



Yash Vashishtha

SQL PROJECT 1

Music_DataBase_Project



Automatic video captions available.



• Database

Database is a collection of table that contains the valuable information that is going to used in formation of project and company analysis.

In which SQL is the source where we are going to write or read the table in database



Executive Summary

Table Name : ALBUM

album_id

title

artist_id

Table Name : CUSTOMER



customer_id

first_name

last_name

company

address

city

state

postal_Code, phone, fax, email, support_rep_id

Executive Summary

Table Name : EMPLOYEE

employee_id

first_name

last_name

title, reports_to, levels, birthdate, hire_date, country

address

city

state

postal_Code, phone, fax, email

Executive Summary

Table Name : INVOICE



Executive Summary

invoice_id

customer-id

invoice_date

billing_address

billing_city

billing_state

billing_country

billing_postal, total

Table Name : TRACK



Executive Summary

track_id

name

album_id

media_type_id

genre_id

composer

millisecond

bytes, unit_price

Table Name : INVOICE_LINE

invoice_line_id

invoice_id

track_id

unit_price

quantity

Executive Summary



Executive summary

Table Name : ARTIST

artist_id

name



Executive summary

Table Name : GENRE

genre_id

name



Table Name : MEDIA_TYPE

media_type_id

name

Executive summary



Executive summary

Table Name : PLAYLIST

playlist_id

name

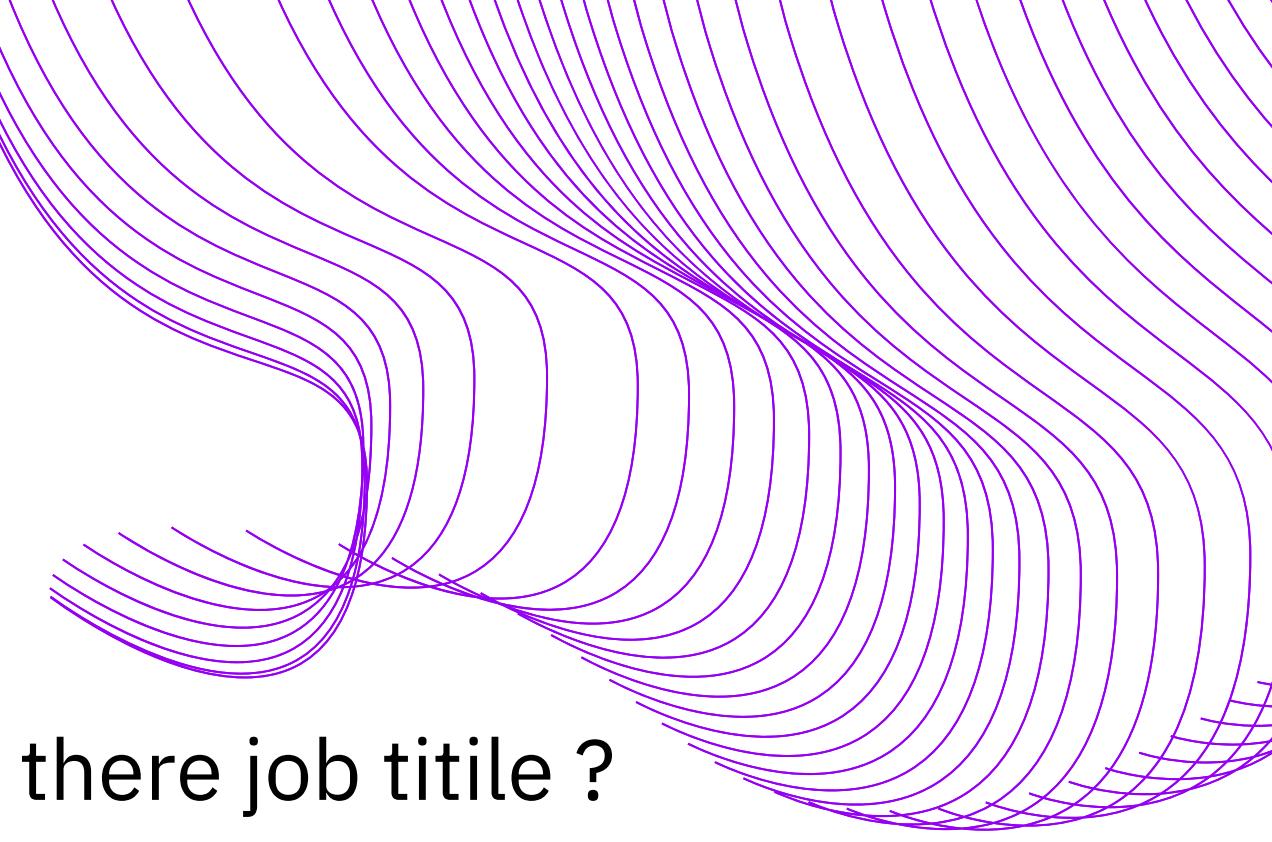


Executive summary

Table Name : PLAYLIST_TRACK

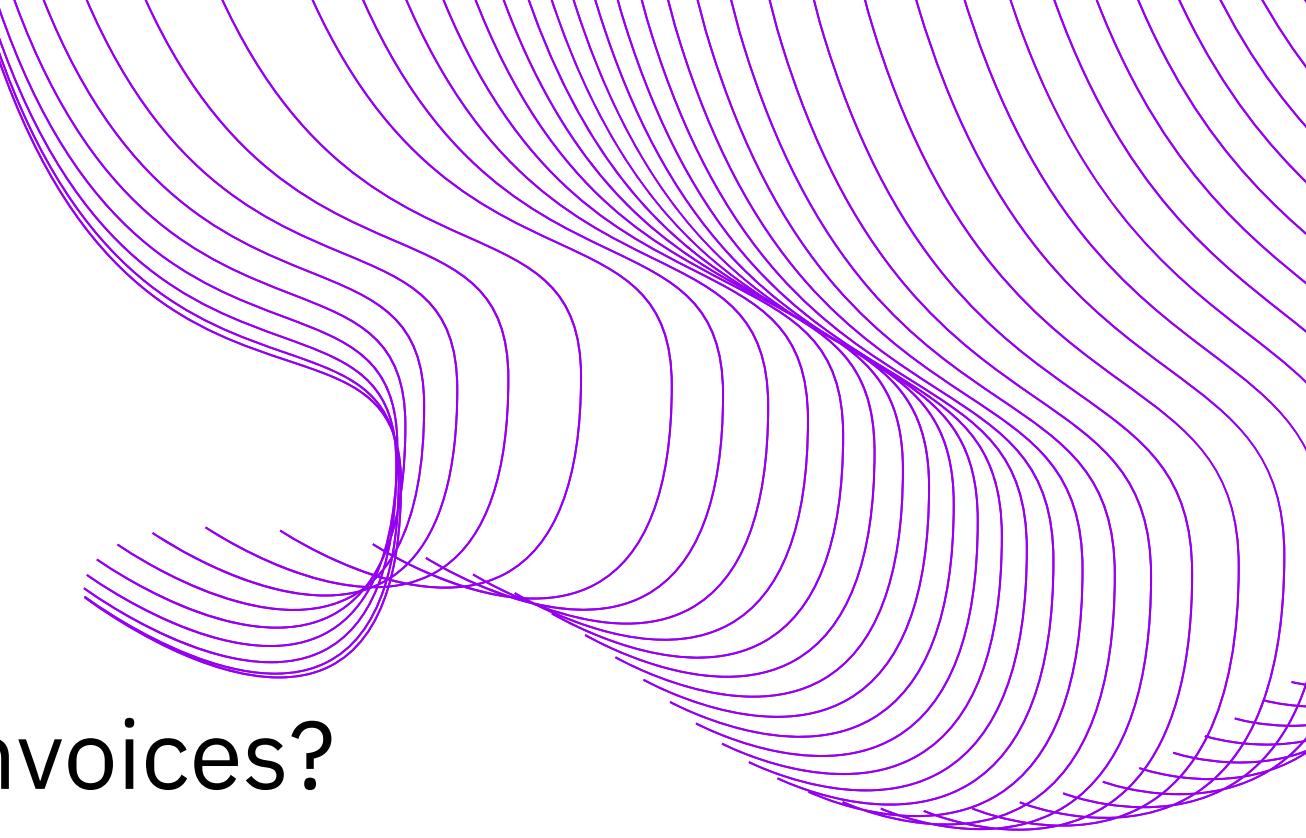
playlist_id

track_id



Question 1: Who is the most senior employeee based on there job titile ?

```
SELECT *  
FROM employee  
ORDER BY levels DESC  
LIMIT 1;
```



