

## Viewing of Data

I selected (\*) to return all the columns that are there on the viewership table. The results return all 4 columns from this table

```
SELECT
*
FROM
"BRIGHT_CASESTUDY"."PUBLIC"."VIEWERSHIP";
```

↳ Results

~ Chart

	# USERID	A CHANNEL2	A RECORDDATE2	🕒 DURATION_2
1	903994	Trace TV	2016/01/04 18:09	00:02:00
2	802352	ICC Cricket World Cup 2011	2016/03/30 09:04	00:10:06
3	866125	ICC Cricket World Cup 2011	2016/03/30 17:01	00:00:42
4	2425604	ICC Cricket World Cup 2011	2016/03/25 15:23	00:00:10
5	793571	SawSee	2016/02/02 17:18	00:01:33
6	793571	Boomerang	2016/03/18 16:56	00:00:10
7	793571	Channel O	2016/03/20 04:25	00:17:15
8	793571	Boomerang	2016/02/03 06:43	00:01:13
9	819248	Channel O	2016/03/31 10:01	00:04:45
10	820321	Cartoon Network	2016/01/09 08:25	00:00:40
11	892453	Supersport Live Events	2016/03/24 09:09	00:00:06
12	892453	ICC Cricket World Cup 2011	2016/03/26 15:33	05:01:12
13	828799	Channel O	2016/02/28 08:09	00:00:00

## Viewing Data for View table

I selected (\*) to return all the columns that are there on the views table. The results return all 9 columns from this table

```

30 SELECT
31 *
32 FROM
33 "BRIGHT_CASESTUDY"."PUBLIC"."VIEWS";

```

Results

Chart

	#	USER	NAME	SURNAME	EMAIL	GENDER	RACE	AGE	PROVINCE	SOCIAL_MEDIA_HANDLE
1	34	Chas	Biggers	Chas351@yahoo.com	male	white	55	Free State	@Chas35	
2	39	Wilburn	Crotty	Wilburn303@mail.com	male	black	54	Eastern Cape	@Wilburn30	
3	63	Emerson	Slane	Emerson243@mail.co	male	black	51	Kwazulu Natal	@Emerson24	
4	90	Stacy	Sytsma	Stacy273@mail.com	male	coloured	49	Kwazulu Natal	@Stacy27	
5	97	Lucas	Woolard	Lucas233@mail.com	male	coloured	48	Free State	@Lucas23	
6	104	Randy	Tancredi	Randy393@mail.com	male	black	47	Gauteng	@Randy39	
7	107	Trudie	Restivo	Trudie502@gmail.com	female	black	47	Gauteng	@Trudie50	
8	108	Chas	Luthy	Chas352@gmail.com	male	coloured	47	Western Cape	@Chas35	
9	120	Jared	Bilyeu	Jared503@mail.com	male	coloured	46	Western Cape	@Jared50	
10	132	Carter	Wigfall	Carter333@mail.com	male	black	45	Gauteng	@Carter3	
11	135	Emerson	Beville	Emerson241@yahoo.co	male	other	45	Gauteng	@Emerson24	
12	138	Abel	Hier	Abel185@mailxyz.com	male	None	45	Eastern Cape	@Abel18	
13	140	Emerson	Beville	Emerson241@yahoo.co	male	other	45	Gauteng	@Emerson24	

## Joining of the two tables

```
SELECT
*
FROM
"BRIGHT_CASESTUDY"."PUBLIC"."VIEWS" AS A
FULL OUTER JOIN "BRIGHT_CASESTUDY"."PUBLIC"."VIEWERSHIP" AS B
ON A.USERID=B.USERID;
```

I wrote a query to group date by quarters and divided them into 4 categories. That is all performed under CASE statement and gave the name of the column as quarterly record and that is going together with full outer join of table A and B. The results tend to show an additional column called quarterly record and all column mentioned

```
SELECT
  A.USERID, A. NAME, A. SURNAME, A. EMAIL, A. GENDER, A. RACE, A. AGE, A. PROVINCE, B. CHANNEL2, B. RECORDDATE2, B. DURATION_2,
  CASE
    WHEN RECORDDATE2 BETWEEN '01/01/2016' AND '30/03/2016' THEN 'FIRST_QUATER'
    WHEN RECORDDATE2 BETWEEN '01/04/2016' AND '30/06/2016' THEN 'SECOND_QUATER'
    WHEN RECORDDATE2 BETWEEN '01/07/2016' AND '30/09/2016' THEN 'THIRD_QUATER'
    ELSE 'LAST_QUATER'
  END AS QUARTERLY_RECORD
FROM
  "BRIGHT_CASESTUDY"."PUBLIC"."VIEWS" AS A
FULL OUTER JOIN "BRIGHT_CASESTUDY"."PUBLIC"."VIEWERSHIP" AS B
ON A.USERID=B.USERID;
```

