



SQL ANALYSIS MUSIC STORE

PROD.ARYAN PANDEY FT. SQL



QUESTION SET 1

Query Query History

```
1 Q1: Who is the senior most employee based on the job title
2
3
4 select * from employee
5 ORDER BY levels desc
6 limit 1|
```

Data Output Messages Notifications

	employee_id [PK] character varying (50)	last_name character	first_name character	title character varying (50)	reports_to character varying (30)	levels character varying (10)	birthdate timestamp without time zone
1	9	Madan	Mohan	... Senior General Manager	[null]	L7	1961-01-26 00:00:00

Query Query History

```
1 Q2: Which countries have the most Invoices?
2
3 Select Count(*) as c, billing_country
4 from invoice
5 group by billing_country
6 order by c desc
```

Data Output Messages Notifications

	c bigint	billing_country character varying (30)
1	131	USA
2	76	Canada
3	61	Brazil
4	50	France
5	41	Germany
6	30	Czech Republic
7	29	Portugal
8	28	United Kingdom
9	21	India

Activate Window
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Query Query History

```
1 Q3: What are top 3 values of total invoice
2
3 Select total from invoice
4 order by total desc
5 limit 3
```

Data Output Messages Notifications

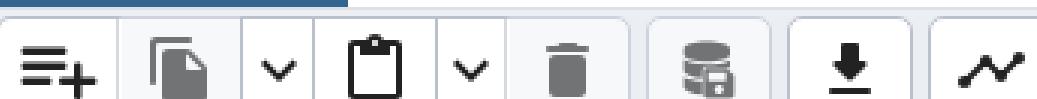


	total	
	double precision	🔒
1	23.759999999999998	
2		19.8
3		19.8

Query Query History

```
1 --- Q5: Who is the best customer? The customer who has spent the most money will be declared  
2 ---      the best customer. Write a query that returns the person who has spent the most money.  
3  
4 Select customer.customer_id, customer.first_name, customer.last_name, Sum(invoice.total) as total  
5 from customer  
6 join invoice on customer.customer_id = invoice.customer_id  
7 group by customer.customer_id  
8 order by total desc  
9 limit 1  
10
```

Data Output Messages Notifications



	customer_id [PK] integer	first_name character	last_name character	total double precision
1	5	R	Madhav	144.54000000000002

QUESTION SET 2

Query History 

```
1 -- Q1: Write a query to return the mail,first name,last name, & Genre of all Rock music listeners. Return  
2 -- your list ordered alphabetically by email starting with A  
3  
4 Select Distinct email,first_name,last_name  
5 from customer  
6 Join invoice on customer.customer_id = invoice.customer_id  
7 join invoice_line on invoice.invoice_id = invoice_line.invoice_id  
8 Where track_id In(  
9     Select track_id from track  
10    join genre on track.genre_id = genre.genre_id  
11    where genre.name Like 'Rock'  
12 )  
13 Order by email;
```

	email character varying (50)	first_name character	last_name character	
1	aaronmitchell@yahoo.ca	Aaron	Mitchell	...
2	alero@uol.com.br	Alexandre	Rocha	...
3	astrid.gruber@apple.at	Astrid	Gruber	...
4	bjorn.hansen@yahoo.no	Bjørn	Hansen	...
5	camille.bernard@yahoo.fr	Camille	Bernard	...
6	daan_peeters@apple.be	Daan	Peeters	...
7	diego.gutierrez@yahoo.ar	Diego	Gutiérrez	...
8	dmiller@comcast.com	Dan	Miller	...
9	dominiquelefebvre@gmail.c...	Dominique	Lefebvre	...

