MUSIC PARTY

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MUSIC STORE

2024

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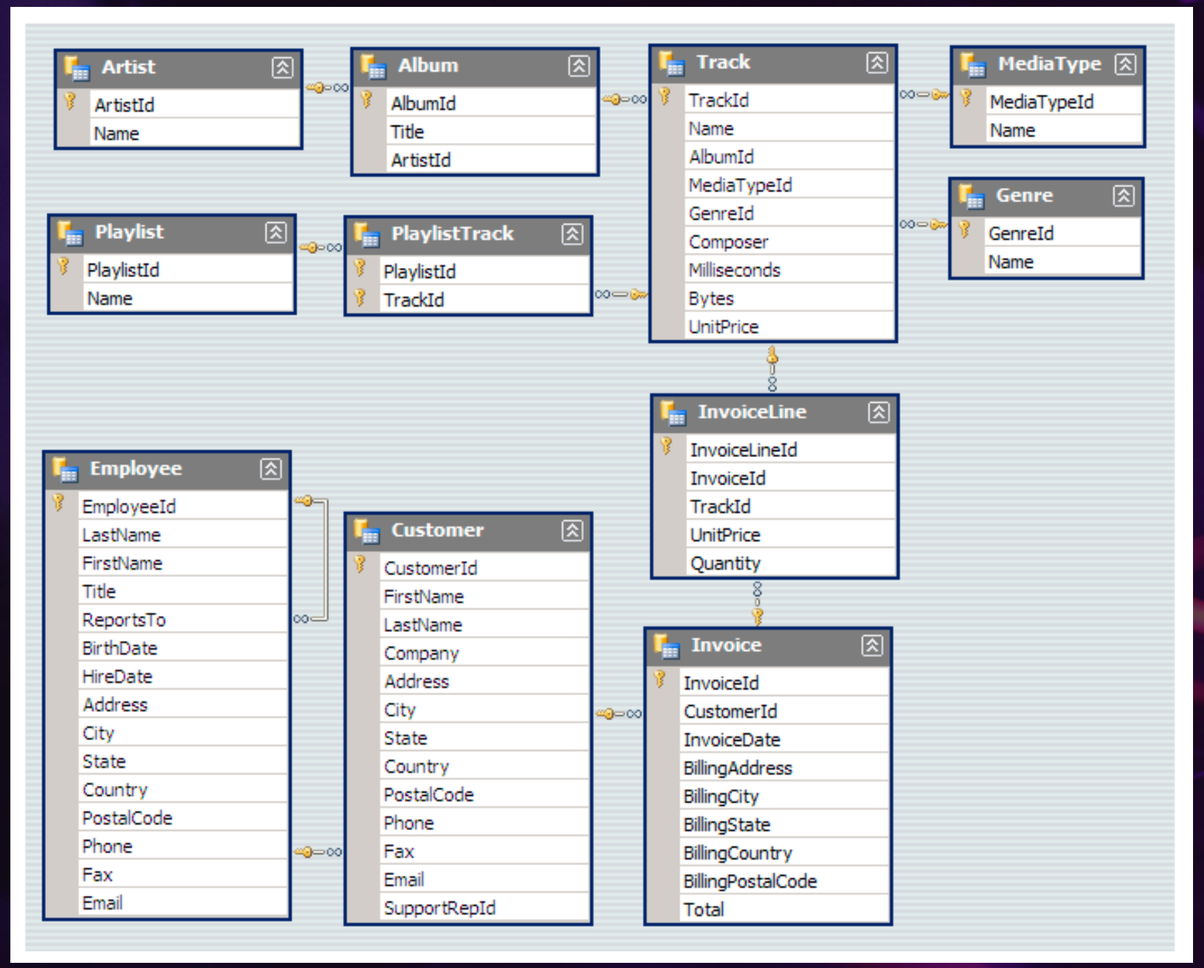
Introduction

Pay close attention to each instruction on the question. Sing or play the right song. Play in order! Let’s start!

Let’s start!