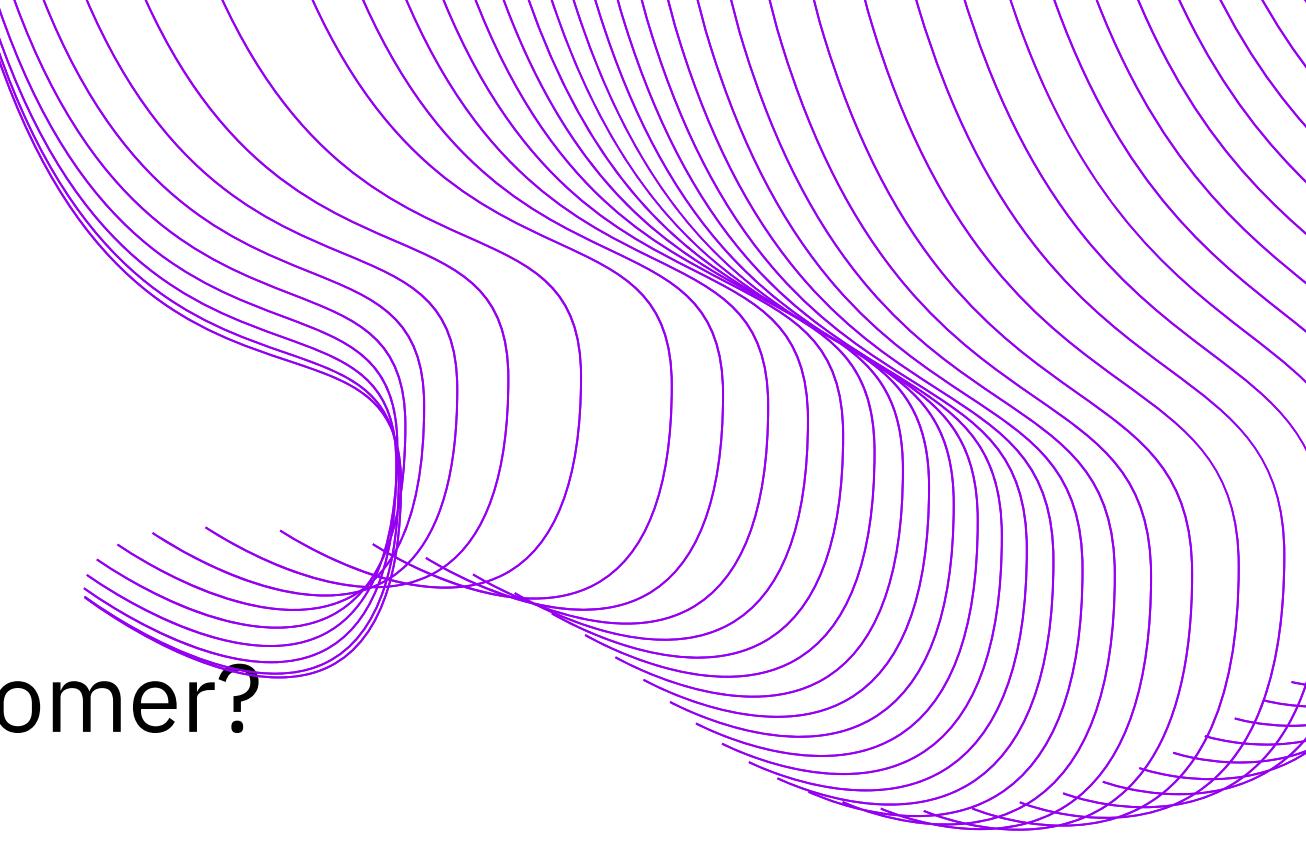
Question 2: Which country has the most invoices?