Total rows: 59 of 59

Query complete 00:00:00.119

Query Query History

```
1 --Q2: Let's invite the artist who have written the most rock music in our dataset. Write a query that returns the Artist name and total
2 --      track count of the Top 10 rock bands
3
4 Select artist.artist_id, artist.name,Count(artist.artist_id) As number_of_songs
5 From track
6 Join album on album.album_id = track.album_id
7 Join artist on artist.artist_id = album.artist_id
8 Join genre on genre.genre_id = track.genre_id
9 Where genre.name Like 'Rock'
10 Group by artist.artist_id
11 order by number_of_songs Desc
12 Limit 10;
```

Data Output Messages Notifications

The screenshot shows a database interface with a query editor at the top and a data output viewer below. The query editor contains a SQL script to find the top 10 rock artists by song count. The data output viewer displays a table with three columns: artist_id, name, and number_of_songs. The table lists 10 rows, with the second row for U2 selected. The data is as follows:

	artist_id	name	number_of_songs
1	22	Led Zeppelin	114
2	150	U2	112
3	58	Deep Purple	92
4	90	Iron Maiden	81
5	118	Pearl Jam	54
6	152	Van Halen	52
7	51	Queen	45
8	142	The Rolling Stones	41
9	76	Creedence Clearwater Revival	40
10	52	Kiss	35

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Total rows: 10 of 10

Query complete 00:00:00.100

Ln 12

Query Query History

```
1 -- Q3: Return all the track names that have a song length longer than the average song length. Return the name and milliseconds for each
2 -- track. Order by the song length with the longest song listed first.
3
4 Select name,milliseconds
5 From track
6 Where milliseconds > (
7     select Avg(milliseconds) As avg_track_length
8 From track)
9 Order by milliseconds Desc;
```

Data Output Messages Notifications



	name character varying (150)	milliseconds integer
1	For Those About To Rock (We Salute You)	343719
2	Balls to the Wall	342562
3	Fast As a Shark	230619
4	Restless and Wild	252051
5	Princess of the Dawn	375418
6	Put The Finger On You	205662
7	Let's Get It Up	233926
8	Inject The Venom	210834
9	Snowballed	203102
10	Evil Walks	263497

Total rows: 1000 of 3503

Query complete 00:00:00.161

Ln

QUESTION SET 3

Query History

```
1 --Q1. Find how much amount spend by each customer on artist? Write a query to return custopmer name, artist name and total spent
2
3 with best_selling_artsist As (
4 Select artist.artist_id As artist_id,artist.name As artist_name,
5 Sum(invoice_line.unit_price*invoice_line.quantity) As total_sales
6 From invoice_line
7 Join track On track.track_id = invoice_line.track_id
8 Join album on album.album_id = track.album_id
9 Join artist on artist.artist_id = album.artist_id
10 Group by 1
11 Order by 3 desc
12 Limit 1
13 )
```

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	16.830000000000002
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	Queen	10.89
9	20	Dan	Miller	Queen	3.96
10	5	R	Madhav	Queen	3.96

Total rows: 43 of 43 Query complete 00:00:00.071 Ln 14, Col 66

Query Query History

```
11 Order by 3 desc
12 Limit 1
13 )
14 Select c.customer_id, c.first_name, c.last_name, bsa.artist_name,
15 sum(il.unit_price*il.quantity) As amount_spent
16 from invoice i
17 join customer c on c.customer_id = i.customer_id
18 join invoice_line il on il.invoice_id = i.invoice_id
19 join track t on t.track_id = il.track_id
20 join album alb on alb.album_id = t.album_id
21 join best_selling_artists bsa on bsa.artist_id = alb.artist_id
22 Group by 1,2,3,4
23 order by 5 desc;
```

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	27.719999999999985
2	38	Niklas	Schröder	Queen	18.81
3	3	François	Tremblay	Queen	17.82
4	34	João	Fernandes	Queen	16.830000000000002
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	Queen	10.89
9	20	Dan	Miller	Queen	3.96
10	5	R	Madhav	Queen	3.96