Schema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Title
ArtistId
Track
TrackId
Name
AlbumId
MediaTypeId
GenreId
Composer
Milliseconds
Bytes
UnitPrice
MediaType
MediaTypeId
Name
Genre
GenreId
Name
Playlist
PlaylistId
Name
PlaylistTrack
PlaylistId
TrackId
InvoiceLine
InvoiceLineId
InvoiceId
TrackId
UnitPrice
Quantity
Employee
EmployeeId
LastName
FirstName
Title
ReportsTo
BirthDate
HireDate
Address
City
State
Country
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Phone
Fax
Email
Customer
CustomerId
FirstName
LastName
Company
Address
City
State
Country
PostalCode
Phone
Fax
Email
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InvoiceDate
BillingAddress
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BillingState
BillingCountry
BillingPostalCode
Total

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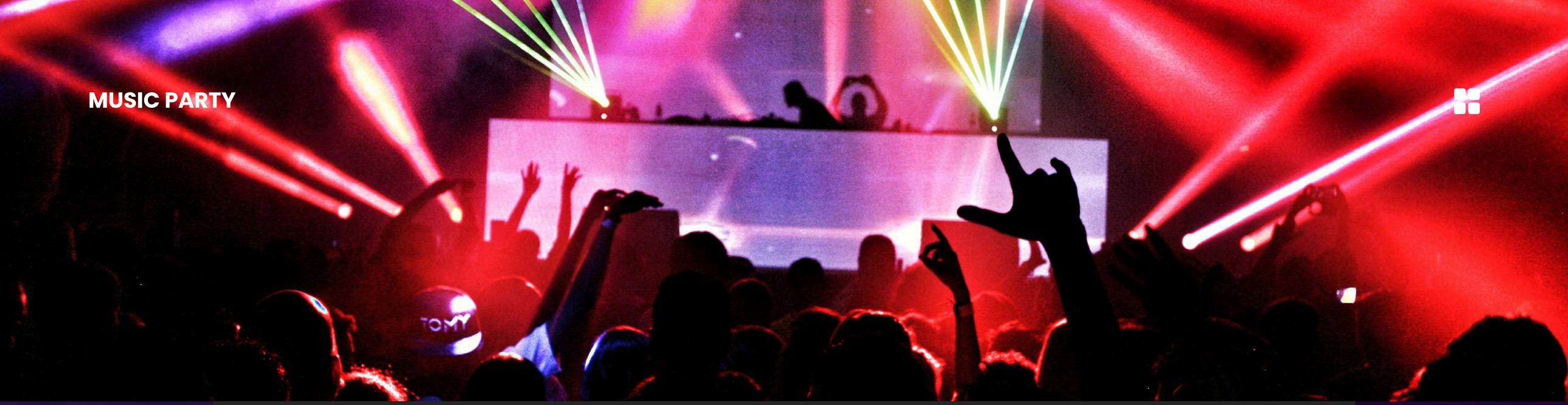

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Question Set - 1

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

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```sql

-- 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

```

	title	last_name	first_name
▶	General Manager	Adams	Andrew

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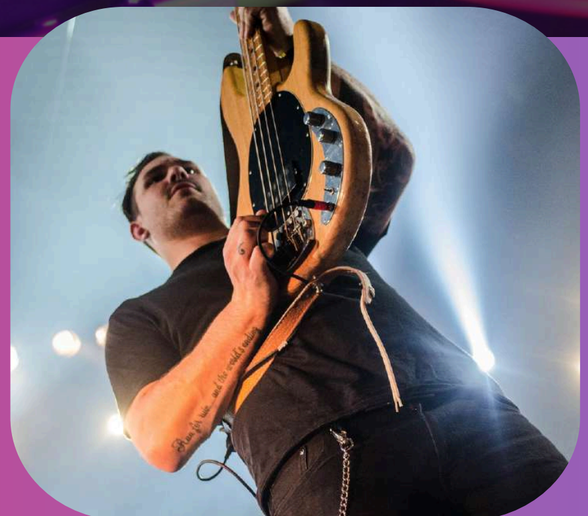
```sql
-- Q2: Which countries have the most Invoices?

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

Result Grid | Filter Rows:

