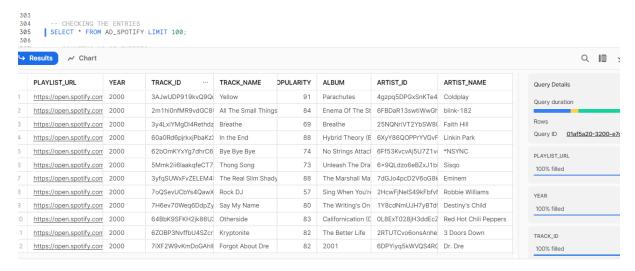```
-- ACTIVATING THE DATABASE

USE DATABASE AD_ASSIGNMENT;

-- CREATING A TABLE

CREATE OR REPLACE TABLE AD_SPOTIFY
(
    PLAYLIST_URL VARCHAR (100),
    YEAR VARCHAR (5),
    TRACK_ID VARCHAR (50),
    TRACK_NAME VARCHAR (250),
    TRACK_POPULARITY INT,
    ALBUM VARCHAR (200),
    ARTIST_ID VARCHAR (100),
    ARTIST_NAME VARCHAR (100),
    ARTIST_GENRES VARCHAR (500),
    ARTIST_POPULARITY INT,
    DANCEABILITY DECIMAL (4,3),
    ENERGY DECIMAL (4,3),
    KEY INT,
    LOUDNESS DECIMAL (5,3),
    MODE INT,
    SPEECHINESS DECIMAL(5,4),
    ACOUSTICNESS DECIMAL(10,8),
    INSTRUMENTALNESS VARCHAR(10),
    LIVENESS DECIMAL (5,4),
    VALENCE DECIMAL (5,4),
    TEMPO DECIMAL(6,3),
    DURATION INT,
    TIME_SIGNATURE INT
);
```

## -- CHECKING THE ENTRIES

## SELECT * FROM AD_SPOTIFY LIMIT 100;
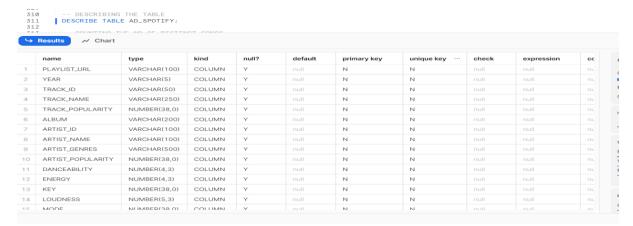
```
303
304   -- CHECKING THE ENTRIES
305 | SELECT * FROM AD_SPOTIFY LIMIT 100;
306
```

↳ Results    ∿ Chart

| | PLAYLIST_URL | YEAR | TRACK_ID | ··· | TRACK_NAME | OPULARITY | ALBUM | ARTIST_ID | ARTIST_NAME |
|---|---|---|---|---|---|---|---|---|---|
| 1 | https://open.spotify.com | 2000 | 3AJwUDP919kvQ9Q | | Yellow | 91 | Parachutes | 4gzpq5DPGxSnKTe4 | Coldplay |
| 2 | https://open.spotify.com | 2000 | 2m1hi0nfMR9vdGC8 | | All The Small Things | 84 | Enema Of The St | 6FBDaR13swtiWwGh | blink-182 |
| 3 | https://open.spotify.com | 2000 | 3y4LxiYMgDl4Rethdz | | Breathe | 69 | Breathe | 25NQNriVT2YbSW8( | Faith Hill |
| 4 | https://open.spotify.com | 2000 | 60a0Rd6pjrkxjPbaKz | | In the End | 88 | Hybrid Theory (E | 6XyY86QOPPrYVGvF | Linkin Park |
| 5 | https://open.spotify.com | 2000 | 62bOmKYxYg7dhrC6 | | Bye Bye Bye | 74 | No Strings Attacl | 6Ff53KvcvAj5U7Z1v | *NSYNC |
| 6 | https://open.spotify.com | 2000 | 5Mmk2ii6laakqfeCT7 | | Thong Song | 73 | Unleash The Dra | 6×9QLdzo6eBZxJ1b| | Sisqo |
| 7 | https://open.spotify.com | 2000 | 3yfqSUWxFvZELEM4| | The Real Slim Shady | 88 | The Marshall Ma | 7dGJo4pcD2V6oG8k | Eminem |
| 8 | https://open.spotify.com | 2000 | 7oQSevUCbYs4QawX | | Rock DJ | 57 | Sing When You're | 2HcwFjNelS49kFbfvl | Robbie Williams |
| 9 | https://open.spotify.com | 2000 | 7H6ev70Weq6DdpZy | | Say My Name | 80 | The Writing's On | 1Y8cdNmUJH7yBTd! | Destiny's Child |
| 0 | https://open.spotify.com | 2000 | 64BbK9SFKH2jk86U: | | Otherside | 83 | Californication (L | 0L8ExT028jH3ddEcZ | Red Hot Chili Peppers |
| 1 | https://open.spotify.com | 2000 | 6ZOBP3NvffbU4SZcr | | Kryptonite | 82 | The Better Life | 2RTUTCvo6onsAnhe | 3 Doors Down |
| 2 | https://open.spotify.com | 2000 | 7iXF2W9vKmDoGAhl | | Forgot About Dre | 82 | 2001 | 6DPYiyq5kWVQS4R( | Dr. Dre |

Query Details

Query duration

Rows

Query ID   01af5a20-3200-e7(

PLAYLIST_URL
100% filled

YEAR
100% filled

TRACK_ID
100% filled

## -- COUNTING NO OF ENTRIES

## SELECT COUNT(*) FROM AD_SPOTIFY;

```
307     -- COUNTING NO OF ENTRIES
308   | SELECT COUNT(*) FROM AD_SPOTIFY;
309
310     -- DESCRIBING THE TABLE
```

↳ Results   ∿ Chart

	COUNT(*)
1	2,300

-- DESCRIBING THE TABLE

DESCRIBE TABLE AD_SPOTIFY;

```
310     -- DESCRIBING THE TABLE
311   | DESCRIBE TABLE AD_SPOTIFY;
312
```

↳ Results   ∿ Chart

	name	type	kind	null?	default	primary key	unique key	···	check	expression	co
1	PLAYLIST_URL	VARCHAR(100)	COLUMN	Y	null	N	N		null	null	nu
2	YEAR	VARCHAR(5)	COLUMN	Y	null	N	N		null	null	nu
3	TRACK_ID	VARCHAR(50)	COLUMN	Y	null	N	N		null	null	nu
4	TRACK_NAME	VARCHAR(250)	COLUMN	Y	null	N	N		null	null	nu
5	TRACK_POPULARITY	NUMBER(38,0)	COLUMN	Y	null	N	N		null	null	nu
6	ALBUM	VARCHAR(200)	COLUMN	Y	null	N	N		null	null	nu
7	ARTIST_ID	VARCHAR(100)	COLUMN	Y	null	N	N		null	null	nu
8	ARTIST_NAME	VARCHAR(100)	COLUMN	Y	null	N	N		null	null	nu
9	ARTIST_GENRES	VARCHAR(500)	COLUMN	Y	null	N	N		null	null	nu
10	ARTIST_POPULARITY	NUMBER(38,0)	COLUMN	Y	null	N	N		null	null	nu
11	DANCEABILITY	NUMBER(4,3)	COLUMN	Y	null	N	N		null	null	nu
12	ENERGY	NUMBER(4,3)	COLUMN	Y	null	N	N		null	null	nu
13	KEY	NUMBER(38,0)	COLUMN	Y	null	N	N		null	null	nu
14	LOUDNESS	NUMBER(5,3)	COLUMN	Y	null	N	N		null	null	nu
15	MODE	NUMBER(38,0)	COLUMN	Y	null	N	N		null	null	nu

-- COUNTING THE NO OF DISTINCT SONGS

SELECT COUNT(DISTINCT TRACK_ID) AS NO_OF_SONGS FROM AD_SPOTIFY;

