



Music Store Sales Data

SQL Project by Yuvraj Giri

Introduction

This is the database of Music store having 10 tables on it.

Tables like album, artist, customer, employee, genre, invoice, invoice_line, playlist, playlist_track and track.

Introducing Myself

My name is Yuvraj Giri. My aim is to be a Data Analyst. Currently I'm learning SQL and have upper intermediate skills. This is my Second Project of Music Store Sales. I've included various questions on this project which will be beneficial for making data driven business decisions and extracting meaningful insights from this.

```
1 --Top 5 Customers with Highest Total Purchases
2 SELECT
3     c.first_name,
4     c.last_name,
5     ROUND(SUM(il.unit_price * il.quantity)::NUMERIC,2)
6         AS Total_Purchase
7 FROM invoice_line il
8 JOIN invoice
9     ON invoice.invoice_id = il.invoice_id
10 JOIN customer c
11     ON c.customer_id = invoice.customer_id
12 GROUP BY 1,2
13 ORDER BY 3 DESC
14 LIMIT 5
```

01



	first_name character (50)	last_name character (50)	total_purchase numeric
1	R	Madhav	144.54
2	Helena	Holý	128.70
3	Hugh	O'Reilly	114.84
4	Manoj	Pareek	111.87
5	Luís	Gonçalves	108.90

02



```
1 --Top 5 Most Active Playlists
2 ✓ SELECT
3     p.name AS Playlist_Name,
4     COUNT(track.track_id)
5     AS Total_track
6 FROM playlist p
7 JOIN playlist_track pt
8     ON pt.playlist_id = p.playlist_id
9 JOIN track
10    ON track.track_id = pt.track_id
11 GROUP BY 1
12 ORDER BY 2 DESC
13 LIMIT 5
```

	playlist_name	total_track
1	Music	6580
2	90's Music	1477
3	TV Shows	426
4	Classical	75
5	Brazilian Music	39

```
1 -- Top 5 album with highest number of track
2 SELECT
3     a.title AS Album_Name,
4     COUNT(t.track_id)
5         AS Total_track
6 FROM album a
7 JOIN track t
8     ON t.album_id = a.album_id
9 GROUP BY 1
10 ORDER BY 2 DESC
11 LIMIT 5
```



03

	album_name	total_track
1	Greatest Hits	57
2	Minha Historia	34
3	Unplugged	30
4	Lost, Season 3	26
5	The Office, Season 3	25

04



```

1 -- List All Playlists and Their Top Associated Tracks by Total Sales
2 WITH my AS
3 (
4   SELECT
5     p.name AS Playlist_Name,
6     t.name AS Track_name,
7     ROUND(SUM(il.unit_price * il.quantity)::NUMERIC,2)
8       AS Total_sales,
9   DENSE_RANK()
10    OVER(PARTITION BY p.name
11      ORDER BY ROUND(SUM(il.unit_price * il.quantity)::NUMERIC,2) DESC )
12      AS rank
13   FROM playlist p
14   JOIN playlist_track pt
15     ON pt.playlist_id=p.playlist_id
16   JOIN track t
17     ON t.track_id=pt.track_id
18   JOIN invoice_line il
19     ON il.track_id=t.track_id
20   GROUP BY 1,2)
21
22   SELECT
23     playlist_name,
24     track_name,
25     Total_sales
26   FROM my
27   WHERE Rank=1
28   ORDER BY 1

```

	playlist_name character varying (120)	track_name character varying (150)	total_sales numeric
1	90's Music	Drain You	11.88
2	Brazilian Music	Odara	0.99
3	Brazilian Music	A Novidade	0.99
4	Brazilian Music	Vai Passar	0.99
5	Brazilian Music	Maria, Maria	0.99
6	Brazilian Music	Filho Maravilha	0.99
7	Classical	24 Caprices, Op. 1, No. 24, for Solo Violin, in A Min...	7.92
8	Classical	Das Lied Von Der Erde, Von Der Jugend	7.92
9	Classical	Turandot, Act III, Nessun dorma!	7.92
10	Classical 101 - Deep Cuts	24 Caprices, Op. 1, No. 24, for Solo Violin, in A Min...	7.92
11	Classical 101 - Next Steps	Das Lied Von Der Erde, Von Der Jugend	7.92
12	Classical 101 - The Basics	Turandot, Act III, Nessun dorma!	7.92
13	Grunge	On A Plain	5.94
14	Grunge	In Bloom	5.94
15	Heavy Metal Classic	For Those About To Rock (We Salute You)	7.92

```
1 --Customers with More than 12 Purchases
2 ✓ SELECT
3     c.first_name,
4     c.last_name,
5     COUNT(i.invoice_id)
6         AS Total_Purchase_Count
7 FROM customer c
8 JOIN invoice i
9     ON i.customer_id = c.customer_id
10 GROUP BY 1,2
11     HAVING COUNT(i.invoice_id) >12
```

05



	first_name character (50)	last_name character (50)	total_purchase_count bigint
1	Manoj	Pareek	13
2	Fernanda	Ramos	15
3	R	Madhav	18
4	Luís	Gonçalves	13
5	Luis	Rojas	13
6	Madalena	Sampaio	16
7	Edward	Francis	13
8	João	Fernandes	13
9	Hugh	O'Reilly	13

