



## AUSIC ANALYSIS



MUSIC FOR YOUR SOUL







## TABLE OF SCHEMA



**ALBUM** 

**ARTIST** 

**CUSTOMER** 

**EMPLOYEE** 

**GENRE** 

**INVOICE** 

INVOICE\_LINE

**MEDIA\_TYPE** 

**PLAYLIST** 

PLAYLIST\_TRACK

**TRACK** 





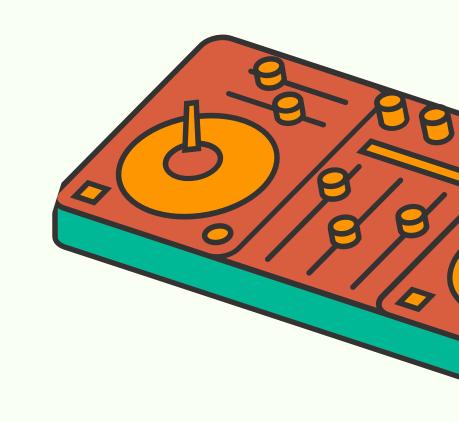


# 

Hi, I am parwez Alam, am i work on the project of music store analysis using

# OUR MISSION

**Our Mission to Analysis the Music** Store to corelated with the Table of Schema with help of the **SQL Query** 





#### Basic

## Q: WHO IS THE SENIOR MOST EMPLYOEE BASED ON JOB TITLE?

SELECT \* FROM EMPLOYEE

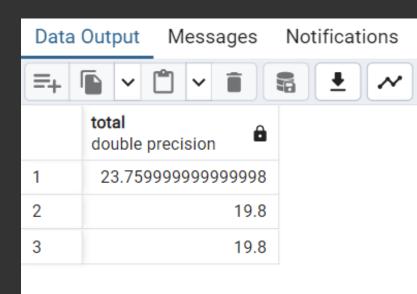
ORDER BY LEVELS DESC LIMIT 1

	employee_id [PK] character varying (50)	last_name character	first_name character	title character varying (50)			
1	9	Madan	Mohan	Senior General Manager			

## Q: WHAT ARE TOP 3 VALUES OF TOTAL INVOICES?

SELECT TOTAL FROM INVOICE

#### ORDER BY TOTAL DESC LIMIT 3







#### Q: 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.

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

Data Output Messages Notifications						
	customer_id [PK] integer	first_name character	last_name character	<i>&gt;</i>	total double precision	
1	5	R	Madhav		144.540000000000002	





#### Moderate



Q: LET'S INVITE THE ARTISTS WHO HAVE WITTEN THE MOST ROCK MUSIC IN OUR DATASET. WRITE A QUERY THAT RETURN THE ARTIST NAME AND TOTAL TRACK COUNT OF THE TOP 5 ROCK BANDS

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 = TRACK.GENRE\_ID

WHERE GENRE.NAME LIKE 'ROCK'

GROUP BY ARTIST\_ARTIST\_ID

ORDER BY NUMBER\_OF\_SONGS DESC

LIMIT 5:

Data Output Messages Notifications						
	artist_id [PK] character varying (50)	name character varying (120)	number_of_songs bigint			
1	22	Led Zeppelin	114			
2	150	U2	112			
3	58	Deep Purple	92			
4	90	Iron Maiden	81			
5	118	Pearl Jam	54			

Q: RETURN ALL THE TRACK NAMES THAT HAVE A SONG LENGTH LONGEER 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, MILLISECONDS
FROM TRACK
WHERE MILLISECONDS > (
SELECT AVG(MILLISECONDS) AS AVG\_TRACK\_LENGTH
FROM TRACK)
ORDER BY MILLISECONDS DESC;

-- SECOND METHOD

SELECT NAME, MILLISECONDS

FROM TRACK

WHERE MILLISECONDS > 393599

ORDER BY MILLISECONDS DESC;

D	No. of Market and Mark					
Data C	Data Output Messages Notifications					
=+ [						
	name character varying (150)	milliseconds integer				
1	Occupation / Precipice					
2	Through a Looking Glass					
3	Greetings from Earth, Pt. 1					
4	The Man With Nine Lives	2956998				
5	Battlestar Galactica, Pt. 2	2956081				
6	Battlestar Galactica, Pt. 1	2952702				