```
313   -- COUNTING THE NO OF DISTINCT SONGS
314   SELECT COUNT(DISTINCT TRACK_ID) AS NO_OF_SONGS FROM AD_SPOTIFY;
315
```

Results ~ Chart

	NO_OF_SONGS
1	2,202

Query Details

Query duration

Rows

-- COUNT NO OF DISTINCT SONGS AND SONG NAME FOR DUBLICATE TRACK NAME

SELECT COUNT(DISTINCT TRACK_ID) AS NO_OF_DISTINCT_SONGS,COUNT(DISTINCT TRACK_NAME) AS NO_OF_DISTINCT_SONGS_NAME FROM AD_SPOTIFY;

```
316   -- COUNT NO OF DISTINCT SONGS AND SONG NAME FOR DUBLICATE TRACK NAME
317   SELECT COUNT(DISTINCT TRACK_ID) AS NO_OF_DISTINCT_SONGS,COUNT(DISTINCT TRACK_NAME ) AS NO_OF_DISTINCT_SONGS_NAME  FROM AD_SPOTIFY;
318
319   -- COUNTING NO OF DISTINCT ARTIST ID AND ARTIST NAME FOR DUPLICATE NAMES.
320   SELECT COUNT(DISTINCT ARTIST_ID) AS NO_OF_ARTIST_ID,COUNT(DISTINCT ARTIST_NAME) AS NO_OF_DISTINCT_ARTIST FROM AD_SPOTIFY;
```

Results ~ Chart   🔍

	NO_OF_DISTINCT_SONGS	NO_OF_DISTINCT_SONGS_NAME
1	2,202	2,121

Query Details

Query duration

-- COUNTING NO OF DISTINCT ARTIST ID AND ARTIST NAME FOR DUPLICATE NAMES.

SELECT COUNT(DISTINCT ARTIST_ID) AS NO_OF_ARTIST_ID,COUNT(DISTINCT ARTIST_NAME) AS NO_OF_DISTINCT_ARTIST FROM AD_SPOTIFY;

```
319   -- COUNTING NO OF DISTINCT ARTIST ID AND ARTIST NAME FOR DUPLICATE NAMES.
320   SELECT COUNT(DISTINCT ARTIST_ID) AS NO_OF_ARTIST_ID,COUNT(DISTINCT ARTIST_NAME) AS NO_OF_DISTINCT_ARTIST FROM AD_SPOTIFY;
321
322   -- 2.Number of songs on Spotify for each artist
```

Results ~ Chart

	NO_OF_ARTIST_ID	NO_OF_DISTINCT_ARTIST
1	891	891

-- 2.Number of songs on Spotify for each artist

SELECT ARTIST_ID,ARTIST_NAME, COUNT(TRACK_ID) AS NO_OF_SONGS FROM AD_SPOTIFY

GROUP BY 1,2

ORDER BY 3 DESC;

```
322     -- 2.Number of songs on Spotify for each artist
323     SELECT ARTIST_ID,ARTIST_NAME, COUNT(TRACK_ID) AS NO_OF_SONGS FROM AD_SPOTIFY
324     GROUP BY 1,2
325     ORDER BY 3 DESC;
326
```

↳ Results   ∿ Chart

	ARTIST_ID	ARTIST_NAME	NO_OF_SONGS
1	3TVXtAsR1Inumwj47	Drake	32
2	06HL4z0CvFAxyc27(	Taylor Swift	31
3	5pKCCKE2ajJHZ9KA	Rihanna	27
4	66CXWjxzNUsdJxJ2.	Ariana Grande	22
5	6vWDO969PvNqNYH	BeyoncÃ©	22
6	1uNFoZAHBGtllmzzn	Justin Bieber	21
7	7CajNmpbOovFoOoa	Calvin Harris	21
8	1KCSPY1gllKqW2Tot	P!nk	20
9	6eUKZXaKkcviH0Ku9	Ed Sheeran	19
10	4gzpq5DPGxSnKTe4	Coldplay	18
11	5K4W6rqBFWDnAN6	Kanye West	18
12	7dGJo4pcD2V6oG8k	Eminem	18
13	6jJ0s89eD6GaHleKK	Katy Perry	17
14	1yxSLGMDHlW21z4\	Black Eyed Peas	16
15	7bXgB6jMjp9ATFy66	Chris Brown	16

-- 3. Top 10 songs based on popularity

SELECT TRACK_ID,TRACK_NAME,TRACK_POPULARITY AS POPULARITY --

FROM AD_SPOTIFY

GROUP BY 1,2,3

ORDER BY 3 DESC

LIMIT 10;

```
327     -- 3. Top 10 songs based on popularity
328    │ SELECT TRACK_ID,TRACK_NAME,TRACK_POPULARITY AS POPULARITY --
329    │ FROM AD_SPOTIFY
330    │ GROUP BY 1,2,3
331    │ ORDER BY 3 DESC
332    │ LIMIT 10;
```

↳ **Results**   ∿ Chart

	TRACK_ID	TRACK_NAME	POPULARITY
1	1BxfuPKGuaTgP7aM(	Cruel Summer	100
2	0V3wPSX9ygBnCm8(	Anti-Hero	93
3	4uUG5RXrOk84mYEfl	I'm Good (Blue)	93
4	3hUxzQpSfdDqwM3Z	august	93
5	7MXVkk9YMctZqd1S	Starboy	92
6	4h9wh7iOZ0GGn8QV	I Ain't Worried	92
7	0VjljW4GlUZAMYd2v)	Blinding Lights	92
8	0WtM2NBVQNNJLh6	Calm Down (with Se	92
9	3JvKfv6T31zO0ini8iN	Another Love	91
10	3AJwUDP919kvQ9Q(	Yellow	91

SELECT * FROM AD_SPOTIFY

ORDER BY TEMPO DESC

LIMIT 2;

-- 4 Total number of songs on spotify based on year

SELECT YEAR,COUNT(DISTINCT TRACK_ID) AS NO_OF_TRACKS

FROM AD_SPOTIFY

GROUP BY 1

ORDER BY 1;

```
339     -- 4 Total number of songs on spotify based on year
340     SELECT YEAR,COUNT(DISTINCT TRACK_ID) AS NO_OF_TRACKS
341     FROM AD_SPOTIFY
342     GROUP BY 1
343     ORDER BY 1;
```

↳ **Results**   ∿ Chart

	YEAR	NO_OF_TRACKS
1	2000	100
2	2001	100
3	2002	100
4	2003	100
5	2004	100
6	2005	100
7	2006	100
8	2007	100
9	2008	100
10	2009	100
11	2010	100
12	2011	100
13	2012	100
14	2013	100
15	2014	100

-- 5.Top song for each year (2000-2022) based on popularity

SELECT DISTINCT YEAR,MAX_BY(TRACK_NAME,TRACK_POPULARITY) AS POPULAR_SONG_OF_THE_YEAR,MAX(TRACK_POPULARITY) AS POPULARITY

FROM AD_SPOTIFY

GROUP BY 1

ORDER BY 1;

