##### **ASSIGNMENT-2 (SQL | Aggregate Functions & JOINs)**

**Instructions:**

* There are multiple questions.
* Use **chinook**database to answer the questions.
* Please paste your answers (statements) as a plain text using the related question number.  
  Good Luck!

**Questions:**

1. How many tracks does each album have? Your solution should include Album id and its number of tracks sorted from highest to lowest.

**SELECT**

**albums.AlbumId, COUNT(TrackId)**

**FROM tracks**

**INNER JOIN albums**

**ON tracks.AlbumId = albums.AlbumId**

**GROUP BY albums.AlbumId**

**ORDER BY COUNT(trackId) DESC;**

2. Find the album title of the tracks. Your solution should include track name and its album title.

**SELECT**

**tracks.Name,**

**albums.Title**

**FROM tracks**

**INNER JOIN albums**

**ON tracks.AlbumId = albums.AlbumId;**

1. Find the minimum duration of the track in an album. Your solution should include track name, album id, album title and duration of the track sorted from highest to lowest.

**SELECT**

**tracks.AlbumId,**

**albums.Title,**

**tracks.Name,**

**MIN(Milliseconds)**

**FROM tracks**

**INNER JOIN albums**

**ON tracks.AlbumId = albums.AlbumId**

**GROUP BY Title**

**ORDER BY Milliseconds DESC;**

4. Find the total duration of each album. Your solution should include track name, album id, album title and its total duration sorted from highest to lowest.

**SELECT**

**tracks.AlbumId,**

**albums.Title,**

**tracks.Name,**

**SUM(Milliseconds) AS Total\_Duration**

**FROM tracks**

**INNER JOIN albums**

**ON tracks.AlbumId = albums.AlbumId**

**GROUP BY Title**

**ORDER BY SUM(Milliseconds) DESC;**

**SELECT**

**tracks.AlbumId,**

**albums.Title,**

**SUM(Milliseconds) AS Total\_Duration**

**FROM tracks**

**INNER JOIN albums**

**ON tracks.AlbumId = albums.AlbumId**

**GROUP BY Title**

**ORDER BY SUM(Milliseconds) DESC;**

1. Based on the previous question, find the albums whose total duration is higher than 70 minutes. Your solution should include album title and total duration.

**SELECT**

**albums.Title,**

**sum(tracks.Milliseconds) as Total\_Duration  
FROM tracks**

**JOIN albums**

**ON tracks.AlbumId = albums.AlbumId**

**GROUP BY albums.Title**

**HAVING sum(tracks.Milliseconds) > 4200000**

**ORDER BY sum(tracks.Milliseconds) DESC**