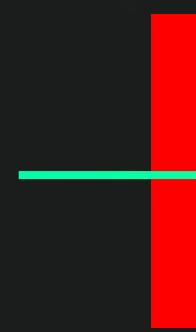




# MUSIC STORE ANALYSIS



*A SQL Project*



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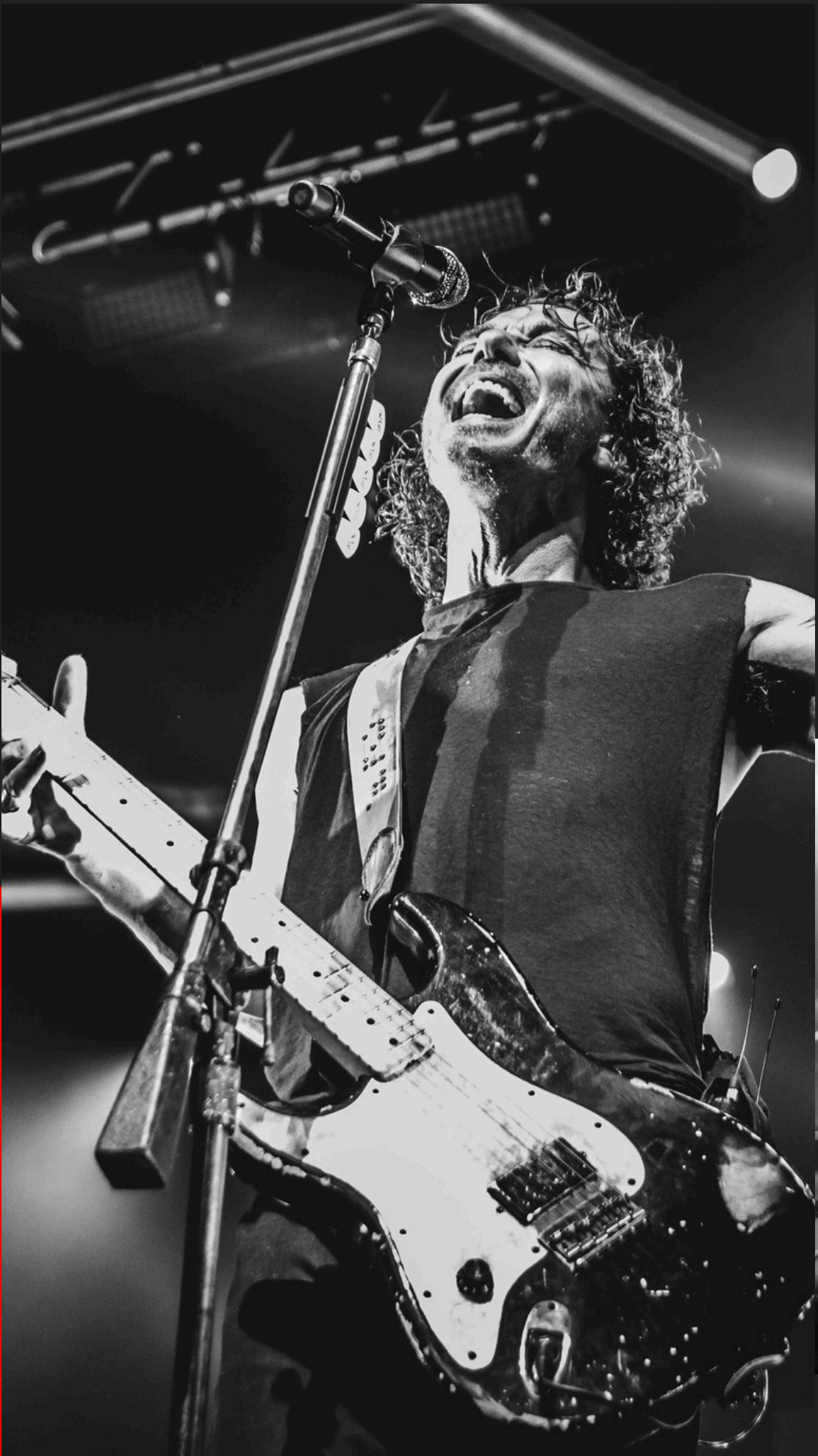