Total rows: 43 of 43 Query complete 00:00:00.071 Ln 14, Col 66

Query Query History

```
1 --Q2. We want to find out the most popular music genre for each country. We determine the most popular genre as the genre with the highest
2 -- amount of purchases. Write query that returns each country along with the top genre. For countries where the maximum numbers of
3 -- purchaes is shared return all genres.
4
5 WITH popular_genre AS
6 (
7     SELECT COUNT(invoice_line.quantity) AS purchaes, customer.country, genre.name, genre.genre_id,
8         Row_number() Over(partition by customer.country Order by count(invoice_line.quantity) DESC) AS RowNo
9     From invoice_line
10    join invoice on invoice.invoice_id = invoice_line.invoice_id
11    join customer on customer.customer_id = invoice.customer_id
12    join track on track.track_id = invoice_line.track_id
13    join genre on genre.genre_id = track.genre_id
```

Data Output Messages Notifications



	purchaes bigint	country character varying (50)	name character varying (120)	genre_id character varying (50)	rowno bigint
1	17	Argentina	Alternative & Punk	4	1
2	34	Australia	Rock	1	1
3	40	Austria	Rock	1	1
4	26	Belgium	Rock	1	1
5	205	Brazil	Rock	1	1
6	333	Canada	Rock	1	1
7	61	Chile	Rock	1	1
8	143	Czech Republic	Rock	1	1
9	24	Denmark	Rock	1	1
10	46	Finland	Rock	1	1

Total rows: 24 of 24

Query complete 00:00:00.131

Ln 5, Col 23

Query Query History

```
7   SELECT COUNT(invoice_line.quantity) AS purchases, customer.country, genre.name, genre.genre_id,
8   Row_number() Over(partition by customer.country Order by count(invoice_line.quantity) DESC) As RowNo
9   From invoice_line
10  join invoice on invoice.invoice_id = invoice_line.invoice_id
11  join customer on customer.customer_id = invoice.customer_id
12  join track on track.track_id = invoice_line.track_id
13  join genre on genre.genre_id = track.genre_id
14  Group By 2,3,4
15  Order by 2 Asc, 1 desc
16 )
17
18 Select * from popular_genre Where RowNo <= 1
19
```

Data Output Messages Notifications

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	purchases bigint	country character varying (50)	name character varying (120)	genre_id character varying (50)	rowno bigint
1	17	Argentina	Alternative & Punk	4	1
2	34	Australia	Rock	1	1
3	40	Austria	Rock	1	1
4	26	Belgium	Rock	1	1
5	205	Brazil	Rock	1	1
6	333	Canada	Rock	1	1
7	61	Chile	Rock	1	1
8	143	Czech Republic	Rock	1	1
9	24	Denmark	Rock	1	1
10	46	Finland	Rock	1	1

Total rows: 24 of 24 Query complete 00:00:00.131 Ln 5, Col 26

Query Query History

```
1 --Q3. Write a query that determines the customer that has spent the most on music for each country. Write the top customer and how much
2 -- they spent. For the countries where the top most amount spent is shared, provide all customers who spent this amount.
3
4 With Customer_with_country AS (
5     Select customer.customer_id,first_name,last_name,billing_country,sum(total)As total_spending,
6         Row_number() OVER(partition by billing_country Order BY SUM(total)DESC) As RowNo
7     FROM invoice
8     Join customer On customer.customer_id = invoice.customer_id
9     Group by 1,2,3,4
10    Order by 4 ASC,5 DESC)
11
12 Select * from Customer_with_country WHERE RowNo <= 1
```

Data Output Messages Notifications

	customer_id integer	first_name character	last_name character	billing_country character varying (30)	total_spending double precision	rowno bigint
1	56	Diego	Gutiérrez	Argentina	39.6	1
2	55	Mark	Taylor	Australia	81.18	1
3	7	Astrid	Gruber	Austria	69.3	1
4	8	Daan	Peeters	Belgium	60.38999999999999	1
5	1	Luís	Gonçalves	Brazil	108.8999999999998	1
6	3	François	Tremblay	Canada	99.99	1
7	57	Luis	Rojas	Chile	97.02000000000001	1
8	5	R	Madhav	Czech Republic	144.54000000000002	1
9	9	Kara	Nielsen	Denmark	37.61999999999999	1
10	44	Terhi	Hämäläinen	Finland	79.2	1

Total rows: 24 of 24

Query complete 00:00:00.059

Ln 12, Col 53

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