Music Store Analysis

Easy

01 Who is the senior-most employee based on job title

```
Select levels, title,
concat(first_name,
last_name) as
employee_name
from employee
order by levels desc
limit 1;
```

levels	title	employee_name
L6	General Manager	AndrewAdams

02 Which countries have the most invoices

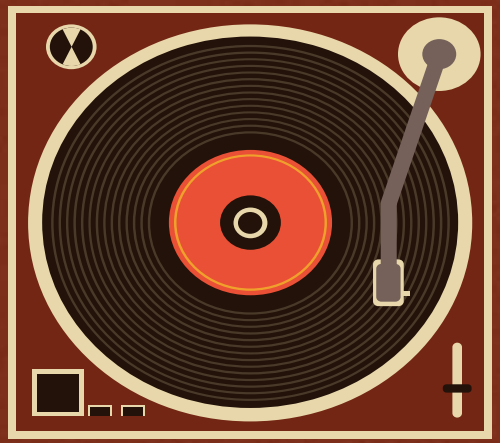
```
select billing_country,
count(invoice_id) as
total_invoice
from invoice
group by billing_country
order by total_invoice
desc;
```

billing_country	total_invoice
USA	131
Canada	76
Brazil	61
France	50
Germany	41

03 What are the top 3 values of total invoices

```
select invoice_id,
round(total) as
total_invoices
from invoice
order by total desc
limit 3;
```

invoice_id	total_invoices
183	24
92	20
31	20



04

Which city has the best customers? 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 as
city_name,
round(sum(total)) as
invoice_total
from invoice
group by city_name
order by invoice_total desc
limit 1;
```

	city_name	invoice_total
▶	Prague	273

05

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 concat(c.first_name,
c.last_name) as
Customer_name,
round(sum(total)) as
money_spent
from customer as c
join invoice as i on
i.customer_id=
c.customer_id
group by Customer_name
order by money_spent
limit 1;
```

	Customer_name	money_spent
▶	MarkPhilips	30

Moderate

01

Write a 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(c.email),
c.first_name, c.last_name
from customer c
join invoice i on
c.customer_id=i.customer_id
join invoice_line il on
i.invoice_id=il.invoice_id
join track t on
il.track_id=t.track_id
join genre g on
t.genre_id=g.genre_idwhere
g.name= "Rock“
order by c.email;
```

email	first_name	last_name	genre_name
aaronmitchell@yahoo.ca	Aaron	Mitchell	Rock
alero@uol.com.br	Alexandre	Rocha	Rock
astrid.gruber@apple.at	Astrid	Gruber	Rock
bjorn.hansen@yahoo.no	BjÃ¸rn	Hansen	Rock
camille.bernard@yahoo.fr	Camille	Bernard	Rock

02

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

```
select ar.name as artist_name, count(track_id) as total_trackfrom track t
join album2 a on t.album_id=a.album_id
join artist ar on a.artist_id=ar.artist_idwhere genre_id= 1
group by artist_name
order by total_track desc
limit 10;
```

artist_name	total_track
AC/DC	18
Aerosmith	15
Audioslave	14
Led Zeppelin	14
Alanis Morissette	13

```
select name as track_name,
milliseconds
from track
where milliseconds >
(select avg(milliseconds)
as avg
from track)
order by milliseconds desc;
```

03

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.

track_name	milliseconds
How Many More Times	711836
Advance Romance	677694
Sleeping Village	644571
You Shook Me(2)	619467
Talkin' 'Bout Women Obviously	589531

Advance

```
select c.customer_id,
concat(c.first_name,c.last_name)
as customer_name,
ar.name as artist_name,
sum(il.unit_price*il.quantity)
as total_spentfrom customer c
join invoice i on
c.customer_id=i.customer_id
join invoice_line il on
i.invoice_id=il.invoice_id
join track t on
il.track_id=t.track_id
join album2 a on
t.album_id=a.album_id
join artist ar on
a.artist_id=ar.artist_id
group by 1,2,3
order by artist_name,
total_spent desc;
```

01

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

customer_id	customer_name	artist_name	total_spent
54	SteveMurray	AC/DC	17.82
53	PhilHughes	AC/DC	10.89
21	KathyChase	AC/DC	10.89
49	StanisÅ‚awWÃ³jcik	AC/DC	9.9
1	LuÃ-sGonÃ§alves	AC/DC	7.920000000000001

```
with a as(select
i.billing_country,g.name as
genre_name, count(il.quantity) as
total_purchase,
rank()over(partition by
i.billing_country
order by count(il.quantity)desc) as
rank_1from invoice I
join invoice_line il on
i.invoice_id=il.invoice_id
join track t on il.track_id=t.track_id
join genre g on
g.genre_id=t.genre_id
group by 1,2
order by 1 asc , 2 desc)
select * from a
where rank_1 =1
order by total_purchase desc ;
```

02

We want to find out most popular Music Genre for each country.-- We determine the most popular genre as the genre with the highest amount of purchase.-- 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

billing_country	genre_name	total_purchase	rank_1
USA	Rock	70	1
Canada	Rock	57	1
United Kingdom	Rock	47	1
Germany	Rock	28	1
Brazil	Rock	26	1

```
with a as (select c.country,
concat(c.first_name,c.last_name)
as customer_name,
round(sum(i.total)) as spent,
rank()over(partition by c.country
order by round(sum(total))) as
spent_rank
from customer c
join invoice i on
c.customer_id=i.customer_id
group by 1,2
order by c.country asc,
spent desc)
select *
from a
where spent_rank =1
order by spent desc;
```

03

Write a query that determines the customer that has spent on music for each country.
Write a query that returns a country along with the top customer and how much they spent.
For countries the top amount is shared, provide all customers who spent this amount

country	customer_name	spent	spent_rank
Czech Republic	HelenaHolÃ½	129	1
Ireland	HughO'Reilly	115	1
Spain	EnriqueMuÃ±oz	98	1
Chile	LuisRojas	97	1
Portugal	MadalenaSampaio	82	1

Thank you !