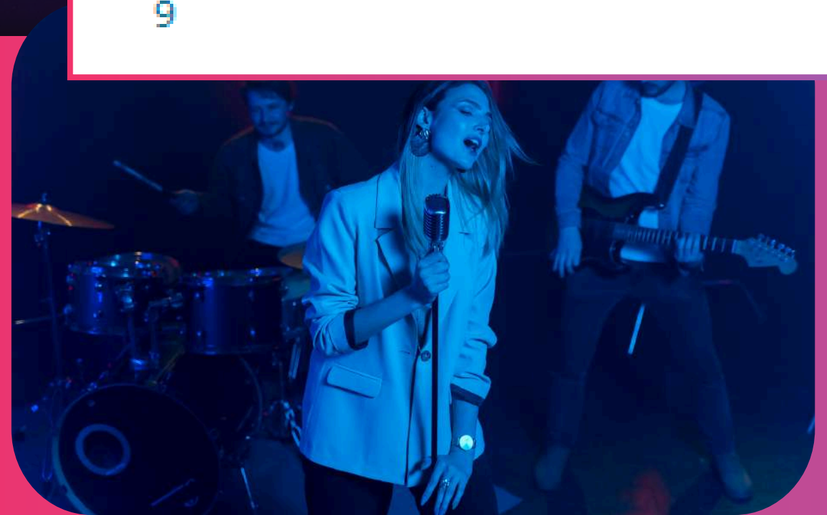
c	billing_country
131	USA
76	Canada
61	Brazil
50	France
41	Germany
30	Czech Republic
29	Portugal
28	United Kingdom
21	India
13	Ireland

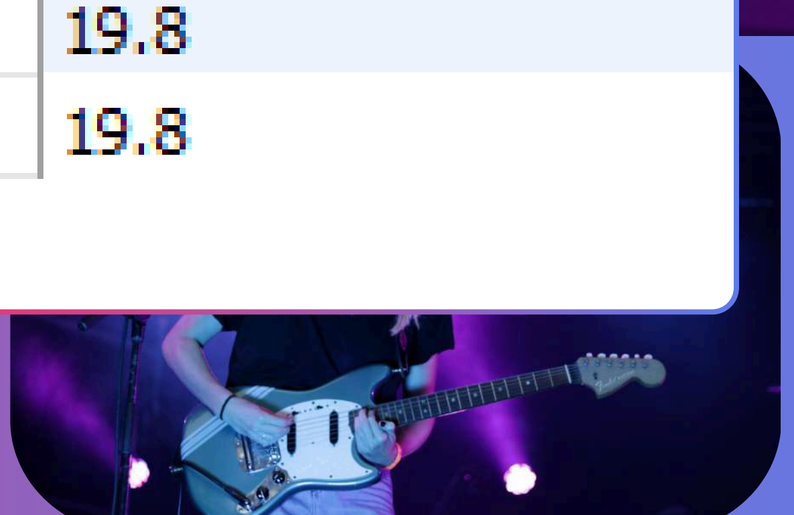


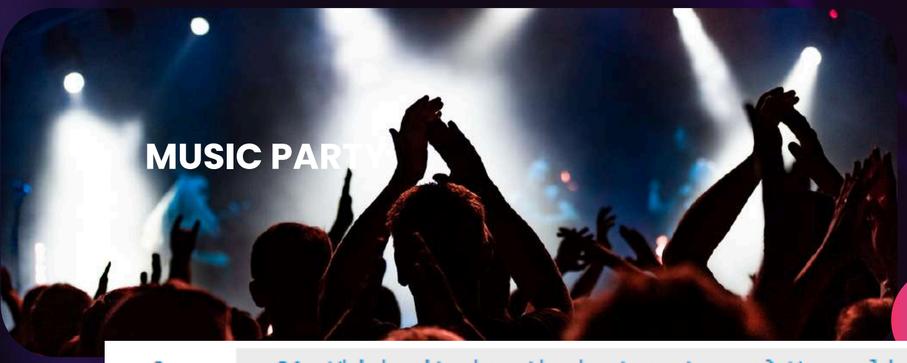
```sql

-- Q3: What are top 3 values of total invoice?

SELECT
    total
FROM
    invoice
ORDER BY total DESC limit 3 ;