```
345    -- 5.Top song for each year (2000-2022) based on popularity
346
347    SELECT DISTINCT YEAR,MAX_BY(TRACK_NAME,TRACK_POPULARITY) AS POPULAR_SONG_OF_THE_YEAR,MAX(TRACK_POPULARITY) AS POPULARITY
348    FROM AD_SPOTIFY
349    GROUP BY 1
350    ORDER BY 1;
```

↳ Results   ∿ Chart

	YEAR	POPULAR_SONG_OF_THE_YEAR	POPULARITY
1	2000	Yellow	91
2	2001	Stan	84
3	2002	Without Me	89
4	2003	Seven Nation Army	86
5	2004	Mr. Brightside	87
6	2005	Mockingbird	90
7	2006	Hips Don't Lie (feat. Wyclef Jean)	86
8	2007	Umbrella	86
9	2008	Viva La Vida	88
10	2009	Heartless	88
11	2010	Just the Way You Are	86
12	2011	Sure Thing	89
13	2012	Locked out of Heaven	90
14	2013	Sweater Weather	91
15	2014	Night Changes	89

-- 6. Analysis based on Tempo : tempo > 121.08 -> 'Above Average Tempo' tempo = 121.08 -> 'Average Tempo' tempo < 121.08 -> 'Below Average Tempo'

SELECT TRACK_ID,TRACK_NAME,TEMPO,

CASE WHEN TEMPO > 121.08 THEN 'ABOVE AVERAGE TEMPO'

   WHEN TEMPO = 121.08 THEN 'AVERAGE TEMPO'

   WHEN TEMPO < 121.08 THEN 'BELOW AVERAGE TEMPO'

END AS TEMPO_ANALYSIS

FROM AD_SPOTIFY;

```
352    -- 6. Analysis based on Tempo : tempo > 121.08 -> 'Above Average Tempo' tempo = 121.08 -> 'Average Tempo' tempo < 121.08 -> 'Below Average Temp
353
354    SELECT TRACK_ID,TRACK_NAME,TEMPO,
355    CASE WHEN TEMPO > 121.08 THEN 'ABOVE AVERAGE TEMPO'
356        WHEN TEMPO = 121.08 THEN 'AVERAGE TEMPO'
357        WHEN TEMPO < 121.08 THEN 'BELOW AVERAGE TEMPO'
358    END AS TEMPO_ANALYSIS
359
360    FROM AD_SPOTIFY;
361
```

→ Results   ~ Chart

TRACK_ID	TRACK_NAME	··· TEMPO	TEMPO_ANALYSIS
3AJwUDP919kvQ9QcozQPxg	Yellow	173.372	ABOVE AVERAGE TEMPO
2m1hi0nfMR9vdGC8UcrnwU	All The Small Things	148.726	ABOVE AVERAGE TEMPO
3y4LxiYMgDl4RethdzpmNe	Breathe	136.859	ABOVE AVERAGE TEMPO
60a0Rd6pjrkxjPbaKzXjfq	In the End	105.143	BELOW AVERAGE TEMPO
62bOmKYxYg7dhrC6gH9vFn	Bye Bye Bye	172.638	ABOVE AVERAGE TEMPO
5Mmk2ii6laakqfeCT7OnVD	Thong Song	121.549	ABOVE AVERAGE TEMPO
3yfqSUWxFvZELEM4PmlwlR	The Real Slim Shady	104.504	BELOW AVERAGE TEMPO
7oQSevUCbYs4QawXTHQVV1	Rock DJ	103.032	BELOW AVERAGE TEMPO
7H6ev70Weq6DdpZyyTmUXk	Say My Name	138.009	ABOVE AVERAGE TEMPO
64BbK9SFKH2jk86U3dGj2P	Otherside	123.229	ABOVE AVERAGE TEMPO
6ZOBP3NvffbU4SZcrnt1k6	Kryptonite	99.009	BELOW AVERAGE TEMPO

Query Details

Query duration

Rows
Query ID   01af5a66-320

TRACK_ID
100% filled

TRACK_NAME
100% filled

-- COUNTING TRACK_ID AMONGST TEMPO_RANGE

SELECT COUNT(*) AS NO_OF_SONGS,TEMPO_ANALYSIS

FROM (SELECT TRACK_ID,TRACK_NAME,TEMPO,

CASE WHEN TEMPO > 121.08 THEN 'ABOVE AVERAGE TEMPO'

    WHEN TEMPO = 121.08 THEN 'AVERAGE TEMPO'

    WHEN TEMPO < 121.08 THEN 'BELOW AVERAGE TEMPO'

END AS TEMPO_ANALYSIS

FROM AD_SPOTIFY)

GROUP BY 2;

```
362    -- COUNTING TRACK_ID AMONGST TEMPO_RANGE
363    SELECT COUNT(*) AS NO_OF_SONGS,TEMPO_ANALYSIS
364    FROM (SELECT TRACK_ID,TRACK_NAME,TEMPO,
365    CASE WHEN TEMPO > 121.08 THEN 'ABOVE AVERAGE TEMPO'
366        WHEN TEMPO = 121.08 THEN 'AVERAGE TEMPO'
367        WHEN TEMPO < 121.08 THEN 'BELOW AVERAGE TEMPO'
368    END AS TEMPO_ANALYSIS
369    FROM AD_SPOTIFY)
370    GROUP BY 2;
371
```

↳ Results   ~ Chart

	NO_OF_SONGS	TEMPO_ANALYSIS
1	1,095	ABOVE AVERAGE TEMPO
2	1,204	BELOW AVERAGE TEMPO
3	1	null

--7. Songs with Highest Tempo

SELECT TRACK_ID ,TRACK_NAME,TEMPO

FROM AD_SPOTIFY

WHERE TEMPO IS NOT NULL

ORDER BY TEMPO DESC

LIMIT 1;

```
372     --7. Songs with Highest Tempo
373     SELECT TRACK_ID ,TRACK_NAME,TEMPO
374     FROM AD_SPOTIFY
375     WHERE TEMPO IS NOT NULL
376     ORDER BY TEMPO DESC
377     LIMIT 1;
378
379     /* 8. Number of Songs for different Tempo Range : trac
        100.001 AND 120.00 Dance_Music -> tempo BETWEEN 120.00
```

↳ Results   ∿ Chart

	TRACK_ID	TRACK_NAME	TEMPO
1	3BxWKCI06eQ5Od8TY2JBeA	Buttons	210.857

/* 8. Number of Songs for different Tempo Range : track_name, energy Modern_Music -> tempo BETWEEN 60.00 AND 100.00 Classical_Music -> tempo BETWEEN 100.001 AND 120.00 Dance_Music -> tempo BETWEEN 120.001 AND 150.01 HighTempo_Music -> tempo > 150.01 */

SELECT track_name,energy, CASE WHEN TEMPO BETWEEN 60.00 AND 100.00 THEN 'MODERN_MUSIC'

      WHEN TEMPO BETWEEN 100.01 AND 120.00 THEN 'CLASSICAL_MUSIC'

      WHEN TEMPO BETWEEN 120.001 AND 150.00 THEN 'DANCE_MUSIC'

      WHEN TEMPO >150.01 THEN 'HIGH_TEMPO_MUSIC'

      ELSE 'TEMPO_NOT_IN_RANGE'

    END AS TEMPO_RANGE

FROM AD_SPOTIFY

group by 1,2,3;

