

Q1. Who is the Senior Most Employee based JOB TITLE?

```
1  --Q1. who is the senior most employee based job title
2
3  SELECT title, last_name, first_name
4  FROM employee
5  ORDER BY levels DESC
6  LIMIT 1
7
8
```

Data Output Messages Notifications

	title character varying (50)	last_name character (50)	first_name character (50)
1	Senior General Manag...	Madan	Mohan

Q2. Which countries have the most invoice?

```
9  --Q2. which countries have the most invoices
10 select * from invoice
11
12 select billing_country , count(*) as c
13 from invoice
14 group by billing_country
15 order by c desc
16
```

Data Output Messages Notifications

	billing_country character varying (30)	c bigint
1	USA	131
2	Canada	76
3	Brazil	61
4	France	50
5	Germany	41
6	Czech Republic	30
7	Portugal	29
8	United Kingdom	28
9	India	21
10	Chile	13
11	Ireland	13
12	Spain	11
13	Finland	11
14	Australia	10

Q3. What are top 3 values of total invoice?

Query

Query History

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--Q3. what are top 3 values of total invoice

select total , customer_id , billing_country
from invoice
order by total desc
limit 3

Data Output

Messages

Notifications

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SQL

	total double precision 🔒	customer_id integer 🔒	billing_country character varying (30) 🔒
1	23.759999999999998	42	France
2	19.8	32	Canada
3	19.8	3	Canada

Q4. Which city has the best customers ? we would like to throw a promotional music festival in the city we made the most query that returns one city that has the highest sum of return both city name & sum of all invoices totals ?

Query

Query History

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--Q4. which city has the best customers ?
--we would like to throw a promotional music festival in the city
--we made the most query that returns one city that has the highest sum of return bo

select * from invoice

select billing_city ,sum(total) as total_spent
from invoice
group by billing_city
order by total_spent desc
limit 1

Data Output

Messages

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SQL

	billing_city character varying (30) 🔒	total_spent double precision 🔒
1	Prague	273.24000000000007

Q5. Who is the best customer ? the customer who has money will be declared the best customer. write a query for the person who has spent the most money?

Query

Query History

```
37 --Q5. who is the best customer ?
38 --the customer who has money will be declared the best customer.
39 --write a query the person who has spent the most money?
40 select * from customer
41 select * from invoice
42
43 select customer.customer_id , first_name , last_name , sum(total) as number_of_spent
44 from customer
45 join invoice on customer.customer_id = invoice. invoice_id
46 group by customer.customer_id
47 order by number_of_spent desc
```

Data Output

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Q6. Write a query to return the email, first name, last name & genre of all rock music listeners . return your list ordered alphabetically by email starting A ?

Query

Query History

```

50 --Q6. Write query to return the email, first name, last name ,
51 --& genre of all rock music listeners .
52 --return your list ordered alphabetically by email starting A
53 select * from customer
54
55 select distinct first_name, last_name , email, genre.name as Name
56 from customer
57 join invoice on invoice.customer_id= customer.customer_id
58 join invoice_line on invoice_line.invoice_id=invoice.invoice_id
59 join track on track.track_id = invoice_line.track_id
60 join genre on genre.genre_id = track.genre_id
61 where genre.name like 'Rock'
62 order by email asc

```

Data Output

Messages

Notifications

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SQL

	first_name character (50)	last_name character (50)	email character varying (50)	name character varying (120)
1	Aaron	Mitchell	aaronmitchell@yahoo.ca	Rock
2	Alexandre	Rocha	alero@uol.com.br	Rock
3	Astrid	Gruber	astrid.gruber@apple.at	Rock
4	Bjørn	Hansen	bjorn.hansen@yahoo.no	Rock
5	Camille	Bernard	camille.bernard@yahoo.fr	Rock
6	Daan	Peeters	daan_peeters@apple.be	Rock
7	Diego	Gutiérrez	diego.gutierrez@yahoo.ar	Rock
8	Dan	Miller	dmiller@comcast.com	Rock
9	Dominique	Lefebvre	dominiquelefebvre@gmail...	Rock
10	Edward	Francis	edfrancis@yahoo.ca	Rock