```

Result Grid

total
23.75999999999998
19.8
19.8







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```sql
-- 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
    billing_city, SUM(total) AS InvoiceTotal
FROM
    invoice
GROUP BY billing_city
ORDER BY InvoiceTotal DESC
LIMIT 1;
```

Result Grid | Filter Rows:

billing_city	InvoiceTotal
Prague	273.2400000000007

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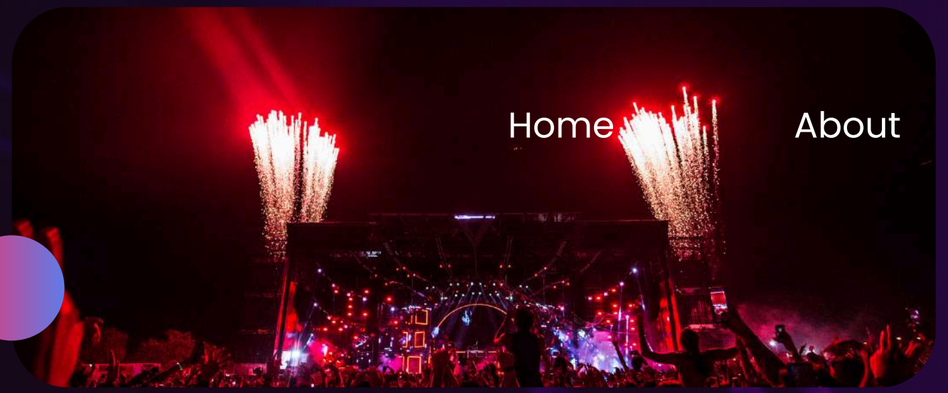
```sql
-- Q5: Who is the best customer? The customer who has spent the most money will be declared the best customer.
-- Write a query that returns the person who has spent the most money.

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 , first_name , last_name
ORDER BY total_spending DESC
LIMIT 1;
```

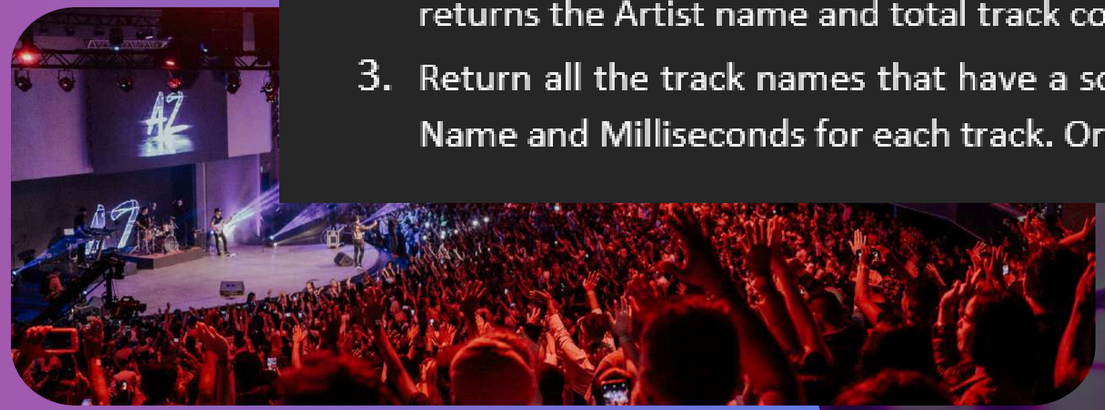
Result Grid | Filter Rows: | Export:

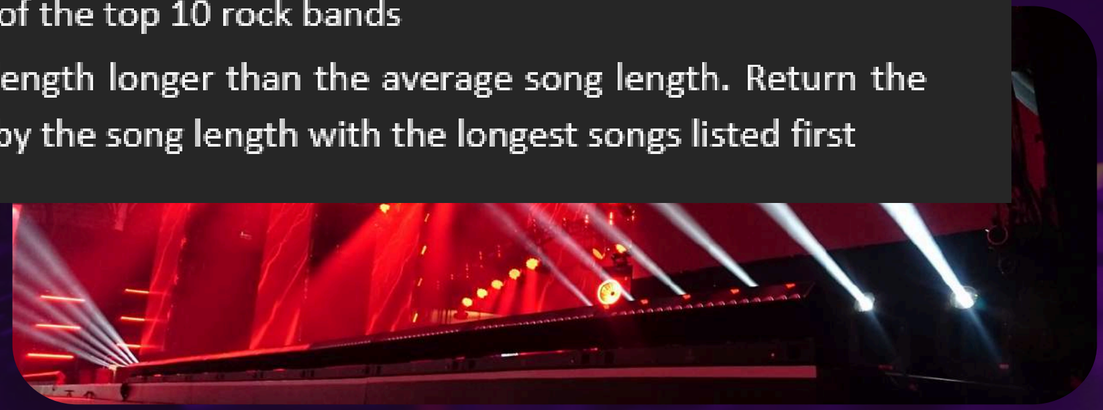
customer_id	first_name	last_name	total_spending
5	FrantiÅiek	WichterlovÃ¡	144.54000000000002



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





