



## Top 5 Artists [Spotify SQL Interview Question]

Assume there are three 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.

For example, Ed Sheeran's songs appeared 5 times in Top 10 list of the global song rank table; this is the highest number of appearances, so he is ranked 1st. Bad Bunny's songs appeared in the list 4, so he comes in at a close 2nd.

#### Assumptions:

- If two artists' songs have the same number of appearances, the artists should have the same rank.
- The rank number should be continuous (1, 2, 2, 3, 4, 5) and not skipped (1, 2, 2, 4, 5).

#### artists Table:

Column Name	Туре
artist_id	integer
artist_name	varchar

#### artists Example Input:

artist_id	artist_name	
101	Ed Sheeran	
120	Drake	

### songs Table:

Column Name	Туре
song_id	integer
artist_id	integer

### songs Example Input:

song_id	artist_id	
45202	101	
19960	120	

# Solution Query ---->

#### global\_song\_rank Table:

Column Name	Туре
day	integer (1-52)
song_id	integer
rank	integer (1-1,000,000)

## global\_song\_rank Example Input:

day	song_id	rank
1	45202	5
3	45202	2
1	19960	3
9	19960	15

```
with rank_ as (
  select
   a.artist_name,
   count(day) as count_,
    1 as support
 from
    artists a
   left join
   songs s
    on a.artist_id = s.artist_id
   left join
      select
      from
        global_song_rank
      where
        rank ≤ 10
    ) r on s.song_id = r.song_id
  group by 1
 order by 1
)
select
 artist_name,
 rank_1
from
 (
   select
     *,
      dense_rank() over(partition by support order by count_ desc) as rank_1
    from
      rank_
  ) sub
where
  rank_1 < 6
order by
 2, 1
```

. .