**Athena Codes Used for Project and Presentation**

1. **Retrieves all columns but limited to first 10 rows:** Select\* from datawarehouse limit 10;
2. **Filter by Name and Track ID**: Select name,track\_id from datawarehouse limit 10;
3. **Filter by Popularity**: SELECT name, popularity FROM datawarehouse WHERE popularity > 80 ORDER BY popularity DESC LIMIT 10;
4. **Count Total Tracks by Artist**: SELECT artist\_name, COUNT(track\_id) AS total\_tracks FROM datawarehouse GROUP BY artist\_name ORDER BY total\_tracks DESC LIMIT 10;
5. **Average Danceability by Genre**: SELECT genre, AVG(danceability) AS avg\_danceability FROM datawarehouse GROUP BY genre ORDER BY avg\_danceability DESC LIMIT 10;
6. **Top 10 Most Popular Tracks Released After 2020**: SELECT name, release\_date, popularity FROM datawarehouse WHERE release\_date > '2020-01-01' ORDER BY popularity DESC LIMIT 10;
7. **Distinct Genres in the Dataset**: SELECT DISTINCT genre FROM datawarehouse;
8. **Top 5 Artists with the Most Followers**: SELECT artist\_name, followers FROM datawarehouse ORDER BY followers DESC LIMIT 5;
9. **Tracks with Explicit Content**: SELECT name, artist\_name, explicit FROM datawarehouse WHERE explicit = true LIMIT 10;
10. **Total Number of Albums per Year**: SELECT YEAR(release\_date) AS release\_year, COUNT(album\_id) AS total\_albums FROM datawarehouse GROUP BY release\_year ORDER BY release\_year DESC LIMIT 10;
11. **Average Loudness of Tracks by Artist**: SELECT artist\_name, AVG(loudness) AS avg\_loudness FROM datawarehouse GROUP BY artist\_name ORDER BY avg\_loudness DESC LIMIT 10;
12. **Top 10 Longest Tracks by Duration**: SELECT name, duration\_ms FROM datawarehouse ORDER BY duration\_ms DESC LIMIT 10;
13. **Most Commonly Featured Artists**: SELECT artist\_name, COUNT(\*) AS feature\_count FROM datawarehouse WHERE is\_featured = true GROUP BY artist\_name ORDER BY feature\_count DESC LIMIT 10;
14. **Tracks Released Between Specific Dates**: SELECT name, artist\_name, release\_date FROM datawarehouse WHERE release\_date BETWEEN '2019-01-01' AND '2020-12-31' ORDER BY release\_date ASC;
15. **Tracks with High Energy and Danceability**: SELECT name, artist\_name, energy, danceability FROM datawarehouse WHERE energy > 0.8 AND danceability > 0.8 ORDER BY energy DESC, danceability DESC LIMIT 10;