```sql
-- Q1: 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,first_name, last_name
FROM customer
JOIN invoice ON customer.customer_id = invoice.customer_id
JOIN invoiceline ON invoice.invoice_id = invoiceline.invoice_id
WHERE track_id IN(
    SELECT track_id FROM track
    JOIN genre ON track.genre_id = genre.genre_id
    WHERE genre.name LIKE 'Rock'
)
ORDER BY email;
```

email	first_name	last_name
aaronmitchell@yahoo.ca	Aaron	Mitchell
alero@uol.com.br	Alexandre	Rocha
astrid.gruber@apple.at	Astrid	Gruber
bjorn.hansen@yahoo.no	BjÃ¸rn	Hansen
camille.bernard@yahoo.fr	Camille	Bernard
daan_peeters@apple.be	Daan	Peeters
diego.gutierrez@yahoo.ar	Diego	GutiÃ©rrez
dmiller@comcast.com	Dan	Miller
dominiquelefebvre@gmail.com	Dominique	Lefebvre
edfrancis@yachoo.ca	Edward	Francis
eduardo@woodstock.com.br	Eduardo	Martins
ellie.sullivan@shaw.ca	Ellie	Sullivan
emma_jones@hotmail.com	Emma	Jones
enrique_munoz@yahoo.es	Enrique	MuÃ±oz
fernadaramos4@uol.com.br	Fernanda	Ramos

email	first_name	last_name
fharris@google.com	Frank	Harris
fralston@gmail.com	Frank	Ralston
frantisekw@jetbrains.com	FrantiÅ¡ek	WichterlovÃ¡
ftremblay@gmail.com	FranÃ§ois	Tremblay
fzimmermann@yahoo.de	Fynn	Zimmermann
hannah.schneider@yahoo.de	Hannah	Schneider
hholy@gmail.com	Helena	HolÃ½
hleacock@gmail.com	Heather	Leacock
hughoreilly@apple.ie	Hugh	O'Reilly
isabelle_mercier@apple.fr	Isabelle	Mercier
jacksmith@microsoft.com	Jack	Smith
jenniferp@rogers.ca	Jennifer	Peterson
jfernandes@yahoo.pt	JoÃ£o	Fernandes
joakim.johansson@yahoo.se	Joakim	Johansson
johavanderberg@yahoo.nl	Johannes	Van der Berg

email	first_name	last_name
johngordon22@yahoo.com	John	Gordon
jubarnett@gmail.com	Julia	Barnett
kachase@hotmail.com	Kathy	Chase
kara.nielsen@jubii.dk	Kara	Nielsen
ladislav_kovacs@apple.hu	Ladislav	KovÃ¡cs
leonekohler@surfeu.de	Leonie	KÃ¶hler
lucas.mancini@yahoo.it	Lucas	Mancini
luisg@embraer.com.br	LuÃs	GonÃ§alves
luisrojas@yahoo.cl	Luis	Rojas
manoj.pareek@rediff.com	Manoj	Pareek
marc.dubois@hotmail.com	Marc	Dubois
mark.taylor@yahoo.au	Mark	Taylor
marthasilk@gmail.com	Martha	Silk
masampaio@sapo.pt	Madalena	Sampaio
mphilips12@shaw.ca	Mark	Philips

email	first_name	last_name
mphilips12@shaw.ca	Mark	Philips
nschroder@surfeu.de	Niklas	SchrÃ¶der
patrick.gray@aol.com	Patrick	Gray
phil.hughes@gmail.com	Phil	Hughes
ricunningham@hotmail.com	Richard	Cunningham
rishabh_mishra@yahoo.in	Rishabh	Mishra
robbrown@shaw.ca	Robert	Brown
roberto.almeida@riotur.gov.br	Roberto	Almeida
stanisÅ‚aw.wÃ³jcik@wp.pl	StanisÅ‚aw	WÃ³jcik
steve.murray@yahoo.uk	Steve	Murray
terhi.hamalainen@apple.fi	Terhi	HÃ¤mÃ¤lÃ¤inen
tgoyer@apple.com	Tim	Goyer
vstevens@yahoo.com	Victor	Stevens
wyatt.girard@yahoo.fr	Wyatt	Girard

