

Q1.) List few songs and its artist: Eminem with album name 'Recovery' and release year '2010'.

```
CREATE VIEW Eminem_2010 AS
select distinct a.song_name, a.song_album, b.name, c.Release_year from songs a
JOIN artist b on b.name = a.song_artist
JOIN album c on c.name = a.song_album
where b.name = 'Eminem' and c.Release_year = '2010';
```

Q2.) Find a tweet which mentions a song whose artist name is 'eminem'.

```
CREATE VIEW eminem_songs AS
SELECT a.tweet_text,b.song_name from music.tweets a join music.songs b on a.song_id = b.song_id
where a.tweet_text like '%Eminem%';
```

Q3.) search for a song from our database and find it in twitter tweets and show the number of re-tweets for that tweet.

```
CREATE VIEW song_retweets AS
select a.tweet_text, b.song_name, b.song_artist, a.retweet
from music.tweets a join music.songs b
on a.song_id = b.song_id
where a.tweet_text like '%Sweet%';
```

Q4.) Fetch songs and retweets tweeted by spotify twitter handle and find similar results in your music database.

```
CREATE VIEW spotify_twitter_songs AS
select a.tweet_text,b.song_name,b.song_artist,a.retweet
from music.tweets a join music.songs b
on a.song_id = b.song_id where a.twitter_handle like '%AM25spotify%';
```

Q5.) Display few artists and their age whose name starts with 'L' and age is above 40?

```
CREATE VIEW L40 AS
select distinct a.name, a.age from artist a Join songs b
on a.name = b.song_artist
where a.name like 'L%' and age>40;
```

Q6.) Show some popular bollywood songs sung by 'Arijit Singh' with least popularity ratings.

```
CREATE VIEW less_popular_arijit_singh_songs AS
select distinct a.song_name,a.song_artist,a.song_popularity from songs a
join artist b on b.name = a.song_artist
join album c on c.name = a.song_album
where b.name = 'Arijit Singh' and a.song_genre = 'Bollywood'
order by song_popularity ASC;
```

Q7.) List the songs with the least number of tweets between 2022-11-1 between 2022-11-12.

```
CREATE VIEW least_tweet_songs AS
Select m.song_name, count(t.song_id) as count from songs m
inner join tweets t on
t.song_id=m.song_id group by m.song_name
order by count
limit 1;
```

Q8.) What are the top 10 songs with highest popular ratings and in English language?

```
CREATE VIEW top10_popular_songs AS
select song_name,song_popularity from music.songs
where song_language = 'english' order by song_popularity desc limit 10;
```

Q9.) How many unique artists are there in the database where genre is 'Pop'?

```
CREATE VIEW pop_genre_artists AS
select distinct name from artist a JOIN songs b
on a.name = b.song_artist
where song_genre = 'Pop';
```

Q10.) Name few artists whose name starts with 'M' and age is above 30?

```
CREATE VIEW artistM30 AS
select distinct a.name from artist a join songs b on a.name = b.song_artist
where a.name like 'M%' and age>30;
```

Q11.) List songs with rating above 80 and release year between 2000 and 2015

```
CREATE VIEW high_rating80 AS
select a.song_name from songs a JOIN album b
on a.song_album = b.name
where song_popularity > 80 and
b.Release_year between '2000' and '2015';
```

Q12.) How many unique albums does artist 'Michael Jackson' have in the database?

```
CREATE VIEW mj_unique_albums AS
select count (distinct song_album) as unique_albums from songs
where song_artist = 'Michael Jackson';
```

Q13.) Return songs sung by Arijit Singh with record label 'T-series' and release year between 2013 and 2015.

```
CREATE VIEW arijit_singh AS
select a.song_name, b.recordLabel, c.Release_year from
songs a JOIN artist b on b.name = a.song_artist
JOIN album c on c.name = a.song_album
where b.name = 'Arijit Singh' and b.recordLabel = 'T-series'
and c.Release_year between '2013' and '2015';
```

Q14.) Show all songs in the database where Eminem has been a contributor.

```
CREATE VIEW eminem_songs AS
select count(distinct song_name) as unique_contributions from songs
where song_artist like '%Eminem%';
```

