**MUSIC STORE ANALYSIS**

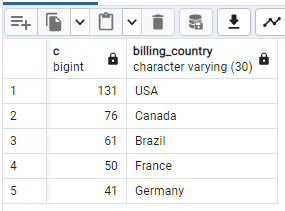
**Q1) Which countries have the most invoices?**

Select count (\*) as c, billing country from invoice

group by billing country

A pie chart with different colors

Description automatically generatedorder by c desc



**Q2) Who is the best customer? Write a query that returns the person who has spent most money.**

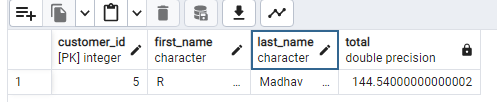
select customer.customer\_id, customer.first\_name, customer.last\_name, SUM(invoice.total) as total from customer

JOIN invoice ON customer.Customer\_id = Invoice.customer\_id

GROUP BY customer.customer\_id

ORDER BY total DESC

limit 1



**Q3) Which city has the best customers? Write a query which returns top cities that has the highest sum of invoice total. Return both the city name & sum of all invoice total.**

Select sum(total) as invoice\_total, billing\_city from invoice

group by billing\_city

A graph with blue squares

Description automatically generatedorder by invoice\_total desc

A screenshot of a computer

Description automatically generatedlimit 5

**Q4) Write query to return email, first name, last name, & genre of all rock music listeners. Return your list ordered alphabetically by email starting with A.**

select c.first\_name, c.last\_name, c.email from customer as c

join invoice on c.customer\_id = invoice.invoice\_id

join invoice\_line on invoice.invoice\_id = invoice\_line.invoice\_id

where track\_id in

(select track\_id from track join genre on genre.genre\_id = track.genre\_id

where genre.name like 'Rock')

order by c.email



**Q5) Lets invite the artists who have written the most rock music in our dataset. Write query that returns the artists’ name and total track count of the top 10 rock bands.**

A screenshot of a computer

Description automatically generatedselect artist.name, count(artist.artist\_id) c from artist

join album on album.artist\_id = artist.artist\_id

join track on track.album\_id = album.album\_id

join genre on genre.genre\_id = track.genre\_id

where genre.name = 'Rock'

group by artist.artist\_id

order by c desc

limit 10

A blue graph with white text

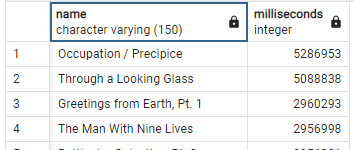
Description automatically generated

**Q6) Return all the track names that have a song length longer than the average song length. Return the names and milliseconds for each track, order by song length with the longest song listed first.**

select name, milliseconds from track

where milliseconds > (select avg(milliseconds) from track)

A graph showing a line

Description automatically generatedorder by milliseconds desc

**Q7) We want to find out the most popular music genre for each country. We determine the most popular genre by highest amount of purchase.**

with popular\_genre as

(select count(invoice\_line.quantity) as purchase, customer.country,

genre.name, genre.genre\_id,

row\_number() over (partition by customer.country order by

count(invoice\_line.quantity) desc) AS row\_no

from invoice\_line

join invoice on invoice.invoice\_id = invoice\_line.invoice\_id

join customer on customer.customer\_id = invoice.customer\_id

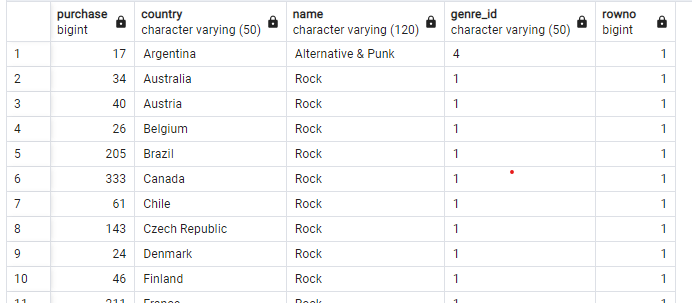
join track on track.track\_id = invoice\_line.track\_id

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 row\_no <=1



**Q8) Find how much amount spent by each customer on artists? Write a query to return customer name, artists name and total spent.**

with best\_selling\_artist as (

A screenshot of a computer

Description automatically generated select artist.artist\_id, artist.name artist\_name,

sum(invoice\_line.unit\_price\*invoice\_line.quantity) as total

from invoice\_line

join track on track.track\_id = invoice\_line.track\_id

join album on album.album\_id = track.album\_id

join artist on artist.artist\_id = album.artist\_id

group by 1

order by 3 desc

limit 1)

select customer.customer\_id, customer.first\_name||' '||customer.last\_name Customer\_name,

bsa.artist\_name, sum(invoice\_line.unit\_price\*invoice\_line.quantity)

as total\_spent from invoice

join customer on customer.customer\_id = invoice.customer\_id

join invoice\_line on invoice\_line.invoice\_id = invoice.invoice\_id

join track on track.track\_id = invoice\_line.track\_id

join album on album .album\_id = track.album\_id

join best\_selling\_artist bsa on bsa.artist\_id = album.artist\_id

group by 1,3

order by 4 desc

A pie chart with different colors

Description automatically generatedlimit 10