



MUSIC DATABASE ANALYSIS

SQL PROJECT






ABOUT ME

My name is Sahil Gawai a fresher data analyst with a strong foundation in SQL and data analysis. I have worked on a project where I utilized SQL queries to solve questions related to a music playlist analysis on a music playlist database. This project helped me develop my skills in data extraction, transformation, and analysis, enabling me to uncover valuable insights from complex datasets.

Q1: WHO IS THE SENIOR MOST EMPLOYEE BASED ON JOB TITLE?

```
3
4 ● SELECT title, last_name, first_name
5 FROM employee
6 ORDER BY levels DESC
7 LIMIT 1;
8
```

Result Grid   Filter Rows: <input type="text"/>			
	title	last_name	first_name
▶	General Manager	Adams	Andrew
employee 1 x 			

Q2: WHICH COUNTRIES HAVE THE MOST INVOICES?

```
12 • SELECT COUNT(*) AS c, billing_country
13 FROM invoice
14 GROUP BY billing_country
15 ORDER BY c DESC;
16
```



Result Grid |   Filter Rows

	c	billing_country
▶	131	USA
	76	Canada
	61	Brazil
	50	France
	41	Germany

Result 3 ✕

Q3: WHAT ARE TOP 3 VALUES OF TOTAL INVOICE?

```
20 • SELECT total
21 FROM invoice
22 ORDER BY total DESC
23 LIMIT 3;
24
```

Result Grid |  Filter Rows: 

	total
▶	23.759999999999998
	19.8
	19.8

Q4: WHICH CITY HAS THE BEST CUSTOMERS? WE WOULD LIKE TO THROW A PROMOTIONAL MUSIC FESTIVAL IN THE CITY WE MADE THE MOST MONEY. 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

```
28
29 • SELECT billing_city, SUM(total) AS InvoiceTotal
30 FROM invoice
31 GROUP BY billing_city
32 ORDER BY InvoiceTotal DESC
33 LIMIT 1;
34
35
```

Result Grid		Filter Rows:	
	billing_city	InvoiceTotal	
▶	Prague	273.240000000000007	

Result 5 ×

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 THE MOST MONEY

```
39 • SELECT customer.customer_id, first_name, last_name, SUM(total) AS total_spending
40 FROM customer
41 JOIN invoice ON customer.customer_id = invoice.customer_id
42 GROUP BY customer.customer_id, first_name, last_name
43 ORDER BY total_spending DESC
44 LIMIT 1;
```

Result Grid |  Filter Rows: | Export:  | Wrap Cell Contents

	customer_id	first_name	last_name	total_spending
▶	5	František	Wichterlovský	144.54000000000002

Result 7 x

Q6: WRITE 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.

```
50 • SELECT DISTINCT email,first_name, last_name
51 FROM customer
52 JOIN invoice ON customer.customer_id = invoice.customer_id
53 JOIN invoice_line ON invoice.invoice_id = invoice_line.invoice_id
54 WHERE track_id IN(
55     SELECT track_id FROM track
56     JOIN genre ON track.genre_id = genre.genre_id
57     WHERE genre.name LIKE 'Rock'
58 )
59 ORDER BY email;
```

Result Grid | Filter Rows: | Export:

	email	first_name	last_name
▶	aaronmitchell@yahoo.ca	Aaron	Mitchell
	alero@uol.com.br	Alexandre	Rocha
	astrid.gruber@apple.at	Astrid	Gruber
	bjorn.hansen@yahoo.no	Björn	Hansen
	camille.bernard@yahoo.fr	Camille	Bernard
	daan_peeters@apple.be	Daan	Peeters
	diego.gutierrez@yahoo.ar	Diego	Gutiérrez
	dmiller@comcast.com	Dan	Miller
	dominiquelefevre@gmail.com	Dominique	Lefevre

Result 9 ✕

**Q7: LET'S INVITE THE ARTISTS WHO HAVE WRITTEN 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.**



```
63
64 • SELECT artist.artist_id, artist.name, COUNT(artist.artist_id) AS number_of_songs
65 FROM track
66 JOIN album2 ON album2.album_id = track.album_id
67 JOIN artist ON artist.artist_id = album2.artist_id
68 JOIN genre ON genre.genre_id = track.genre_id
69 WHERE genre.name LIKE 'Rock'
70 GROUP BY artist.artist_id, artist.name
71 ORDER BY number_of_songs DESC
72 LIMIT 10;
```

	artist_id	name	number_of_songs
▶	1	AC/DC	18
	3	Aerosmith	15
	8	Audioslave	14
	22	Led Zeppelin	14
	4	Alanis Morissette	13
	5	Alice In Chains	12
	23	Frank Zappa & Captain Beefheart	9
	2	Accept	4

Q8: 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.

```
77 • SELECT * FROM track;
78 • SELECT name,milliseconds
79 FROM track
80 WHERE milliseconds > (
81     SELECT AVG(milliseconds) AS avg_track_length
82     FROM track )
83 ORDER BY milliseconds DESC;
```

Result Grid |  Filter Rows: Export: 

	name	milliseconds
	No More Tears	555075
	The Alchemist	509413
	Wheels Of Confusion / The Straightener	494524
	Book Of Thel	494393
	You Oughta Know (Alternate)	491885
	Terra	482429
	Snoopy's search-Red baron	456071
	Sozinho (Hitmakers Classic Mix)	436636
	Master Of Puppets	436453
	Stone Crazy	433397

track 15 ×