

# SQL Project – Music Store Data Analysis

This project includes multiple SQL queries designed to analyze data from a music store database. The questions are grouped by difficulty level: Easy, Moderate, and Advanced.

## Question Set 1 – Easy

1. Who is the senior-most employee based on job title?
2. Which countries have the most invoices?
3. What are the top 3 values of total invoice amounts?
4. Which city has the best customers?
  - We would like to throw a promotional Music Festival in the city that generated the most revenue.
  - Write a query that returns the city name and the sum of all invoice totals for that city.
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 customer's name and the total amount spent.

## Question Set 2 – Moderate

1. Rock Music Listeners
  - Write a query to return the email, first name, last name, and genre of all customers who listen to Rock music.
  - Order the result alphabetically by email (A-Z).
2. Top Rock Artists
  - Let's invite the artists who have written the most Rock music.
  - Write a query that returns the artist name and total number of rock tracks, limited to the top 10.
3. Long Songs
  - Return all track names that have a song length longer than the average song length.

- **Return the track name and length in milliseconds, ordered by the longest songs first.**

## **● Question Set 3 – Advanced**

### **1. Customer Spend by Artist**

- **Find how much each customer has spent on each artist.**
- **Return the customer name, artist name, and total amount spent.**

### **2. Top Genre by Country**

- **Determine the most popular music genre for each country, based on the number of purchases.**
- **If multiple genres are tied for the top, return all of them.**
- **Return the country and the top genre(s).**

### **3. Top Customer by Country**

- **Find the customer who has spent the most money in each country.**
- **Return the country, customer name, and total amount spent.**
- **In case of ties, return all top-spending customers.**