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



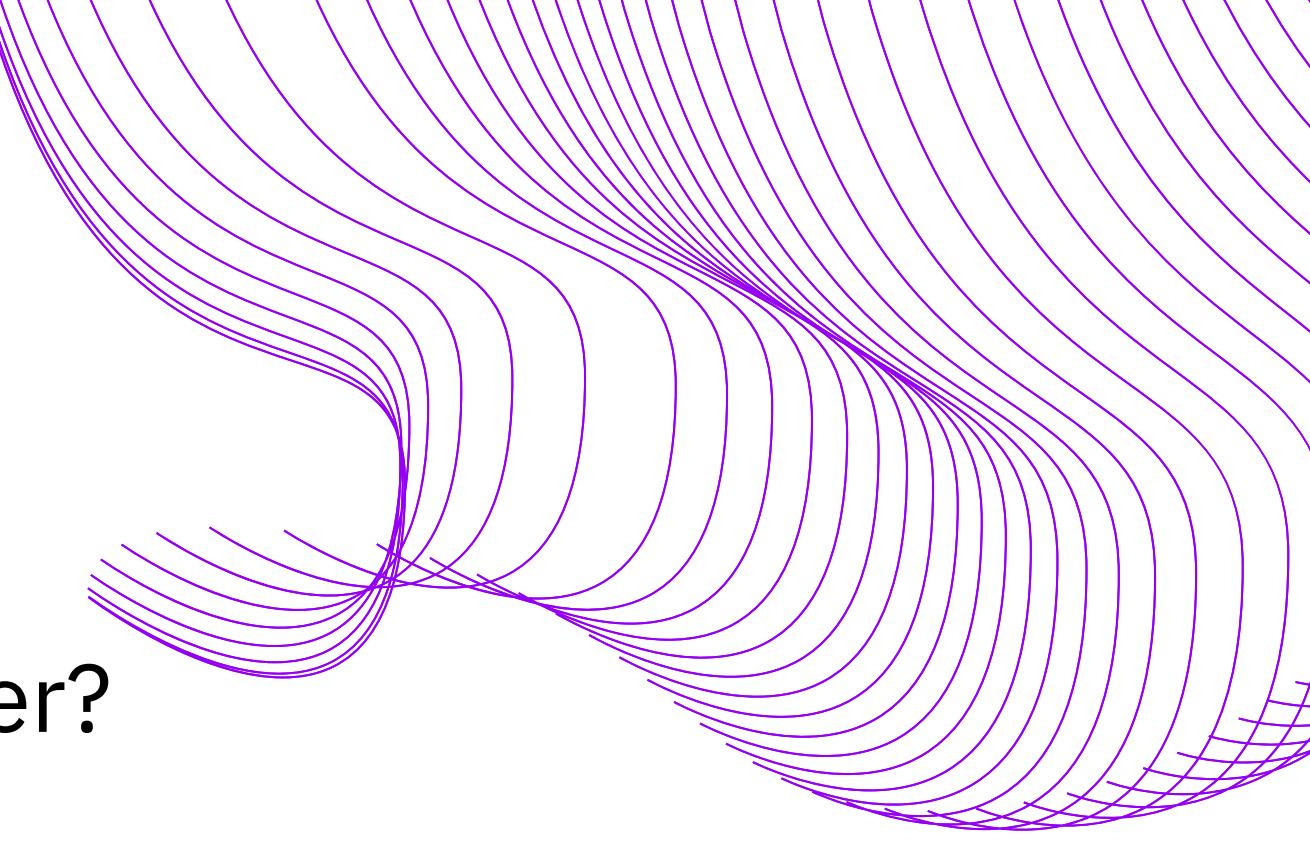
Question 3: What are the top 3 values of total_invoices?

```
SELECT total FROM invoice  
ORDER BY total DESC  
LIMIT 3;
```



Question 4: Which city has the best customer?

```
SELECT SUM(total) AS total_invoices, billing_city  
FROM invoice  
GROUP BY billing_city  
ORDER BY total_invoices DESC  
LIMIT 1;
```