```
379     /* 8. Number of Songs for different Tempo Range : track_name, energy Modern_Music -> tempo BETWEEN 60.00 AND
        100.001 AND 120.00 Dance_Music -> tempo BETWEEN 120.001 AND 150.01 HighTempo_Music -> tempo > 150.01 */
380
381     SELECT track_name,energy, CASE WHEN TEMPO BETWEEN 60.00 AND 100.00 THEN 'MODERN_MUSIC'
382              WHEN TEMPO BETWEEN 100.01 AND 120.00 THEN 'CLASSICAL_MUSIC'
383              WHEN TEMPO BETWEEN 120.001 AND 150.00 THEN 'DANCE_MUSIC'
384              WHEN TEMPO >150.01 THEN 'HIGH_TEMPO_MUSIC'
385              ELSE 'TEMPO_NOT_IN_RANGE'
386           END AS TEMPO_RANGE
387     FROM AD_SPOTIFY
388     group by 1,2,3;
389
```

↳ Results   ∿ Chart

	TRACK_NAME	ENERGY	TEMPO_RANGE
1	Yellow	0.661	HIGH_TEMPO_MUSIC
2	All The Small Things	0.897	DANCE_MUSIC
3	In the End	0.864	CLASSICAL_MUSIC
4	Bye Bye Bye	0.926	HIGH_TEMPO_MUSIC
5	Thong Song	0.888	DANCE_MUSIC
6	The Real Slim Shady	0.661	CLASSICAL_MUSIC
7	Rock DJ	0.762	CLASSICAL_MUSIC
8	Say My Name	0.678	DANCE_MUSIC
9	Kryptonite	0.865	MODERN_MUSIC
10	Forgot About Dre	0.740	DANCE_MUSIC
11	Lady - Hear Me Tonight	0.808	DANCE_MUSIC

-- NO OF SONGS IN EACH TEMPO RANGE

SELECT TEMPO_RANGE,COUNT(TRACK_ID) AS NO_OF_SONGS

FROM (SELECT *,CASE WHEN TEMPO BETWEEN 60.00 AND 100.00 THEN 'MODERN_MUSIC'

        WHEN TEMPO BETWEEN 100.01 AND 120.00 THEN 'CLASSICAL_MUSIC'

        WHEN TEMPO BETWEEN 120.001 AND 150.00 THEN 'DANCE_MUSIC'

        WHEN TEMPO >150.01 THEN 'HIGH_TEMPO_MUSIC'

        ELSE 'TEMPO_NOT_IN_RANGE'

    END AS TEMPO_RANGE

FROM AD_SPOTIFY)

GROUP BY 1

ORDER BY 2 DESC;

```
391      -- NO OF SONGS IN EACH TEMPO RANGE
392      SELECT TEMPO_RANGE,COUNT(TRACK_ID) AS NO_OF_SONGS
393      FROM (SELECT *,CASE WHEN TEMPO BETWEEN 60.00 AND 100.00 THEN 'MODERN_MUSIC'
394                   WHEN TEMPO BETWEEN 100.01 AND 120.00 THEN 'CLASSICAL_MUSIC'
395                   WHEN TEMPO BETWEEN 120.001 AND 150.00 THEN 'DANCE_MUSIC'
396                   WHEN TEMPO >150.01 THEN 'HIGH_TEMPO_MUSIC'
397                   ELSE 'TEMPO_NOT_IN_RANGE'
398              END AS TEMPO_RANGE
399      FROM AD_SPOTIFY)
400      GROUP BY 1
401      ORDER BY 2 DESC;
402
```

↳ Results   ∿ Chart

	TEMPO_RANGE	NO_OF_SONGS
1	DANCE_MUSIC	820
2	MODERN_MUSIC	636
3	CLASSICAL_MUSIC	509
4	HIGH_TEMPO_MUSIC	325
5	TEMPO_NOT_IN_RANGE	10

/*9. Energy Analysis : TOP 10 track_name, danceability, track_popularity energy > 0.64 -> 'Above Average Energy energy = 0.64 -> 'Average Energy' energy < 0.64 -> 'Below Average Energy' energy BETWEEN 0.1 AND 0.3 -> 'Calm Music'*/

SELECT TRACK_NAME,DANCEABILITY,TRACK_POPULARITY,ENERGY,

CASE WHEN ENERGY > 0.64 THEN 'ABOVE AVERAGE ENERGY'

   WHEN ENERGY = 0.64 THEN 'AVERAGE ENERGY'

   WHEN ENERGY < 0.64 THEN 'BELOW AVERAGE ENERGY'

END AS TYPE_OF_ENERGY,

CASE WHEN ENERGY BETWEEN 0.1 AND 0.3 THEN 'CALM MUSIC'

   WHEN ENERGY BETWEEN 0.301 AND 0.6 THEN 'MODERATE MUSIC'

   WHEN ENERGY > 0.6 THEN 'ENERGETIC MUSIC'

   ELSE 'NOT IN RANGE'

END AS TYPE_OF_MUSIC

FROM AD_SPOTIFY

WHERE ENERGY IS NOT NULL

GROUP BY 1,2,3,4,5,6

ORDER BY 4 DESC

LIMIT 10;

```
403    /*9. Energy Analysis : TOP 10 track_name, danceability, track_popularity energy > 0.64 -> 'Above Average Energy energy = 0.64 -> 'Average Energy' energ
       < 0.64 -> 'Below Average Energy' energy BETWEEN 0.1 AND 0.3 -> 'Calm Music'*/
404
405    SELECT TRACK_NAME,DANCEABILITY,TRACK_POPULARITY,ENERGY,
406    CASE WHEN ENERGY > 0.64 THEN 'ABOVE AVERAGE ENERGY'
407         WHEN ENERGY = 0.64 THEN 'AVERAGE ENERGY'
408         WHEN ENERGY < 0.64 THEN 'BELOW AVERAGE ENERGY'
409    END AS TYPE_OF_ENERGY,
410    CASE WHEN ENERGY BETWEEN 0.1 AND 0.3 THEN 'CALM MUSIC'
411         WHEN ENERGY BETWEEN 0.301 AND 0.6 THEN 'MODERATE MUSIC'
412         WHEN ENERGY > 0.6 THEN 'ENERGETIC MUSIC'
413         ELSE 'NOT IN RANGE'
414    END AS TYPE_OF_MUSIC
415    FROM AD_SPOTIFY
416    WHERE ENERGY IS NOT NULL
417    GROUP BY 1,2,3,4,5,6
418    ORDER BY 4 DESC
419    LIMIT 10;
```

↳ Results   ∿ Chart   Q ▯▮ ⬇ ⫿

	TRACK_NAME	DANCEABILITY	TRACK_POPULARITY	ENERGY	TYPE_OF_ENERGY ⋯	TYPE_O⟨
1	Come With Me - Radio Edit	0.739	62	0.999	ABOVE AVERAGE ENERGY	ENERGE
2	When You Were Young	0.467	80	0.988	ABOVE AVERAGE ENERGY	ENERGE
3	American Idiot	0.380	82	0.988	ABOVE AVERAGE ENERGY	ENERGE
4	All I Ever Wanted - Radio Edit	0.645	68	0.984	ABOVE AVERAGE ENERGY	ENERGE
5	Say Hey (I Love You) (feat. Cherine Tanya Anderson)	0.738	67	0.983	ABOVE AVERAGE ENERGY	ENERGE
6	Don't Call Me Baby	0.808	58	0.982	ABOVE AVERAGE ENERGY	ENERGE
7	Something	0.644	69	0.981	ABOVE AVERAGE ENERGY	ENERGE

Query Details ⋯

Query duration   38ms

Rows   10

Query ID   01af5a69-3200-e7c4-0...

TRACK_NAME   A

100% filled

-- 10. Number of Songs for different energy ranges(above)

SELECT TYPE_OF_ENERGY,COUNT(TRACK_ID) AS NO_OF_SONGS

FROM (SELECT *,

CASE WHEN ENERGY > 0.64 THEN 'ABOVE AVERAGE ENERGY'

    WHEN ENERGY = 0.64 THEN 'AVERAGE ENERGY'

    WHEN ENERGY < 0.64 THEN 'BELOW AVERAGE ENERGY'

END AS TYPE_OF_ENERGY

FROM AD_SPOTIFY

)

GROUP BY 1

ORDER BY 2 DESC;

