

SQL TASK - MUSIC STORE DATA ANALYSIS

Task Objective

You are tasked with performing a comprehensive SQL data analysis on a music store database. The goal is to derive meaningful insights from the dataset by writing a series of SQL queries. This exercise will test your ability to write complex queries, perform aggregations, and extract valuable information from a relational database.

Question Set 1

1. Who is the senior most employee based on job title?
2. Which countries have the most Invoices?
3. What are top 3 values of total invoice?
4. Which city has the best customers? We would like to throw a promotional Music Festival in the city we made the most money. Write a query that returns one city that has the highest sum of invoice totals. Return both the city name & sum of all invoice totals
5. Who is the best customer? The customer who has spent the most money will be declared the best customer. Write a query that returns the person who has spent the most money

Question Set 2

1. Write query to return the email, first name, last name, & Genre of all Rock Music listeners. Return your list ordered alphabetically by email starting with A
2. Let's invite the artists who have written the most rock music in our dataset. Write a query that returns the Artist name and total track count of the top 10 rock bands
3. Return all the track names that have a song length longer than the average song length. Return the Name and Milliseconds for each track. Order by the song length with the longest songs listed first

Question Set 3

1. Find how much amount spent by each customer on artists? Write a query to return customer name, artist name and total spent
2. We want to find out the most popular music Genre for each country. We determine the most popular genre as the genre with the highest amount of purchases. Write a query that returns each country along with the top Genre. For countries where the maximum number of purchases is shared return all Genres
3. Write a query that determines the customer that has spent the most on music for each country. Write a query that returns the country along with the top customer and how much they spent. For countries where the top amount spent is shared, provide all customers who spent this amount

Question Set 4

1. Identify the top 5 customers who have purchased the most tracks in each genre, along with the total amount they spent on each genre.
2. Find the average, minimum, and maximum amount spent per genre by customers in each country, along with the customer's first and last name.
3. Determine the top 3 artists whose tracks are included in the most playlists, along with the total number of playlists and total track count.
4. Find the customers who have bought tracks from the top 3 most popular albums, along with the total amount they spent on these albums.
5. Calculate the total revenue generated by each genre in each country and determine the top revenue-generating genre for each country. Include the customer's first and last name who contributed the most to this genre.
6. Find the employees who have managed the highest number of distinct customers, along with the total amount of invoices generated under their management.
7. Determine the customer that has spent the most on each genre in each country.
8. Determine the ranking of customers within each genre based on the total amount they have spent.