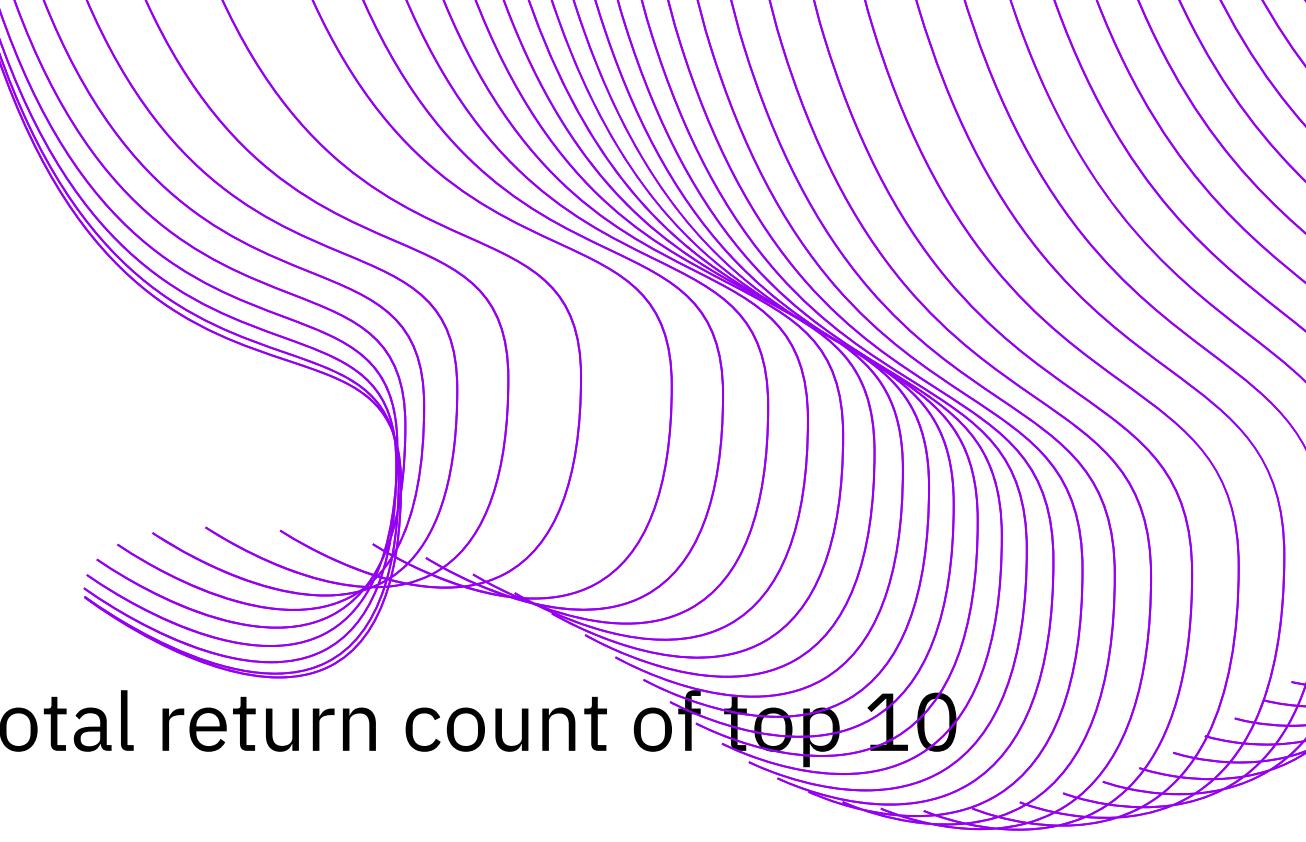
Question 5: Who is the best customer?

```
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  
ORDER BY total DESC  
LIMIT 1;
```