```
421     -- 10. Number of Songs for different energy ranges(above)
422
423     SELECT TYPE_OF_ENERGY,COUNT(TRACK_ID) AS NO_OF_SONGS
424     FROM (SELECT *,
425     CASE WHEN ENERGY > 0.64 THEN 'ABOVE AVERAGE ENERGY'
426          WHEN ENERGY = 0.64 THEN 'AVERAGE ENERGY'
427          WHEN ENERGY < 0.64 THEN 'BELOW AVERAGE ENERGY'
428     END AS TYPE_OF_ENERGY
429     FROM AD_SPOTIFY
430     )
431     GROUP BY 1
432     ORDER BY 2 DESC;
433
434     -- 10. Number of Songs for different energy ranges(above)
```

↳ **Results**   ∿ **Chart**

	TYPE_OF_ENERGY	NO_OF_SONGS
1	ABOVE AVERAGE ENERGY	1,502
2	BELOW AVERAGE ENERGY	796
3	null	1
4	AVERAGE ENERGY	1

-- 10. Number of Songs for different energy ranges(above)

SELECT TYPE_OF_MUSIC,COUNT(TRACK_ID)

FROM (SELECT *,

CASE WHEN ENERGY BETWEEN 0.1 AND 0.3 THEN 'CALM MUSIC'

    WHEN ENERGY BETWEEN 0.301 AND 0.6 THEN 'MODERATE MUSIC'

    WHEN ENERGY > 0.6 THEN 'ENERGETIC MUSIC'

    ELSE 'NOT IN RANGE'

END AS TYPE_OF_MUSIC

FROM AD_SPOTIFY)

GROUP BY 1

ORDER BY 1;

```
434     -- 10. Number of Songs for different energy ranges(above)
435   | SELECT TYPE_OF_MUSIC,COUNT(TRACK_ID)
436   | FROM (SELECT *,
437   | CASE WHEN ENERGY BETWEEN 0.1 AND 0.3 THEN 'CALM MUSIC'
438   |     WHEN ENERGY BETWEEN 0.301 AND 0.6 THEN 'MODERATE MUSIC'
439   |     WHEN ENERGY > 0.6 THEN 'ENERGETIC MUSIC'
440   |     ELSE 'NOT IN RANGE'
441   | END AS TYPE_OF_MUSIC
442   | FROM AD_SPOTIFY)
443   | GROUP BY 1
444   | ORDER BY 1;
445
```

↳ Results   ∿ Chart

	TYPE_OF_MUSIC	COUNT(TRACK_ID)
1	CALM MUSIC	40
2	ENERGETIC MUSIC	1,666
3	MODERATE MUSIC	590
4	NOT IN RANGE	4

/*11. Danceability Analysis : Top 20 track_name, danceability danceability BETWEEN 0.69 AND 0.79 -> 'Low Danceability' (danceability BETWEEN 0.49 AND 0.68) OR (danceability BETWEEN 0.79 AND 0.89) -> 'Moderate Danceability' (danceability BETWEEN 0.39 AND 0.49) OR (danceability BETWEEN 0.89 AND 0.99) -> 'High Danceability' danceability < 0.39 OR danceability > 0.99 -> 'Cant Dance on this one'*/

SELECT TRACK_NAME,DANCEABILITY,

CASE WHEN DANCEABILITY BETWEEN 0.69 AND 0.79 THEN 'LOW DANCEABILITY'

    WHEN DANCEABILITY BETWEEN 0.49 AND 0.68 OR DANCEABILITY BETWEEN 0.79 AND 0.89 THEN 'MODERATE DANCEABILITY'

    WHEN DANCEABILITY BETWEEN 0.39 AND 0.49 OR DANCEABILITY BETWEEN 0.89 AND 0.99 THEN 'HIGH DANCEABILITY'

    WHEN DANCEABILITY < 0.39 OR DANCEABILITY > 0.99 THEN 'CANT DANCE ON THIS ONE'

    ELSE 'DANCEABILITY OUT OF RANGE'

END AS DANCEABILITY_TYPE

FROM AD_SPOTIFY

WHERE DANCEABILITY IS NOT NULL

GROUP BY 1,2

ORDER BY 2 DESC

LIMIT 20;

```
446    /*11. Danceability Analysis : Top 20 track_name, danceability danceability BETWEEN 0.69 AND 0.79 -> 'Low Danceability' (danceability BETWEEN 0.49 AND
       0.68) OR (danceability BETWEEN 0.79 AND 0.89) -> 'Moderate Danceability' (danceability BETWEEN 0.39 AND 0.49) OR (danceability BETWEEN 0.89 AND 0.99) ->
       'High Danceability' danceability < 0.39 OR danceability > 0.99 -> 'Cant Dance on this one'*/
447
448    SELECT TRACK_NAME,DANCEABILITY,
449    CASE WHEN DANCEABILITY BETWEEN 0.69 AND 0.79 THEN 'LOW DANCEABILITY'
450        WHEN DANCEABILITY BETWEEN 0.49 AND 0.68 OR DANCEABILITY BETWEEN 0.79 AND 0.89 THEN 'MODERATE DANCEABILITY'
451        WHEN DANCEABILITY BETWEEN 0.39 AND 0.49 OR DANCEABILITY BETWEEN 0.89 AND 0.99 THEN 'HIGH DANCEABILITY'
452        WHEN DANCEABILITY < 0.39 OR  DANCEABILITY > 0.99 THEN 'CANT DANCE ON THIS ONE'
453        ELSE 'DANCEABILITY OUT OF RANGE'
454    END AS DANCEABILITY_TYPE
455    FROM AD_SPOTIFY
456    WHERE DANCEABILITY IS NOT NULL
457    GROUP BY 1,2
458    ORDER BY 2 DESC
459    LIMIT 20;
460
```

↳ Results   ∿ Chart   🔍 ▥ ↓ ▭

	TRACK_NAME	DANCEABILITY	DANCEABILITY_TYPE
1	Give It To Me	0.975	HIGH DANCEABILITY
2	SexyBack (feat. Timbaland)	0.967	HIGH DANCEABILITY
3	GIRL LIKE ME	0.965	HIGH DANCEABILITY
4	Anaconda	0.964	HIGH DANCEABILITY
5	Get Up (feat. Chamillionaire)	0.964	HIGH DANCEABILITY
6	Yes Indeed	0.963	HIGH DANCEABILITY
7	Shake That	0.963	HIGH DANCEABILITY

Query Details   ...

Query duration   38ms
▬▬▬▬
Rows   20
Query ID   01af5a6a-3200-e7c4-0...

TRACK_NAME   A
100% filled
▬▬▬▬▬▬▬▬▬▬▬

-- 12. Number of Songs for different danceability ranges(above)

SELECT DANCEABILITY_TYPE,COUNT(*)

FROM (SELECT TRACK_NAME,DANCEABILITY,

CASE WHEN DANCEABILITY BETWEEN 0.69 AND 0.79 THEN 'LOW DANCEABILITY'

    WHEN DANCEABILITY BETWEEN 0.49 AND 0.68 OR DANCEABILITY BETWEEN 0.79 AND 0.89 THEN 'MODERATE DANCEABILITY'

    WHEN DANCEABILITY BETWEEN 0.39 AND 0.49 OR DANCEABILITY BETWEEN 0.89 AND 0.99 THEN 'HIGH DANCEABILITY'

    WHEN DANCEABILITY < 0.39 OR DANCEABILITY > 0.99 THEN 'CANT DANCE ON THIS ONE'

    ELSE 'DANCEABILITY OUT OF RANGE'

END AS DANCEABILITY_TYPE

FROM AD_SPOTIFY)

GROUP BY 1

ORDER BY 2 DESC;