06

```

1 --Most repeated track for top 3 country
2 WITH my AS (SELECT
3     c.country,
4     t.name AS Track_name,
5     COUNT(t.name)
6     AS Repeat_count,
7     DENSE_RANK()
7         OVER(PARTITION BY c.country
8             ORDER BY COUNT(t.name) DESC) AS Rank
9
10    FROM customer c
11    JOIN invoice i
11        ON i.customer_id = c.customer_id
12
13    JOIN invoice_line il
14        ON il.invoice_id = i.invoice_id
15
16    JOIN track t
16        ON t.track_id = il.track_id
17
17    GROUP BY 1,2
18
18    ORDER BY 2 DESC)
19
20
20    SELECT
21        country,
22        track_name,
23        repeat_count
24
24    FROM my
25    WHERE rank=1
26
26    ORDER BY 3 DESC
27
27    LIMIT 3

```

	country character varying (50)	track_name character varying (150)	repeat_count bigint
1	USA	War Pigs	7
2	France	Tease Me Please Me	4
3	Germany	I Can't Explain	4



```
1 -- Employees id with number of sales
2 ✓ SELECT
3     c.support_rep_id
4         AS Employee_id,
5     COUNT(i.invoice_id)
6         AS Total_Sales_count
7 FROM customer c
8 JOIN invoice i
9     ON i.customer_id = c.customer_id
10 GROUP BY 1
11 ORDER BY 2 DESC
```

07



employee_id	total_sales_count
integer	bigint
1	4
2	3
3	5
	214
	212
	188

```

1 -- Famous artist for each Country
2 WITH MY AS
3 (
4 SELECT
5     c.country,
6     artist.name AS Artist_name,
7     COUNT(a.artist_id)
8     AS Repeat_count,
9     DENSE_RANK()
10    OVER(PARTITION BY c.country
11    ORDER BY COUNT(a.artist_id) DESC)
12    AS rank
13 FROM customer c
14 JOIN invoice i
15    ON i.customer_id = c.customer_id
16 JOIN invoice_line il
17    ON il.invoice_id = i.invoice_id
18 JOIN track t
19    ON t.track_id = il.track_id
20 JOIN album a
21    ON a.album_id = t.album_id
22 JOIN artist
23    ON artist.artist_id = a.artist_id
24 GROUP BY 1,2)

25
26 SELECT
27     country,
28     artist_name,
29     repeat_count
30 FROM my
31 WHERE rank=1
32 ORDER BY 3 DESC

```

08



	country character varying (50)	artist_name character varying (120)	repeat_count bigint
1	USA	Van Halen	43
2	Canada	Queen	36
3	Brazil	Metallica	36
4	France	Frank Sinatra	29
5	United Kingdom	AC/DC	29
6	Ireland	Queen	28
7	Portugal	Jimi Hendrix	22
8	Czech Republic	Kiss	21
9	Germany	Queen	21
10	Hungary	The Cult	18
11	Australia	The Clash	18
12	India	O Rappa	18
13	Sweden	Soundgarden	17
14	Spain	Jimi Hendrix	17
15	Italy	The Rolling Stones	16
16	Chile	Red Hot Chili Peppers	15
17	Austria	Miles Davis	15
18	Argentina	Green Day	14
19	Finland	The Police	14
20	Netherlands	Amy Winehouse	13
21	Norway	Guns N' Roses	12
22	Belgium	Godsmack	12
23	Poland	Buddy Guy	11
24	Danmark	Jamiroquai	4

Total rows: 24 of 24

Query complete 00:00:00.206

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09



```
1 -- Top 5 Best-Selling Tracks
2 SELECT
3     track.name AS Track_name,
4     SUM(il.quantity)
5     AS Total_Sales_Quantity
6 FROM invoice_line il
7 JOIN track
8     ON track.track_id=il.track_id
9 GROUP BY 1
10 ORDER BY 2 DESC
11 LIMIT 5
```

	track_name	total_sales_quantity
1	War Pigs	33
2	Changes	14
3	Are You Experienced?	14
4	Highway Chile	14
5	Hey Joe	13

10



```
1 -- Top 5 Most Popular Albums
2 ✓ SELECT
3     album.title AS Album_Name,
4     ROUND(SUM(il.unit_price *
5         il.quantity)::NUMERIC,2)
6     AS Total_Sales
7 FROM invoice_line il
8 JOIN track
9     ON track.track_id=il.track_id
10 JOIN album
11     ON album.album_id=track.album_id
12 GROUP BY 1
13 ORDER BY 2 DESC
14 LIMIT 5
```

	album_name	total_sales
1	Are You Experienced?	185.13
2	Faceless	95.04
3	Mezmerize	92.07
4	Get Born	89.10
5	The Doors	82.17

```

1 --Top 5 Most Purchased Genres
2 SELECT
3     genre.name AS Genre_Name,
4     ROUND(SUM(il.unit_price * il.quantity)::NUMERIC,2)
5         AS Total_Purchases
6 FROM invoice_line il
7 JOIN track
8     ON track.track_id=il.track_id
9 JOIN genre
10    ON genre.genre_id=track.genre_id
11 GROUP BY 1
12 ORDER BY 2 DESC
13 LIMIT 5

```



11

	genre_name	total_purchases
	character varying (120)	numeric
1	Rock	2608.65
2	Metal	612.81
3	Alternative & Punk	487.08
4	Latin	165.33
5	R&B/Soul	157.41



A man with white hair and a blue headband is sitting at a black keyboard, playing it with his hands. He is wearing a brown jacket and white pants. Three yellow musical notes are floating around him: one above his head, one to his left, and one to his right. The background is a light blue grid pattern.

Thank You

Yuvraj Giri