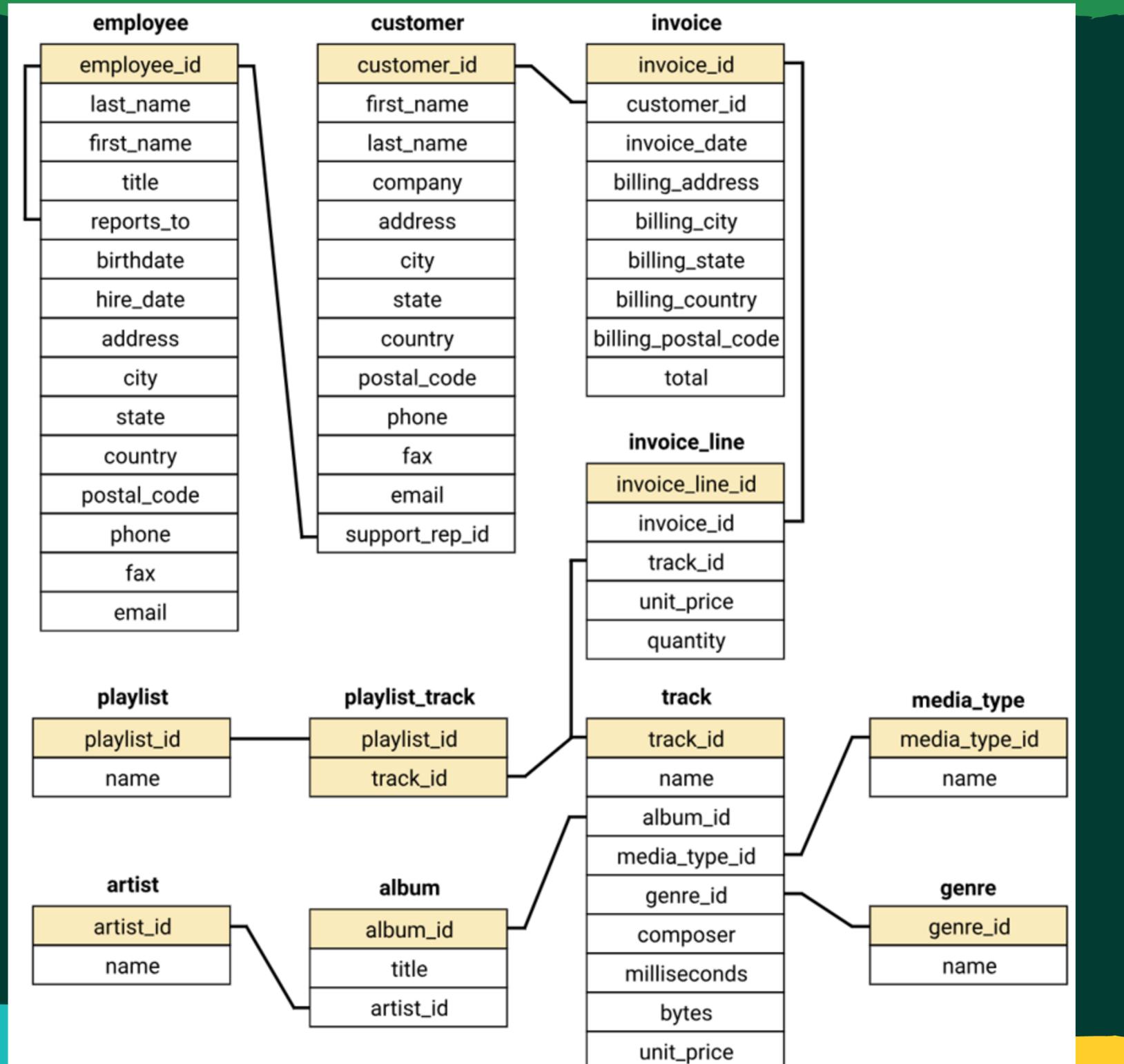


BUSINESS PROBLEM



HELLO

My name is Aman Hamza and in this project i have utilize SQL queries to solve question that will related to business problem .



Q1. Who is the senior most employee based on the job tittle .

```
select first_name ,last_name from employee order by levels desc limit 1;
```

	first_name	last_name
▶	Andrew	Adams

Q2. which countries have most invoices

```
select billing_country ,count(*) from invoice  
group by billing_country order by billing_country desc limit 1;
```

	billing_country	count(*)
▶	USA	131

Q3. What are top three values of invoices

```
select total from invoice order by total desc limit 3;
```

total
23.759999999999998
19.8
19.8

Q4. Which city has the best customers ? We would like to throw a promotional Music festival in city we made the most money.

Write a query that return one city that has the highest sum of invoices total.Return both the city name &sum of all invoice totals.

```
select billing_city ,sum(total) as invoice_total from invoice  
group by billing_city order by invoice_total desc limit 1;
```

billing_city	invoice_total
Prague	273.24000000000007

Q5. Who is the best customer ?

The customer who has spent most money will be declared the best customer .

Write a query that returns a person who has spent the most money

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

	first_name	last_name	total
>	František	Wichterlová	144.54000000000002

Q6 Write a query to return the email ,first name ,last name and genre of all rock music listeners.

Return your list order alphabetically by email staring with A.

```
select c.first_name,c.last_name,c.email,g.name  
from customer as c  
join invoice as i  
on c.customer_id = i.customer_id  
join invoice_line as pk  
on pk.invoice_id = i.invoice_id  
join track as t  
on t.track_id = pk.track_id  
join genre as g  
on g.genre_id = t.genre_id  
where g.name like 'rock'  
order by c.email asc;
```

first_name	last_name	email	name
Aaron	Mitchell	aaronmitchell@yahoo.ca	Rock
Aaron	Mitchell	aaronmitchell@yahoo.ca	Rock
Aaron	Mitchell	aaronmitchell@yahoo.ca	Rock
Aaron	Mitchell	aaronmitchell@yahoo.ca	Rock
Alexandre	Rocha	alerio@uol.com.br	Rock
Astrid	Gruher	astrid.gruher@apple.at	Rock

Q7 Return all the track names that have a song length longer than the average song length.

Return the name and Millisecond for each track . order by the song with the longest songs listed first .

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

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

**FOR YOUR
ATTENTION**