```
462     -- 12. Number of Songs for different danceability ranges(above)
463     SELECT DANCEABILITY_TYPE,COUNT(*)
464     FROM (SELECT TRACK_NAME,DANCEABILITY,
465     CASE WHEN DANCEABILITY BETWEEN 0.69 AND 0.79 THEN 'LOW DANCEABILITY'
466         WHEN DANCEABILITY BETWEEN 0.49 AND 0.68 OR DANCEABILITY BETWEEN 0.79 AND 0.89 THEN 'MODERATE DANCEABILITY'
467         WHEN DANCEABILITY BETWEEN 0.39 AND 0.49 OR DANCEABILITY BETWEEN 0.89 AND 0.99 THEN 'HIGH DANCEABILITY'
468         WHEN DANCEABILITY < 0.39 OR  DANCEABILITY > 0.99 THEN 'CANT DANCE ON THIS ONE'
469         ELSE 'DANCEABILITY OUT OF RANGE'
470     END AS DANCEABILITY_TYPE
471     FROM AD_SPOTIFY)
472     GROUP BY 1
473     ORDER BY 2 DESC;
474
475
```

↳ Results   ∿ Chart

	DANCEABILITY_TYPE	COUNT(*)
1	MODERATE DANCEABILITY	1,267
2	LOW DANCEABILITY	582
3	HIGH DANCEABILITY	289
4	CANT DANCE ON THIS ONE	91
5	DANCEABILITY OUT OF RANGE	71

/*13. Loudness Analysis : Top 20 track_name, loudness, loudness BETWEEN -23.00 AND -15.00 ->'Low Loudness' loudness BETWEEN -14.99 AND -6.00 -> 'Below Average Loudness' loudness BETWEEN -5.99 AND -2.90 -> 'Above Average Loudness' loudness BETWEEN -2.89 AND -1.00 -> 'Peak Loudness'*/

SELECT TRACK_NAME,LOUDNESS,

CASE WHEN LOUDNESS BETWEEN -23.00 AND -15.00 THEN 'LOW LOUDNESS'

   WHEN LOUDNESS BETWEEN -14.99 AND -6.00 THEN 'BELOW AVERAGE LOUDNESS'

   WHEN LOUDNESS BETWEEN -5.99 AND -2.90 THEN 'ABOVE AVERAGE LOUDNESS'

   WHEN LOUDNESS BETWEEN -2.89 AND -1.00 THEN 'PEAK LOUDNESS'

   ELSE 'LOUDNESS CANNOT BE DETERMINE'

END TYPE_OF_LOUDNESS

FROM AD_SPOTIFY

WHERE LOUDNESS IS NOT NULL

ORDER BY 2 DESC

LIMIT 20;

```
476    /*13. Loudness Analysis : Top 20 track_name, loudness, loudness BETWEEN -23.00 AND -15.00 ->'Low Loudness' loudness BETWEEN -14.99 AND -6.00 -> 'Below
       Average Loudness' loudness BETWEEN -5.99 AND -2.90 -> 'Above Average Loudness' loudness BETWEEN -2.89 AND -1.00 -> 'Peak Loudness'*/
477
478    SELECT TRACK_NAME,LOUDNESS,
479    CASE WHEN LOUDNESS BETWEEN -23.00 AND -15.00 THEN 'LOW LOUDNESS'
480        WHEN LOUDNESS BETWEEN -14.99 AND -6.00 THEN 'BELOW AVERAGE LOUDNESS'
481        WHEN LOUDNESS BETWEEN -5.99 AND -2.90 THEN 'ABOVE AVERAGE LOUDNESS'
482        WHEN LOUDNESS BETWEEN -2.89 AND -1.00 THEN 'PEAK LOUDNESS'
483        ELSE 'LOUDNESS CANNOT BE DETERMINE'
484    END TYPE_OF_LOUDNESS
485    FROM AD_SPOTIFY
486    WHERE LOUDNESS IS NOT NULL
487    ORDER BY 2 DESC
488    LIMIT 20;
489
```

↳ Results **∼ Chart**   🔍 ▥ ↓ ▥

	TRACK_NAME	LOUDNESS	TYPE_OF_LOUDNESS
1	In For The Kill	-0.276	LOUDNESS CANNOT BE DETERMINE
2	Gold Dust - Radio Edit	-0.740	LOUDNESS CANNOT BE DETERMINE
3	Louder (feat. Sian Evans)	-1.089	PEAK LOUDNESS
4	Not Afraid	-1.190	PEAK LOUDNESS
5	We Made You	-1.203	PEAK LOUDNESS
6	Forgot About Dre	-1.299	PEAK LOUDNESS
7	Fighter	-1.357	PEAK LOUDNESS

Query Details   ...

Query duration   49ms

Rows   20
Query ID   01af5a6c-3200-e80f-0...

TRACK_NAME   A
100% filled

-- 14. Number of Songs for different loudness ranges(above)

SELECT TYPE_OF_LOUDNESS,COUNT(*)

FROM (SELECT *,

CASE WHEN LOUDNESS BETWEEN -23.00 AND -15.00 THEN 'LOW LOUDNESS'

    WHEN LOUDNESS BETWEEN -14.99 AND -6.00 THEN 'BELOW AVERAGE LOUDNESS'

    WHEN LOUDNESS BETWEEN -5.99 AND -2.90 THEN 'ABOVE AVERAGE LOUDNESS'

    WHEN LOUDNESS BETWEEN -2.89 AND -1.00 THEN 'PEAK LOUDNESS'

    ELSE 'LOUDNESS CANNOT BE DETERMINE'

END TYPE_OF_LOUDNESS

FROM AD_SPOTIFY)

GROUP BY 1;

