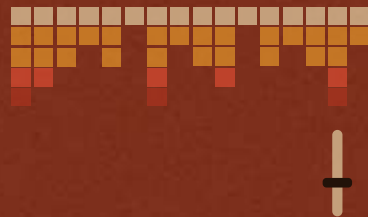



# Music Store Analysis



Easy



## Q1. 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

## Q2. 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




### Q3. 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



**Q4. 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



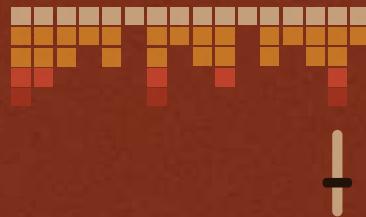
**Q5. Who is the best customer? The customer who has spent the most money will be declared the best customer.**

**Write a query that returns the person who has spent 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**





**Q1. 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, g.name as genre_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_id
where 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	Björn	Hansen	Rock
	camille.bernard@yahoo.fr	Camille	Bernard	Rock




**Q2. 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_track
from track t
join album2 a on t.album_id=a.album_id
join artist ar on a.artist_id=ar.artist_id
where 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



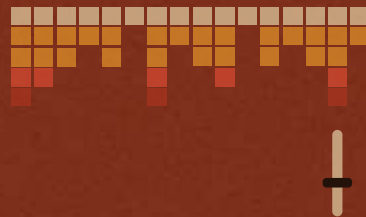
**Q3. Return all the track names that have a song length longer than the average song length.**

**Return the name and Milliseconds for each track.  
Order by the song length with the longest songs listed first.**



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

	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**


**Q1. Find how much amount spend by each customer on artists**  
**Write a query to return customer name, artist name and total spent.**

```
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_spent  
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 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;
```

	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	Stanisław Wójcik	AC/DC	9.9
	1	Luís Gonzáles	AC/DC	7.920000000000001



**Q2. 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**

```
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_1  
from 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 i.billing_country asc , count(il.quantity) desc)  
select * from a  
where rank_1 =1  
order by total_purchase desc;
```

	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



**Q3. 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**

```
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;
```

	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**