#### Advance

## Q:FIND HOW MUCH AMOUNT SPENT BY EACH CUSTOMER ON ARTISTS? WRITE A QUERY TO RETURN CUSTOMER NAME, ARTIST NAME AND TOTAL SPENT

```
WITH BEST_SELLING_ARTIST AS (
SELECT ARTIST_ARTIST_ID AS ARTIST_ID, ARTIST NAME AS ARTIST_NAME, SUM(INVOICE_LINE.UNIT_PRICE * INVOICE_LINE.QUANTITY) AS TOTAL_SALES
         JOIN TRACK ON TRACK_TRACK_ID = INVOICE_LINE.TRACK_ID
            JOIN ALBUM ON ALBUM_ALBUM_ID = TRACK_ALBUM_ID
            JOIN ARTIST ON ARTIST_ARTIST_ID = ALBUM_ARTIST_ID
                                  GROUP BY 1
                               ORDER BY 3 DESC
SELECT C.CUSTOMER_ID , C.FIRST_NAME , C.LAST_NAME , BSA.ARTIST_NAME , SUM(IL.UNIT_PRICE*IL.QUANTITY) AS AMOUNT_SPENT
           JOIN CUSTOMER C ON C.CUSTOMER_ID = 1.CUSTOMER_ID
          JOIN INVOICE_LINE IL ON IL.INVOICE_ID = 1.INVOICE_ID
                 JOIN TRACK T ON T.TRACK_ID = IL.TRACK_ID
              JOIN ALBUM ALB ON ALB.ALBUM_ID = T.ALBUM_ID
    JOIN BEST_SELLING_ARTIST BSA ON BSA.ARTIST_ID = ALB.ARTIST_ID
```

### Output

Data	Data Output Messages Notifications						
=+							
	customer_id integer	first_name character	last_name character	artist_name character varying (120)	amount_spent double precision		
1	46	Hugh	O'Reilly	Queen	27.71999999999985		
2	38	Niklas	Schröder	Queen	18.81		
3	3	François	Tremblay	Queen	17.82		
4	34	João	Fernandes	Queen	16.8300000000000002		
5	53	Phil	Hughes	Queen	11.88		
6	41	Marc	Dubois	Queen	11.88		
7	47	Lucas	Mancini	Queen	10.89		
8	33	Ellie	Sullivan	Oueen	10.89		

Q3: WRITE A QUERY THAT DETERMINES THE CUSTOMER THAT HAS SPENT THE MOST ON MUSIC FOR EACH COUNTRY. WRITE A QUERY THAT RETURNS THE COUNTRY ALONG WITH THE TOP CUSTOMER AND HOW MUCH THEY SPENT. FOR COUNTRIES WHERE THE TOP AMOUNT SPENT IS SHARRED, PROVIDED ALL CUSTOMERS WHO SPENT THIS AMOUNT.

WITH RECURSIVE CUSTOMER\_WITH\_COUNTRY AS ( SELECT CUSTOMER\_CUSTOMER\_ID,FIRST\_NAME,LAST\_NAME,BILLING\_COUNTRY,
SUM(TOTAL) AS TOTAL\_SPENDING JOIN CUSTOMER ON CUSTOMER.CUSTOMER\_ID = INVOICE.CUSTOMER\_ID **GROUP BY 1.2.3.4** ORDER BY 2.3 DESC). COUNTRY\_MAX\_SPENDING AS( SELECT BILLING\_COUNTRY.MAX(TOTAL\_SPENDING) AS MAX\_SPENDING FROM CUSTOMER\_WITH\_COUNTRY GROUP BY BILLING\_COUNTRY) SELECT CC.BILLING\_COUNTRY, CC.TOTAL\_SPENDING, CC.FIRST\_NAME, CC.LAST\_NAME, CC.CUSTOMER\_ID FROM CUSTOMER\_WITH\_COUNTRY CC JOIN COUNTRY\_MAX\_SPENDING MS ON CC.BILLING\_COUNTRY = MS.BILLING\_COUNTRY

### Output

Data	Data Output Messages Notifications							
=+								
	billing_country character varying (30)	total_spending double precision	first_name character	last_name character	customer_id integer			
1	Canada	70.2899999999999	Aaron	Mitchell	32			
2	Brazil	69.3	Alexandre	Rocha	11			
3	Austria	69.3	Astrid	Gruber	7			
4	Norway	72.27000000000001	Bjørn	Hansen	4			
5	France	79.2	Camille	Bernard	39			
6	Belgium	60.38999999999999	Daan	Peeters	8			
7	USA	95.0399999999999	Dan	Miller	20			
8	Argentina	39.6	Diego	Gutiérrez	56			
9	France	72.27	Dominique	Lefebvre	40			
10	Brazil	60.39	Eduardo	Martins	10			
11	Canada	91.08	Edward	Francis	30			
12	Canada	75.24000000000001	Ellie	Sullivan	33			
13	United Kingdom	68.31	Emma	Jones	52			
14	Spain	98.01	Enrique	Muñoz	50			
15	Brazil	106.91999999999999	Fernanda	Ramos	13			
16	Canada	99.99	François	Tremblay	3			
17	USA	71.28	Frank	Ralston	24			
18	USA	74.25	Frank	Harris	16			
19	Germany	94.05000000000001	Fynn	Zimmermann	37			
20	Germany	85.14	Hannah	Schneider	36			
21	USA	92.07000000000001	Heather	Leacock	22			





# THANKS HEAPS!