```sql
-- Q2: 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;
```

Result Grid | Filter Rows: | Export:

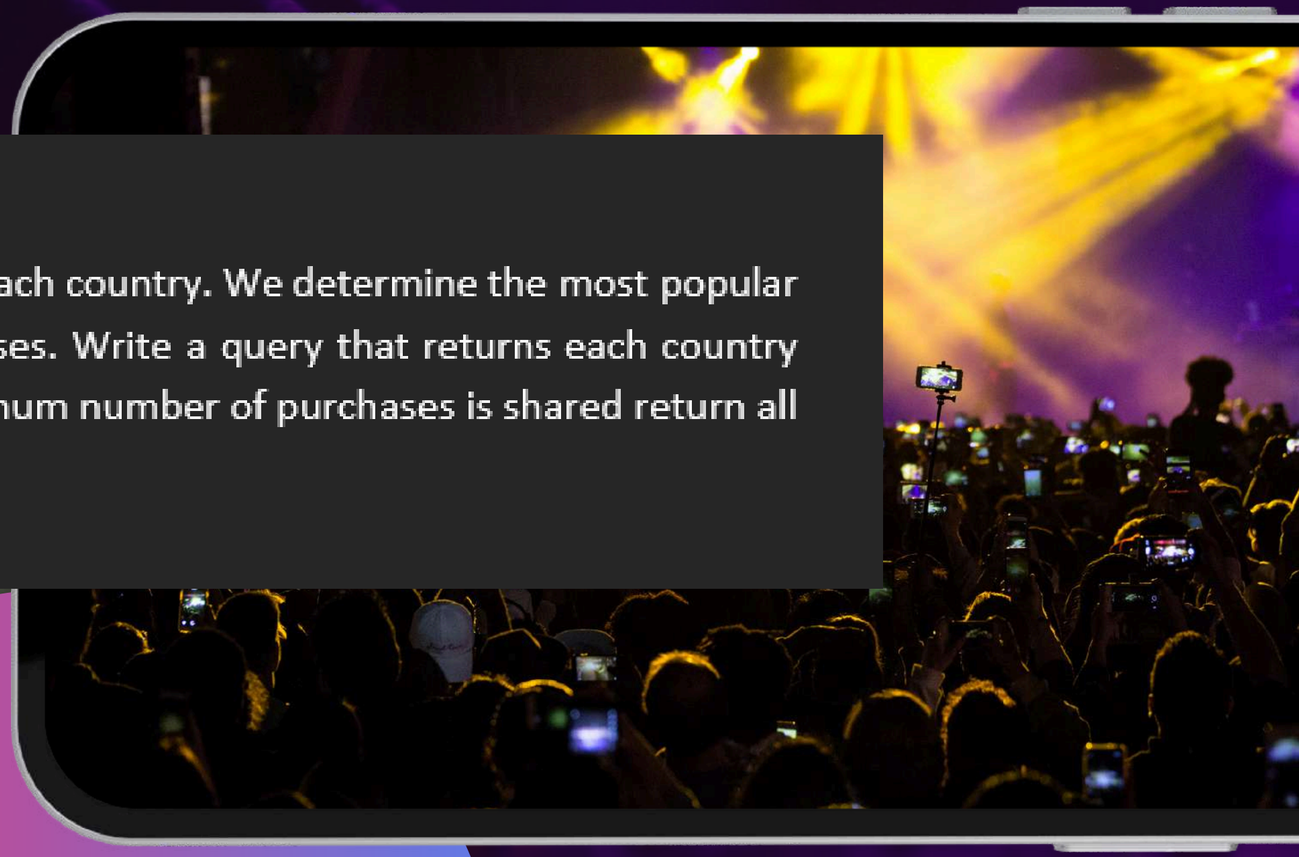
artist_id	name	number_of_songs
1	AC/DC	18
3	Aerosmith	15
8	Audioslave	14
22	Led Zeppelin	14
4	Alanis Morissette	13
5	Alice In Chains	12
23	Frank Zappa & Captain Beefheart	9
2	Accept	4