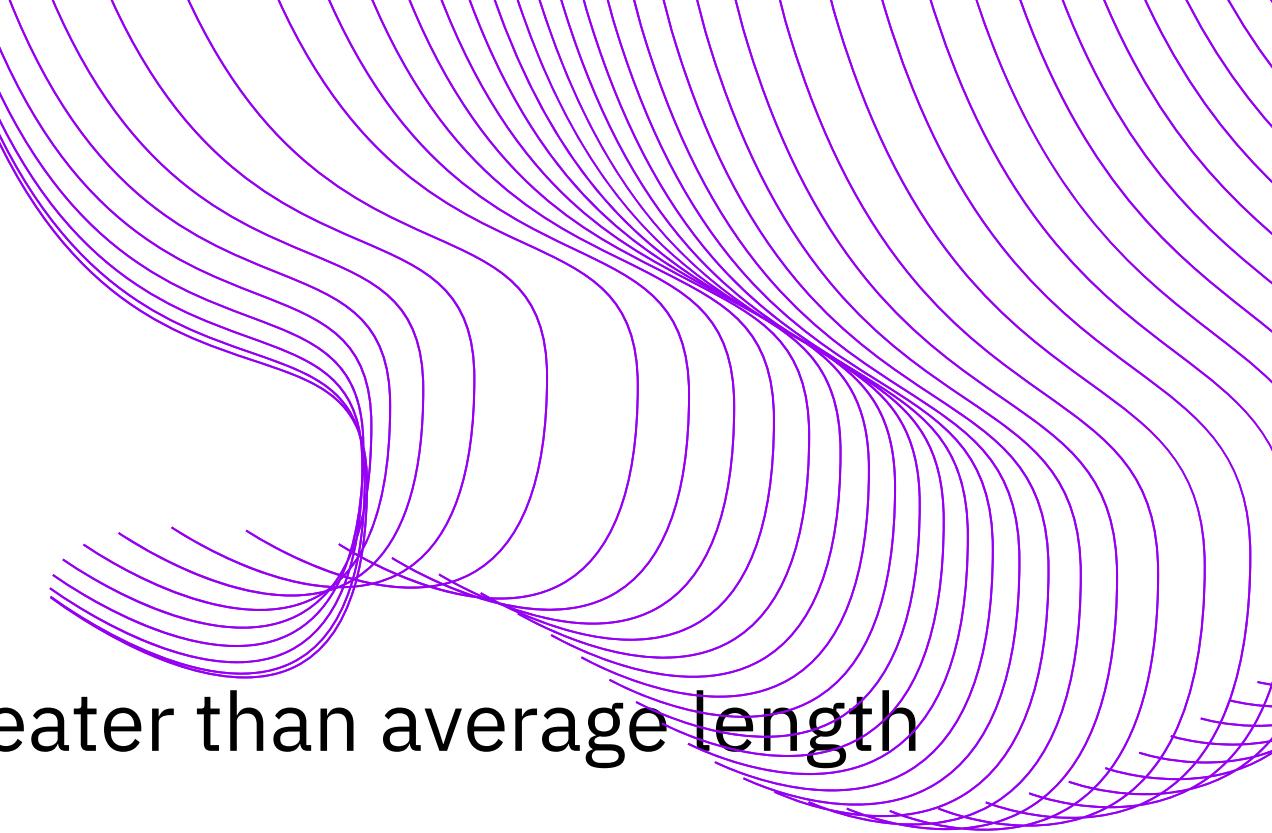
Question 6: Return your list ordered alphabetically by email starting with A

```
SELECT customer.email, customer.first_name, customer.last_name  
FROM customer JOIN invoice  
ON customer.customer_id = invoice.customer_id  
JOIN invoice_line  
ON invoice.invoice_id = invoice_line.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;
```



Question 7: Write a query that return the artist name and total return count of top 10 rock bands?

```
SELECT artist.artist_id, artist.name, COUNT(artist.artist_id) AS Number_Of_Songs  
FROM artist  
JOIN album ON artist.artist_id = album.artist_id  
JOIN track ON album.album_id = track.album_id  
JOIN genre ON track.genre_id = genre.genre_id  
WHERE genre.name LIKE 'Rock'  
GROUP BY artist.artist_id  
ORDER BY Number_Of_Songs  
LIMIT 10;
```



Question 8 : Return all the name that have a song a length greater than average length

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