```
491     -- 14. Number of Songs for different Loudness ranges(above)
492     SELECT TYPE_OF_LOUDNESS,COUNT(*)
493     FROM (SELECT *,
494     CASE WHEN LOUDNESS BETWEEN -23.00 AND -15.00 THEN 'LOW LOUDNESS'
495         WHEN LOUDNESS BETWEEN -14.99 AND -6.00 THEN 'BELOW AVERAGE LOUDNESS'
496         WHEN LOUDNESS BETWEEN -5.99 AND -2.90 THEN 'ABOVE AVERAGE LOUDNESS'
497         WHEN LOUDNESS BETWEEN -2.89 AND -1.00 THEN 'PEAK LOUDNESS'
498         ELSE 'LOUDNESS CANNOT BE DETERMINE'
499     END TYPE_OF_LOUDNESS
500     FROM AD_SPOTIFY)
501     GROUP BY 1;
502
```

↳ Results   ∿ Chart

	TYPE_OF_LOUDNESS	COUNT(*)
1	BELOW AVERAGE LOUDNESS	907
2	ABOVE AVERAGE LOUDNESS	1,300
3	PEAK LOUDNESS	84
4	LOW LOUDNESS	6
5	LOUDNESS CANNOT BE DETERMINE	3

/*15. Valence Analysis : Top 20 track_name, valence, track_popularity, valence > 0.535 -> Above Avg Valence valence = 0.535 -> Avg Valence valence < 0.535 -> Below Average'*/

SELECT TRACK_NAME,VALENCE,TRACK_POPULARITY,

CASE WHEN VALENCE > 0.535 THEN 'ABOVE AVG VALENCE'

    WHEN VALENCE = 0.535 THEN 'AVG VALENCE'

    WHEN VALENCE < 0.535 THEN 'BELOW AVERAGE'

    ELSE 'RANGE NOT FOUND'

END AS VALENCE_RANGE

FROM AD_SPOTIFY

WHERE VALENCE IS NOT NULL

ORDER BY 1

LIMIT 20;

```
503    /*15. Valence Analysis : Top 20 track_name, valence, track_popularity, valence > 0.535 -> Above Avg Valence valence = 0.535 -> Avg Valence valence <
       0.535 -> Below Average'*/
504    SELECT TRACK_NAME,VALENCE,TRACK_POPULARITY,
505    CASE WHEN VALENCE > 0.535 THEN 'ABOVE AVG VALENCE'
506         WHEN VALENCE = 0.535 THEN 'AVG VALENCE'
507         WHEN VALENCE < 0.535 THEN 'BELOW AVERAGE'
508         ELSE 'RANGE NOT FOUND'
509    END AS VALENCE_RANGE
510    FROM AD_SPOTIFY
511    WHERE VALENCE IS NOT NULL
512    ORDER BY 1
513    LIMIT 20;
514
515    -- 16. Number of Songs for different valence ranges(above)
```

Results **Chart**

	TRACK_NAME	VALENCE	TRACK_POPULARITY	VALENCE_RANGE
1	"Earned It (Fifty Shades Of Grey) - From The ""Fifty Shades Of Grey"" Soundtrack"	0.4260	77	BELOW AVERAGE
2	"Happy - From ""Despicable Me 2"""	0.9620	83	ABOVE AVG VALENCE
3	"Just Like Fire (From the Original Motion Picture ""Alice Through The Looking Glass""	0.5230	71	BELOW AVERAGE
4	"Let It Go - From ""Frozen""/Soundtrack Version"	0.3710	77	BELOW AVERAGE
5	"Love Me Like You Do - From ""Fifty Shades Of Grey"""	0.2750	80	BELOW AVERAGE
6	"Moves Like Jagger - Studio Recording From ""The Voice"" Performance"	0.6200	74	ABOVE AVG VALENCE
7	"Slow Down - 12"" Version"	0.6260	68	ABOVE AVG VALENCE

Query Details ...

Query duration   56ms

Rows   20

Query ID   01af5a70-3200-e7c4-0...

TRACK_NAME   A

100% filled

-- 16. Number of Songs for different valence ranges(above)

SELECT VALENCE_RANGE,COUNT(*)

FROM (SELECT TRACK_NAME,VALENCE,TRACK_POPULARITY,

CASE WHEN VALENCE > 0.535 THEN 'ABOVE AVG VALENCE'

　　　WHEN VALENCE = 0.535 THEN 'AVG VALENCE'

　　　WHEN VALENCE < 0.535 THEN 'BELOW AVERAGE'

　　　ELSE 'RANGE NOT FOUND'

END AS VALENCE_RANGE

FROM AD_SPOTIFY)

GROUP BY 1

ORDER BY 2 DESC;

```
515    -- 16. Number of Songs for different valence ranges(above)
516
517    SELECT VALENCE_RANGE,COUNT(*)
518    FROM (SELECT TRACK_NAME,VALENCE,TRACK_POPULARITY,
519    CASE WHEN VALENCE > 0.535 THEN 'ABOVE AVG VALENCE'
520         WHEN VALENCE = 0.535 THEN 'AVG VALENCE'
521         WHEN VALENCE < 0.535 THEN 'BELOW AVERAGE'
522         ELSE 'RANGE NOT FOUND'
523    END AS VALENCE_RANGE
524    FROM AD_SPOTIFY)
525    GROUP BY 1
526    ORDER BY 2 DESC;
527
```

Results **Chart**

	VALENCE_RANGE	COUNT(*)
1	ABOVE AVG VALENCE	1,166
2	BELOW AVERAGE	1,130
3	AVG VALENCE	3
4	RANGE NOT FOUND	1

Query Details ...

Query duration   37ms

Rows   4

Query ID   01af5a78-3200-e80f-0...

VALENCE_RANGE   A

/* 17. Speechiness Analsis : Top 20 track_name, speechiness, tempo, speechiness > 0.081-> Above Avg Speechiness speechiness = 0.081-> Avg Speechiness speechiness < 0.081-> Below Speechiness */

SELECT TRACK_NAME,SPEECHINESS,TEMPO,

CASE WHEN SPEECHINESS > 0.081 THEN 'ABOVE AVG SPEECHINESS'

    WHEN SPEECHINESS = 0.081 THEN 'AVG SPEECHINESS'
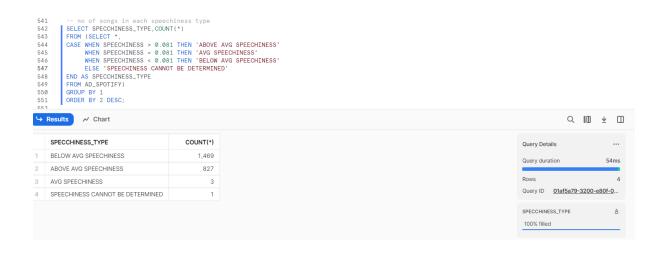
    WHEN SPEECHINESS < 0.081 THEN 'BELOW AVG SPEECHINESS'

    ELSE 'SPEECHINESS CANNOT BE DETERMINED'

END AS SPECCHINESS_TYPE

FROM AD_SPOTIFY

ORDER BY 1 DESC

LIMIT 20;

```
528    /* 17. Speechiness Analsis : Top 20 track_name, speechiness, tempo, speechiness > 0.081-> Above Avg Speechiness speechiness = 0.081-> Avg Speechiness
       speechiness < 0.081-> Below Speechiness */
529
530    SELECT TRACK_NAME,SPEECHINESS,TEMPO,
531    CASE WHEN SPEECHINESS > 0.081 THEN 'ABOVE AVG SPEECHINESS'
532        WHEN SPEECHINESS = 0.081 THEN 'AVG SPEECHINESS'
533        WHEN SPEECHINESS < 0.081 THEN 'BELOW AVG SPEECHINESS'
534        ELSE 'SPEECHINESS CANNOT BE DETERMINED'
535    END AS SPECCHINESS_TYPE
536    FROM AD_SPOTIFY
537    ORDER BY 1 DESC
538    LIMIT 20;
539
540
```

↳ Results   ∿ Chart

	TRACK_NAME	SPEECHINESS	TEMPO	SPECCHINESS_TYPE
1	you broke me first	0.0500	124.148	BELOW AVG SPEECHINESS
2	willow	0.1700	81.112	ABOVE AVG SPEECHINESS
3	when the party's over	0.0972	82.642	ABOVE AVG SPEECHINESS
4	we fell in love in october	0.0280	129.960	BELOW AVG SPEECHINESS
5	traitor	0.0338	100.607	BELOW AVG SPEECHINESS
6	traitor	0.0338	100.607	BELOW AVG SPEECHINESS
7	thank u next	0.0658	106.966	BELOW AVG SPEECHINESS

Query Details   ...

Query duration   43ms

Rows   20

Query ID   01af5a78-3200-e7c4-0...

TRACK_NAME	A
traitor	2
positions	2

-- no of songs in each speechiness type

SELECT SPECCHINESS_TYPE,COUNT(*)

FROM (SELECT *,

CASE WHEN SPEECHINESS > 0.081 THEN 'ABOVE AVG SPEECHINESS'

    WHEN SPEECHINESS = 0.081 THEN 'AVG SPEECHINESS'

    WHEN SPEECHINESS < 0.081 THEN 'BELOW AVG SPEECHINESS'

    ELSE 'SPEECHINESS CANNOT BE DETERMINED'

END AS SPECCHINESS_TYPE

FROM AD_SPOTIFY)

GROUP BY 1

ORDER BY 2 DESC;

