**Assignment - 2 (SQL | Aggregate Functions & JOINs)**

**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 AlbumID, COUNT(AlbumID) AS number\_of\_tracks

FROM tracks

GROUP BY AlbumID

ORDER BY number\_of\_tracks DESC;

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

SELECT tracks.Name AS Track\_name, albums.Title AS Album\_Title

FROM tracks

INNER JOIN albums

ON tracks.AlbumID = albums.AlbumID;

**3.** 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.Name AS Track\_name,

MIN(tracks.Milliseconds) AS Track\_Duration,

albums.Title AS Album\_Title,

albums.AlbumID

FROM tracks

INNER JOIN albums

ON tracks.AlbumID = albums.AlbumID

GROUP BY Album\_Title

ORDER BY tracks.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.Name AS Track\_name,

SUM(tracks.Milliseconds) AS Total\_Duration,

albums.Title AS Album\_Title,

albums.AlbumID

FROM tracks

INNER JOIN albums

ON tracks.AlbumID = albums.AlbumID

GROUP BY Album\_Title

ORDER BY SUM(tracks.Milliseconds) DESC;

**5.** 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 AS Album\_Title,

SUM(tracks.Milliseconds) AS Total\_Duration

FROM tracks

INNER JOIN albums

ON tracks.AlbumID = albums.AlbumID

GROUP BY Album\_Title

HAVING SUM(tracks.Milliseconds) > 4200000

ORDER BY SUM(tracks.Milliseconds) DESC;