



Q1: Who is the senior most employee based on job title?

SELECT title, last_name, first_name FROM employee ORDER BY levels DESC LIMIT 1





Q2: Which countries have the most Invoices?

SELECT COUNT(*) AS c, billing_country
FROM invoice
GROUP BY billing_country
ORDER BY c DESC





Q3: What are top 3 values of total invoice?

SELECT total
FROM invoice
ORDER BY 1 DESC
limit 3



Q4: 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?

SELECT total
FROM invoice
ORDER BY 1 DESC
limit 3



Q5: 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?

SELECT customer.customer_id, first_name, last_name, SUM(total) AS total_spending
FROM customer
JOIN invoice ON customer.customer_id = invoice.customer_id
GROUP BY customer.customer_id
ORDER BY total_spending DESC
LIMIT 1



Q6 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.



SELECT DISTINCT email AS Email, first_name AS FirstName, last_name AS LastName, genre.name AS Name

FROM customer

JOIN invoice ON invoice.customer_id =

customer.customer_id

JOIN invoiceline ON invoiceline.invoice_id =

invoice.invoice_id

JOIN track ON track.track_id = invoiceline.track_id

JOIN genre ON genre.genre_id = track.genre_id

WHERE genre.name LIKE 'Rock'

ORDER BY email;



Q7 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?



SELECT artist.artist_id, artist.name,COUNT(artist.artist_id) AS number_of_songs FROM track JOIN album ON album.album_id = track.album_id JOIN artist ON artist.artist_id = album.artist_id JOIN genre ON genre.genre_id = track.genre_id WHERE genre.name LIKE 'Rock' GROUP BY artist.artist_id ORDER BY number_of_songs DESC LIMIT 10;



Q8 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.

SELECT name, miliseconds

FROM track

WHERE miliseconds > (

SELECT AVG(miliseconds) AS avg_track_length

FROM track)

ORDER BY miliseconds DESC;



Q9 Find how much amount spent by each customer on artists? Write a query to return customer name, artist name and total spent?



select c.first_name || ' ' || c.last_name as customer_name,a.name as artist_name, sum(il.unit_price * il.quantity) as total_spent from customer c inner join invoice i on c.customer_id = i.customer_id inner join invoice_line il on i.invoice_id = il.invoice_id inner join track t on t.track_id = il.track_id inner join album al on al.album_id = t.album_id inner join artist a on



al.artist_id = a.artist_id

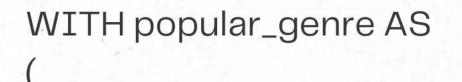
group by 1,2

order by 3 desc

Q10 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.?



SELECT COUNT(invoice_line.quantity) AS purchases,

customer.country, genre.name, genre.genre_id,

ROW_NUMBER() OVER(PARTITION BY

customer.country ORDER BY

COUNT(invoice_line.quantity) DESC) AS RowNo

FROM invoice_line

JOIN invoice ON invoice.invoice_id =

invoice_line.invoice_id

JOIN customer ON customer.customer_id =

invoice.customer_id



JOIN track ON track.track_id = invoice_line.track_id
JOIN genre ON genre.genre_id = track.genre_id
GROUP BY 2,3,4
ORDER BY 2 ASC, 1 DESC
)
SELECT * FROM popular_genre
WHERE RowNo <= 1

Q11 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?



WITH popular_genre AS SELECT COUNT(invoice_line.quantity) AS purchases, customer.country, genre.name, genre.genre_id, ROW_NUMBER() OVER(PARTITION BY customer.country ORDER BY COUNT(invoice_line.quantity) DESC) AS RowNo FROM invoice_line JOIN invoice ON invoice.invoice_id = invoice_line.invoice_id JOIN customer ON customer.customer_id = invoice.customer_id

JOIN track ON track.track_id = invoice_line.track_id JOIN genre ON genre.genre_id = track.genre_id **GROUP BY 2,3,4** ORDER BY 2 ASC, 1 DESC SELECT * FROM popular_genre

WHERE RowNo <= 1