```
541    -- no of songs in each speechiness type
542    SELECT SPECCHINESS_TYPE,COUNT(*)
543    FROM (SELECT *,
544    CASE WHEN SPEECHINESS > 0.081 THEN 'ABOVE AVG SPEECHINESS'
545        WHEN SPEECHINESS = 0.081 THEN 'AVG SPEECHINESS'
546        WHEN SPEECHINESS < 0.081 THEN 'BELOW AVG SPEECHINESS'
547        ELSE 'SPEECHINESS CANNOT BE DETERMINED'
548    END AS SPECCHINESS_TYPE
549    FROM AD_SPOTIFY)
550    GROUP BY 1
551    ORDER BY 2 DESC;
552
```

↳ Results   ~ Chart   🔍 ▮▯ ⬇ ▯

	SPECCHINESS_TYPE	COUNT(*)
1	BELOW AVG SPEECHINESS	1,469
2	ABOVE AVG SPEECHINESS	827
3	AVG SPEECHINESS	3
4	SPEECHINESS CANNOT BE DETERMINED	1

Query Details   ⋯

Query duration   54ms

Rows   4

Query ID   01af5a79-3200-e80f-0...

SPECCHINESS_TYPE   A

100% filled

/*18. Acoustic Analysis : DISTINCT TOP 25 track_name, album, artist_name, acousticness (acousticness BETWEEN 0 AND 0.40000 -> 'Not Acoustic' (acousticness BETWEEN 0.40001 AND 0.80000) ->'Acoustic' (acousticness BETWEEN 0.80001 AND 1) ->'Highly Acoustic' */

SELECT TRACK_NAME,ALBUM, ARTIST_NAME,ACOUSTICNESS,

CASE WHEN ACOUSTICNESS BETWEEN 0 AND 0.4000 THEN 'NOT ACOUSTIC'

    WHEN ACOUSTICNESS BETWEEN 0.40001 AND 0.8 THEN 'ACOUSTIC'

    WHEN ACOUSTICNESS BETWEEN 0.80001 AND 1 THEN 'HIGHLY ACOUSTIC'

    ELSE 'ACOUSTICNESS CANNOT BE DETERMINED'

END AS ACOUSTICITY

FROM AD_SPOTIFY

ORDER BY 1 DESC

LIMIT 25;

```
553    /*18. Acoustic Analysis : DISTINCT TOP 25 track_name, album, artist_name, acousticness (acousticness BETWEEN 0 AND 0.40000 -> 'Not Acoustic'
       (acousticness BETWEEN 0.40001 AND 0.80000) ->'Acoustic' (acousticness BETWEEN 0.80001 AND 1) ->'Highly Acoustic' */
554
555    SELECT TRACK_NAME,ALBUM, ARTIST_NAME,ACOUSTICNESS,
556    CASE WHEN ACOUSTICNESS BETWEEN 0 AND 0.4000 THEN 'NOT ACOUSTIC'
557        WHEN ACOUSTICNESS BETWEEN 0.40001 AND 0.8 THEN 'ACOUSTIC'
558        WHEN ACOUSTICNESS BETWEEN 0.80001 AND 1 THEN 'HIGHLY ACOUSTIC'
559        ELSE 'ACOUSTICNESS CANNOT BE DETERMINED'
560    END AS ACOUSTICITY
561    FROM AD_SPOTIFY
562    ORDER BY 1 DESC
563    LIMIT 25;
564
565    -- no of songs categories in each acoustic range
```

↳ Results   ~ Chart   🔍 ▮▯ ⬇

	TRACK_NAME	ALBUM	ARTIST_NAME	⋯	ACOUSTICNESS	ACOUSTICITY
1	you broke me first	you broke me first	Tate McRae		0.78500000	ACOUSTIC
2	willow	evermore	Taylor Swift		0.83300000	HIGHLY ACOUSTI
3	when the party's over	WHEN WE ALL FALL ASLEEP WHERE DO WE GO?	Billie Eilish		0.97800000	HIGHLY ACOUSTI
4	we fell in love in october	we fell in love in october / October Passed Me By	girl in red		0.11300000	NOT ACOUSTIC
5	traitor	SOUR	Olivia Rodrigo		0.69100000	ACOUSTIC
6	traitor	SOUR	Olivia Rodrigo		0.69100000	ACOUSTIC
7	thank u next	thank u next	Ariana Grande		0.22900000	NOT ACOUSTIC

Query Details

Query duration   4

Rows

Query ID   01af5a79-3200-e80f-

TRACK_NAME

traitor

positions

-- no of songs categories in each acoustic range

SELECT ACOUSTICITY, COUNT(*) FROM (SELECT TRACK_NAME,ALBUM, ARTIST_NAME,ACOUSTICNESS,

CASE WHEN ACOUSTICNESS BETWEEN 0 AND 0.4000 THEN 'NOT ACOUSTIC'

    WHEN ACOUSTICNESS BETWEEN 0.40001 AND 0.8 THEN 'ACOUSTIC'

    WHEN ACOUSTICNESS BETWEEN 0.80001 AND 1 THEN 'HIGHLY ACOUSTIC'

    ELSE 'ACOUSTICNESS CANNOT BE DETERMINED'

END AS ACOUSTICITY

FROM AD_SPOTIFY)

GROUP BY 1;

```
565     -- no of songs categories in each acoustic range
566     SELECT ACOUSTICITY, COUNT(*) FROM (SELECT TRACK_NAME,ALBUM, ARTIST_NAME,ACOUSTICNESS,
567     CASE WHEN ACOUSTICNESS BETWEEN 0 AND 0.4000 THEN 'NOT ACOUSTIC'
568         WHEN ACOUSTICNESS BETWEEN 0.40001 AND 0.8 THEN 'ACOUSTIC'
569         WHEN ACOUSTICNESS BETWEEN 0.80001 AND 1 THEN 'HIGHLY ACOUSTIC'
570         ELSE 'ACOUSTICNESS CANNOT BE DETERMINED'
571     END AS ACOUSTICITY
572     FROM AD_SPOTIFY)
573     GROUP BY 1;
```

↳ **Results** ∿ Chart

	ACOUSTICITY	COUNT(*)
1	NOT ACOUSTIC	2,018
2	ACOUSTIC	229
3	HIGHLY ACOUSTIC	52
4	ACOUSTICNESS CANNOT BE DETERMINED	1