Results Chart												
	# USERID	A NAME	A SURNAME	A EMAIL	A GENDER	A RACE	# AGE	A PROVINCE	A CHANNEL2	A RECORDDATE2	DURATION_2	A QUARTERLY_RECORD
1	903994	Bernardo	Hier	Bernardo323@ma	male	coloured	33	Western Cape	Trace TV	2016/01/04 18:00	00:02:00	FIRST_QUATER
2	802352	None	None	Shelley34@abcm	None	None	0	None	ICC Cricket Wor	2016/03/30 09:00	00:10:06	FIRST_QUATER
3	866125	Emerson	Mccollum	Emerson243@mai	male	indian_asian	30	Gauteng	ICC Cricket Wor	2016/03/30 17:00	00:00:42	FIRST_QUATER
4	2425604	Tiffani	Pilot	Tiffani433@mail.c	female	white	51	Gauteng	ICC Cricket Wor	2016/03/25 15:20	00:00:10	FIRST_QUATER
5	793571	Shelley	Reisinger	Shelley234@abcr	female	white	9	Eastern Cape	SawSee	2016/02/02 17:10	00:01:33	FIRST_QUATER
6	793571	Shelley	Reisinger	Shelley234@abcr	female	white	9	Eastern Cape	Boomerang	2016/03/18 16:50	00:00:10	FIRST_QUATER
7	793571	Shelley	Reisinger	Shelley234@abcr	female	white	9	Eastern Cape	Channel O	2016/03/20 04:20	00:17:15	FIRST_QUATER
8	793571	Shelley	Reisinger	Shelley234@abcr	female	white	9	Eastern Cape	Boomerang	2016/02/03 06:40	00:01:13	FIRST_QUATER
9	819248	None	None	Bess381@yahoo.c	None	None	0	None	Channel O	2016/03/31 10:00	00:04:45	FIRST_QUATER
10	820321	Haywood	Singer	Haywood92@gma	male	indian_asian	26	Kwazulu Natal	Cartoon Networ	2016/01/09 08:20	00:00:40	FIRST_QUATER
11	892453	Eli	Caves	Eli291@yahoo.cor	male	indian_asian	34	Gauteng	Supersport Live	2016/03/24 09:00	00:00:06	FIRST_QUATER
12	892453	Eli	Caves	Eli291@yahoo.cor	male	indian_asian	34	Gauteng	ICC Cricket Wor	2016/03/26 15:30	05:01:12	FIRST_QUATER

## Data interpretation

CASE statement was also used here to group age into certain categories; there are 4 categories based on their age going along with the CASE statement of Quarterly record with full outer join of table A and B. It shows all the columns mentioned and add the column called age group

BRIGHT\_CASESTUDY.PUBLIC Settings Code Versions

```
1  --- This code include the Age being grouped
2  SELECT
3      A.USERID, A.NAME, A.SURNAME, A.EMAIL, A.GENDER, A.RACE, A.AGE, A.PROVINCE, B.CHANNEL2, B.RECORDDATE2, B.DURATION_2,
4      CASE
5          WHEN RECORDDATE2 BETWEEN '01/01/2016' AND '30/03/2016' THEN 'FIRST_QUATER'
6          WHEN RECORDDATE2 BETWEEN '01/04/2016' AND '30/06/2016' THEN 'SECOND_QUATER'
7          WHEN RECORDDATE2 BETWEEN '01/07/2016' AND '30/09/2016' THEN 'THIRD_QUATER'
8          ELSE 'LAST_QUATER'
9      END AS QUARTERLY_RECORD,
10
11      CASE
12          WHEN AGE BETWEEN '0' AND '18' THEN 'YOUNG'
13          WHEN AGE BETWEEN '19' AND '30' THEN 'YOUTH'
14          WHEN AGE BETWEEN '31' AND '59' THEN 'ADULT'
15          ELSE 'PENSIONER'
16      END AS AGE_GROUP
17
18  FROM
19      "BRIGHT_CASESTUDY"."PUBLIC"."VIEWS" AS A
20  FULL OUTER JOIN "BRIGHT_CASESTUDY"."PUBLIC"."VIEWERSHIP" AS B
21      ON A.USERID=B.USERID;
22
```

Results Chart

		GENDER	RACE	AGE	PROVINCE	CHANNEL2	RECORDDATE2	DURATION_2	QUARTERLY_RECORD	AGE_GROUP
1	@mail.com	male	coloured	33	Western Cape	Trace TV	2016/01/04 18:09	00:02:00	FIRST_QUATER	ADULT
2	bcmail.com	None	None	0	None	ICC Cricket Work	2016/03/30 09:04	00:10:06	FIRST_QUATER	YOUNG
3	@mail.com	male	indian_asian	30	Gauteng	ICC Cricket Work	2016/03/30 17:01	00:00:42	FIRST_QUATER	YOUTH
4	mail.com	female	white	51	Gauteng	ICC Cricket Work	2016/03/25 15:23	00:00:10	FIRST_QUATER	ADULT
5	abcmail.com	female	white	9	Eastern Cape	SawSee	2016/02/02 17:18	00:01:33	FIRST_QUATER	YOUNG
6	abcmail.com	female	white	9	Eastern Cape	Boomerang	2016/03/18 16:56	00:00:10	FIRST_QUATER	YOUNG
7	abcmail.com	female	white	9	Eastern Cape	Channel O	2016/03/20 04:25	00:17:15	FIRST_QUATER	YOUNG
8	abcmail.com	female	white	9	Eastern Cape	Boomerang	2016/02/03 06:43	00:01:13	FIRST_QUATER	YOUNG
9	hoo.com	None	None	0	None	Channel O	2016/03/31 10:01	00:04:45	FIRST_QUATER	YOUNG
10	@gmail.com	male	indian_asian	26	Kwazulu Natal	Cartoon Network	2016/01/09 08:25	00:00:40	FIRST_QUATER	YOUTH
11	o.com	male	indian_asian	34	Gauteng	Supersport Live	2016/03/24 09:09	00:00:06	FIRST_QUATER	ADULT
12	o.com	male	indian_asian	34	Gauteng	ICC Cricket Work	2016/03/26 15:33	05:01:12	FIRST_QUATER	ADULT