Q15.) List unique songs with rating less than 80 and release year is 1987

```
CREATE VIEW 1987_80less AS
select distinct a.song_name, b.release_year from songs a JOIN album b
on a.song_album = b.name
where song_popularity < 80 and b.Release_year = '1987';
```

Q16.) What are the top 10 songs with highest popular ratings and artist name starts with 'M' and in English language?

```
CREATE VIEW 10m_popular_songs AS
select song_name, song_popularity, song_artist from music.songs
where song_language = 'english' and song_artist like 'M%'
order by song_popularity desc limit 10;
```

Q17.) List few songs and its artist: Michael Jackson with album name 'Thriller' and release year '1982'.

```
CREATE VIEW MJ1982Thriller AS
select distinct a.song_name, a.song_artist, a.song_album, c.Release_year
from songs a JOIN artist b on b.name = a.song_artist
JOIN album c on c.name=a.song_album
where b.name = 'Michael Jackson' and c.name = 'Thriller' and c.Release_year = '1982';
```

Q18.) What are the top 5 artists of all time, whose song_language is english and genre = 'Pop' based on highest popular ratings?

```
CREATE VIEW top5_artists AS
select distinct song_artist from music.songs
where song_language = 'English' and song_genre = 'Pop'
order by song_popularity desc limit 5;
```

Q19.) Display song name and its popularity where the number of times song played is greater than 9000.

```
CREATE VIEW most_played AS
Select distinct a.song_name, a.song_popularity from songs a
JOIN play_history b on a.song_id = b.song_id
Where b.played_count>9000;
```

Q20.) List the songs with genre where played count is more than 5000

```
CREATE VIEW 5000played AS
select b.song_name, b.song_genre, c.played_count from music.songs b
Join music.play_history c
on b.song_id = c.song_id
where c.played_count > 5000;
```

TWITTER QUERIES

Q1. What user posted this tweet?

```
CREATE VIEW twitteruser1 AS
SELECT u.name, t.twitter_text
FROM twitter_user AS u INNER JOIN twitter_tweets AS t
ON u.twitter_handle = t.twitter_handle
WHERE t.tweet_id = 1590790945641230337;
```

Q2. When did the user post this tweet?

```
CREATE VIEW twitterusertime1 AS
SELECT u.name, t.twitter_text, t.created_at
FROM twitter_user as u
INNER JOIN twitter_tweets as t
ON u.twitter_handle = t.twitter_handle
WHERE t.tweet_id = 1590790945641230337;
```

Q3. What tweets have this user posted in the past 24 hours?

```
CREATE VIEW twitter24hrs_user1 AS
SELECT u.name, t.twitter_text, t.created_at
FROM twitter_user AS u INNER JOIN twitter_tweets AS t
ON u.twitter_handle = t.twitter_handle
WHERE u.twitter_handle = 'gaugetherange' and
t.created_at > "2022-11-11 19:00:00.0000" and
t.created_at < "2022-11-12 18:59:59.0000";
```

Q4 How many tweets have this user posted in the past 24 hours?

```
CREATE VIEW twitter24hrs_user2 AS
SELECT u.name, count(t.twitter_text), t.created_at
FROM twitter_user AS u INNER JOIN twitter_tweets AS t
ON u.twitter_handle = t.twitter_handle
WHERE u.twitter_handle = 'gaugetherange'
and t.created_at > "2022-11-11 19:00:00.0000"
and t.created_at < "2022-11-12 18:59:59.0000";
```

Q5 When did this user join Twitter?

```
CREATE VIEW twitter_user_join AS
SELECT u.twitter_handle, u.created_at
FROM twitter_user AS u
WHERE u.twitter_handle = 'gaugetherange';
```

Q6 What keywords/ hashtags are popular?

```
CREATE VIEW twitter_tags_count AS
SELECT t.tag, COUNT(t.tag)
FROM tweet_tags AS t
GROUP BY t.tag
ORDER BY COUNT(t.tag) DESC
LIMIT 10;
```

Q7 What tweets are popular?

```
CREATE VIEW twitter_popular_tweets AS
SELECT t.twitter_text, t.retweet
FROM twitter_tweets AS t
ORDER BY t.retweet DESC
LIMIT 10;
```