### - SPOTIFY INTERVIEW QUESTION -

++		
artist_id	artist_name	
101	Ed Sheeran	
	Drake	

+		
song_id	artist_id	
	101	
19960	120	
+	++	

TABLE 2: songs

++		
song_id	artist_id	
	101	
19960	120	
+	++	

TABLE 3: alohal cong rank

# QUERY:

```
WITH top_artist AS (
SELECT
 artist_id, DENSE_RANK() OVER (
    ORDER BY song_count DESC) AS artist_rank
FROM (
 SELECT songs.artist_id, COUNT(songs.song_id) AS song_count
  FROM songs
  INNER JOIN global_song_rank AS ranking
    ON songs.song_id = ranking.song_id
  WHERE ranking.rank <= 10, GROUP BY songs.artist_id)</pre>
      AS top_songs)
          SELECT artists.artist_name, top_artists.artist_rank
              FROM top_artists
          INNER JOIN artists
          ON top_artists.artist_id = artists.artist_id
              WHERE top_artists.atist_rank <= 5</pre>
          ORDER BY top_artists.artist_rank, artists.artist_name;
```

# OUTPUT:

artist_name	artist_rank
Bad Bunny	1
Ed Sheeran	2
Adele	3
Lady Gaga	3
Katy Perry	4
Drake	5
	+

Question Link: https://datalemur.com/questions/top-fans-rank

### - EXPLANATION-

QUESTION: Spotify tables containing information about the artists, songs, and music charts. Write a query to determine the top 5 artists whose songs appear in the Top 10 of the global\_song\_rank table the highest number of times. From now on, we'll refer to this ranking number as "song appearances".

Output the top 5 artist names in ascending order along with their song appearances ranking (not the number of song appearances, but the rank of who has the most appearances). The order of the rank should take precedence.

EXPLANATION: STEP 1: Firstly join the tables songs and global\_song\_rank tables to get a table with artist and filter the top 10 ranks, wrap the query in CTE.

STEP 2: We can accomplish this by using the above as a subquery, and implementing a DENSE\_RANK, window function. DENSE\_RANK will help us create a ranking based on the number of times the artists' songs appear in descending order.

STEP 3: For the final step, we'll use a CTE to find the top 5 artists, then JOIN it with the artists table to get their names.

### OUTPUT:

   	artist_name	artist_rank
i	Bad Bunny	1
1	Ed Sheeran	2
1	Adele	3
1	Lady Gaga	3
1	Katy Perry	4
1	Drake	5
+		+