```sql
-- Q3: 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, milliseconds
FROM
    track
WHERE
    milliseconds > (SELECT
            AVG(milliseconds) AS avg_track_length
        FROM
            track)
ORDER BY milliseconds DESC limit 10;
```

Result Grid | Filter Rows: | Exp

name	milliseconds
How Many More Times	711836
Advance Romance	677694
Sleeping Village	644571
You Shook Me(2)	619467
Talkin' 'Bout Women Obviously	589531
Stratus	582086
No More Tears	555075
The Alchemist	509413
Wheels Of Confusion / The Straightener	494524
Book Of Thel	494393



Question Set - 3

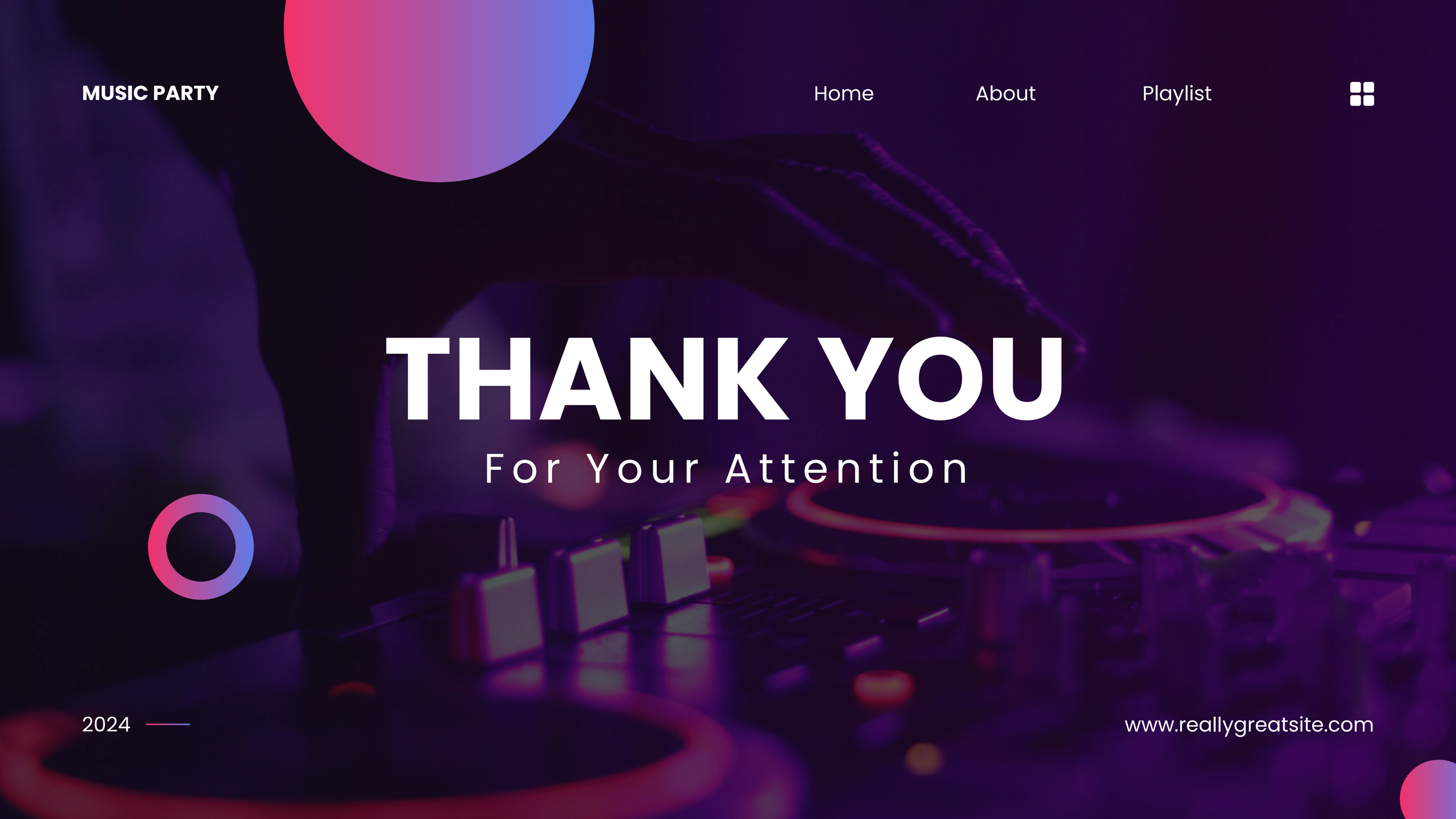
1. We want to find out the most popular music Genre for each country. We determine the most popular genre as the genre with the highest number of purchases. Write a query that returns each country along with the top Genre. For countries where the maximum number of purchases is shared return all Genres

```sql
-- Q1: 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.

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 limit 1)
SELECT * FROM popular_genre WHERE RowNo <= 1
```

Result Grid | Filter Rows: | Export:

	purchases	country	name	genre_id	RowNo
▶	1	Argentina	Rock	1	1



THANK YOU

For Your Attention