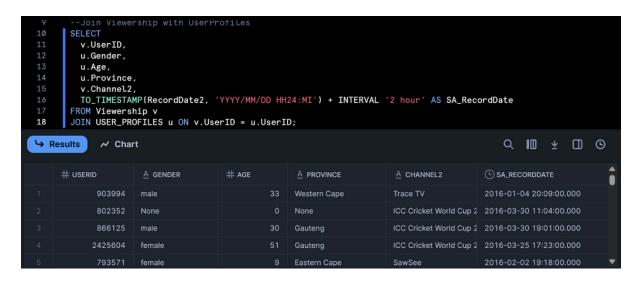
Workflows & Scripts

Snowflake:

1) Convert UTC to SA time (add 2 hours) (TO_TIMESTAMP)



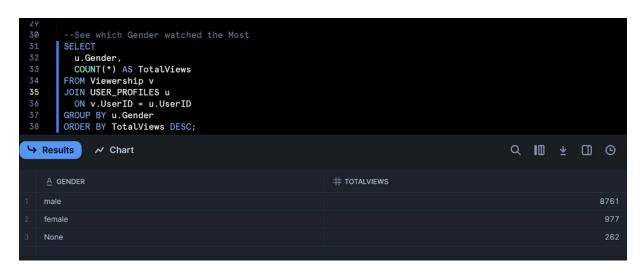
2) Join Viewership with UserProfiles (TO_TIMESTAMP & JOIN)



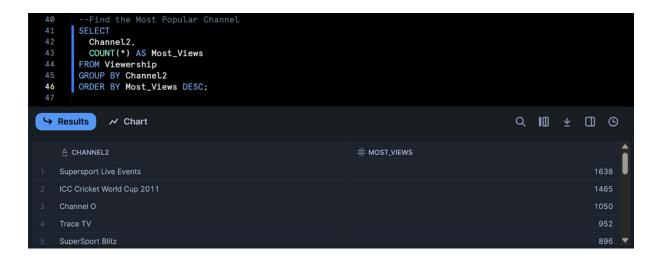
3) Find the Most Watched Days (DAYNAME, COUNT, GROUP BY & ORDER BY)



4) Check Which Gender Watches the Most (COUNT, JOIN, GROUP BY & ORDER BY)



5) Find the Most Popular Channel (GROUP BY & ORDER BY)



6) What Content is Watched Each Day (GROUP BY & ORDER BY)



7) Viewership by Age (CASE Statement)

```
--Viewership by Age

SELECT v.Channel2,

CASE

WHEN u.Age < 20 THEN 'Under 20'

WHEN u.Age BETWEEN 20 AND 29 THEN '20-29'

WHEN u.Age BETWEEN 30 AND 39 THEN '30-39'

WHEN u.Age BETWEEN 40 AND 49 THEN '40-49'

WHEN u.Age BETWEEN 50 AND 59 THEN '50-59'

ELSE '60+'

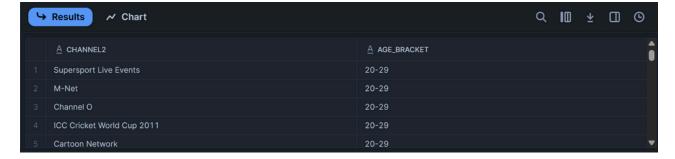
END AS Age_Bracket,

FROM Viewership v

JOIN USER_PROFILES u ON v.UserID = u.UserID

GROUP BY Age_Bracket, v.Channel2

ORDER BY Age_Bracket;
```



Excel:

1) Add South African Time (UTC+2) Column



SA_Time(UTC+2)

Formula: C2+TIME(2;0;0)

2) Add Day of the Week



Day of Week

Formula: TEXT(C2; "dddd")

3) Format Gender values



Gender

Formula: PROPER(E)

4) Format Race values



Race

Formula: PROPER(F)

5) Added Time of Day Column (IF Statements)



Time of Day

Formula: IF(HOUR(E2)>=5; IF(HOUR(E2)<12; "Morning"; IF(HOUR(E2)<18; "Afternoon"; "Evening")); "Evening")

6) Add Watching Duration Column



Watching Duration

Formula: IF(HOUR(D2)>0; HOUR(D2)&" hour(s) "&MINUTE(D2)&" minute(s)"; IF(MINUTE(D2)>0; MINUTE(D2)&" minute(s)"; SECOND(D2)&" second(s)"))

7) Add Age Brackets Column

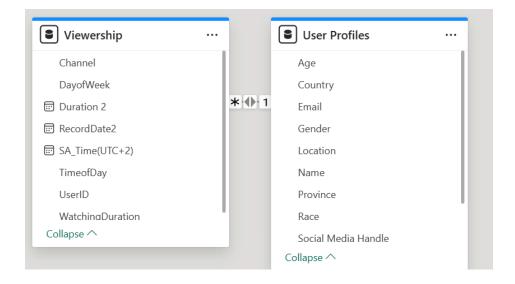


Age Brackets

Formula: IF(G2<20; "Under 20"; IF(G2<30; "20-29"; IF(G2<40; "30-39"; IF(G2<50; "40-49"; IF(G2<60; "50-59"; "60+"))))

PowerBI:

- 1) Upload the clean Excel sheet
- 2) Create Relationship using UserID



3) Create Visuals (Total Views by Day, Views by Gender, Top 5 Channels, Views by Province, Views by Hour, Views by Age Group)