# OBJECTIVE

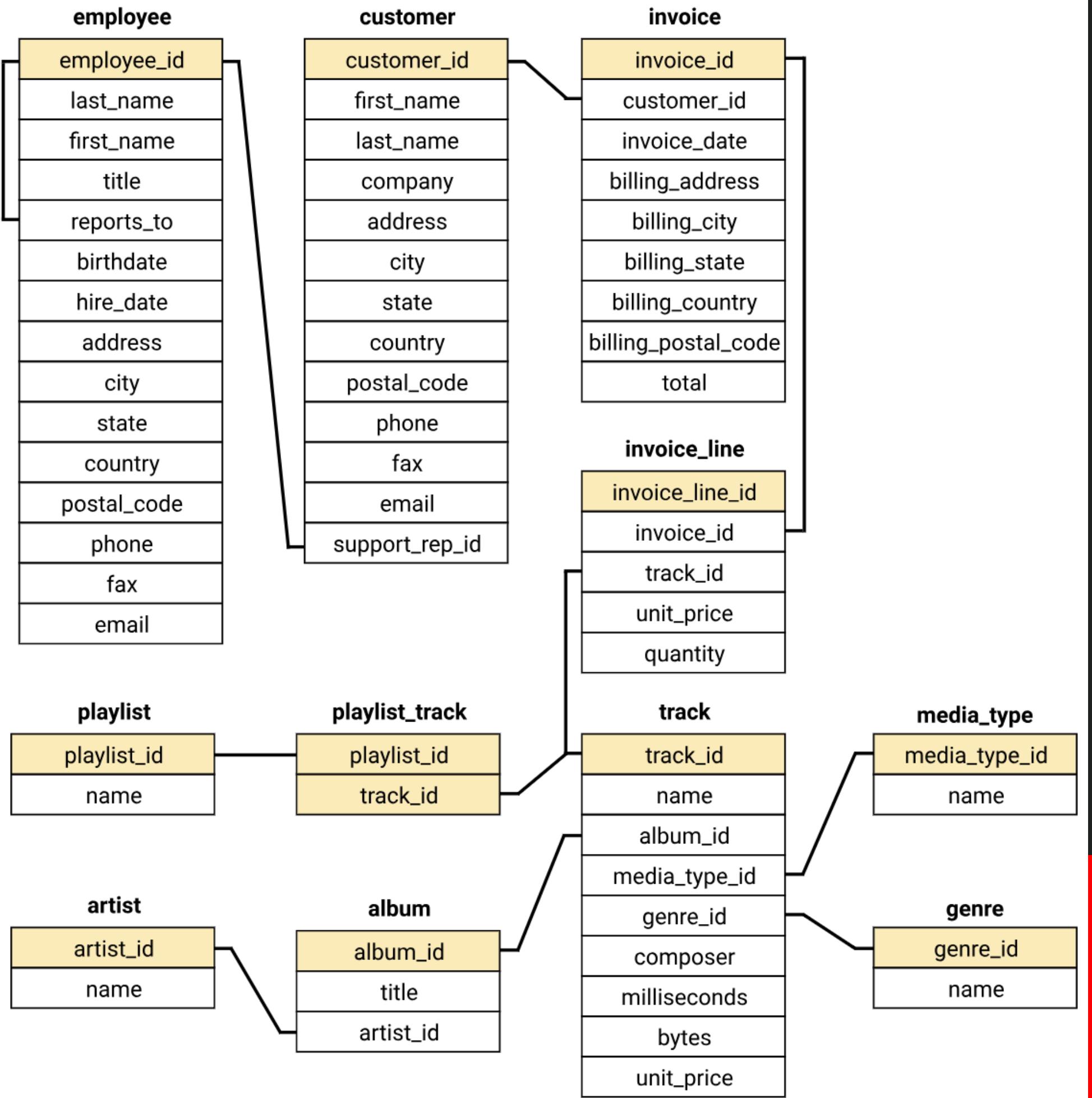
In this project , we can examine the dataset with SQL and help the store understand its business growth by answering some Questions.

## REMARK:

This project is only learning based Project.



# SCHEMA OF THE DATASET





# QUESTIONS:

Ques 1).Who is the senior most employee based on job title ?

Ques 2). Which countries have the most invoices?

Ques 3). What are top 3 values of total invoices?

Ques 4).Which city has the best customers? Write a query that returns top 10 city that has the highest sum of invoice totals. Return both the city name & sum of the invoice total?

Ques 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?

Ques 6). Lets invite the artist who have writeen 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?

Ques 7). Return all the track names that have a song length longer than the average song length. Return the Name and Miliseconds for each track. Order by the song length with the longest songs listed first.



# Ques 1: Who is the senior most employee based on job title ?



Query-

```
SELECT *FROM employee  
ORDER BY levels desc  
limit 1 ;
```

Result-

employee_id	last_name	first_name	title	reports_to	levels	birthdate	hire_date	address
1	Adams	Andrew	General Manager	9	L6	18-02-1962 00:00	14-08-2016 00:00	11120 Jasper Ave NW



## Ques 2: Which countries have the most invoices?

Query

```
SELECT COUNT(*) as c, billing_country  
from invoice  
group by billing_country  
order by c desc  
limit 1;
```

Result

c	billing_country
131	USA





# Ques 3: What are top 3 values of total invoices?



Query-

```
SELECT total FROM invoice  
order by total desc  
limit 3;
```

Result-

	total
▶	23.759999999999998
	19.8
	19.8



Ques 4: Which city has the best customers? Write a query that returns top 10 city that has the highest sum of invoice totals. Return both the city name & sum of the invoice total?

Query-

```
select sum(total) as invoice_total , billing_city  
from invoice  
GROUP BY billing_city  
ORDER BY invoice_total desc  
LIMIT 10;
```

Result-

invoice_total	billing_city
273.24000000000007	Prague
169.29	Mountain View
166.32	London
158.4	Berlin
151.47	Paris
129.69	SÃ£o Paulo
114.83999999999997	Dublin
111.86999999999999	Delhi
108.89999999999998	SÃ£o JosÃ© dos Campos
106.91999999999999	BrasÃlia





Ques 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?

### Query-

```
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, customer.first_name, customer.last_name  
ORDER BY total desc  
limit 1;
```

### Result-

customer_id	first_name	last_name	total
5	František	Wichterlová	144.54000000000002



Ques 6: Lets invite the artist who have writeen 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?

Query-

```
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
WHERE genre.name LIKE 'Rock'
GROUP BY artist.artist_id, artist.name
ORDER BY number_of_songs DESC
LIMIT 10;
```

Result-

artist_id	name	number_of_songs
18	Chico Science & NaÃ§Ã£o Zumbi	36
19	Cidade Negra	31
8	Audioslave	26
16	Caetano Veloso	21
17	Chico Buarque	20
1	AC/DC	18
11	Black Label Society	18
12	Black Sabbath	17
13	Body Count	17
21	Various Artists	17



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Ques 7:Return all the track names that have a song length longer than the average song length. Return the Name and Miliseconds for each track. Order by the song length with the longest songs listed first.

Query-



Result-

```
SELECT name, milliseconds
FROM track
WHERE milliseconds > (
    SELECT AVG(milliseconds) AS avg_track_length
    FROM track)
ORDER BY milliseconds DESC
LIMIT 5;
```

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



Thank You

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