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.

```
--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.  
  
select * from artist  
select * from track  
select artist.artist_id , artist.name , count(artist.track_id) as total_track  
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 total_track desc  
limit 10
```

	artist_id [PK] character varying (50)	name character varying (120)	total_track 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
6	152	Van Halen	52
7	51	Queen	45
8	142	The Rolling Stones	41
9	76	Credence Clearwater Rev...	40
10	52	Kiss	35

Q8. Return all track names that have song letter the average song length longer than the average song length. Return the name and milliseconds for each track. order by the song length with longest songs listed first.

```
Query History
78 --Q8. Return all track names that have song letter the average song length longer than the average song length.
79 --return the name and milliseconds for each track .
80 --order by the song length with longest songs listed first.
81 select * from track
82
83 select name,milliseconds
84 from track
85 where milliseconds > (
86     select avg(milliseconds) as avg_track_length
87     from track )
88 order by milliseconds desc;
```

Data Output

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SQL

Showing rows: 1 to 494

	name character varying (150)	milliseconds integer
1	Occupation / Precipice	5286953
2	Through a Looking Glass	5088838
3	Greetings from Earth, Pt. 1	2960293
4	The Man With Nine Lives	2956998
5	Battlestar Galactica, Pt. 2	2956081
6	Battlestar Galactica, Pt. 1	2952702
7	Murder On the Rising Star	2935894
8	Battlestar Galactica, Pt. 3	2927802
9	Take the Celestra	2927677
10	Fire In Space	2926593
11	The Long Patrol	2925008

--Q9. Find how much amount spent by each customer on artists? write a query to return customer name, artist name and total spent

Query

Query History

91

--Q9. Find how much amount spent by each customer on artists?

92

--write a query to return customer name, artist name and total spent

93

94

select customer.customer_id , customer.first_name , customer.last_name , billing_country,

95

artist.name as artist_name, sum(total) as total_spent

96

from customer

97

join invoice on customer.customer_id = invoice.invoice_id

98

join invoice_line on invoice.invoice_id = invoice_line.invoice_id

99

join track on invoice_line.invoice_id = track.track_id

100

join album on track.album_id = album.album_id

101

join artist on album.album_id = artist.artist_id

102

group by customer.customer_id , customer.first_name , customer.last_name , billing_country ,artist.name

103

order by total_spent desc

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--Q10. 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 amount of purchases. write a query that returns each country along with the top genre.for countries where the maximum number of purchases is shared return all genres.

Query

Query History

```
109 --Q10. We want to find out the most popular music genre for each country.
110 --we determine the most popular genre as the genre with highest amount of purchases.
111 --write a query that returns each country along with the top genre.
112 --for countries where the maximum number of purchases is shared return all genres.
113
114 with popular_genre as
115 ( select count(invoice_line.quantity) as purchase ,
116     customer.country ,
117     genre.name,
118     genre.genre_id,
119     row_number() over(partition by customer.country order by count(invoice_line.quantity)desc)as RowNo
120   from invoice_line
121   join invoice on invoice.invoice_id = invoice_line.invoice_id
122   join customer on customer.customer_id = invoice_line.invoice_id
123   join track on track.track_id= invoice_line.track_id
124   join genre on genre.genre_id = track.genre_id
125   group by 2,3,4
126   order by 2 asc , 1 desc
127 ) select * from popular_genre where RowNo <= 1
```

Data Output

Messages

Notifications

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Q11. Write a query that determines the customer that has on music for each country. write a query that returns that with top customer and how much they spent. for company the top amount spent is shared , provide all customers with amount.

```
Query History
--Q11. Write a query that determines the customer that has on music for each country.
--write a query that returns that with top customer and how much they spent.
--for company the top amount spent is shared , provide all customers with amount.

select * from customer
select * from invoice

with customer_with_country as (
    select customer.customer_id,first_name ,last_name , billing_country , sum(total) as total_spending,
        row_number() over(partition by billing_country order by sum(total)desc) as RowNo
    from invoice
join customer on customer.customer_id = invoice.customer_id
group by 1,2,3,4
order by 4 asc , 5 desc
)select * from customer_with_country where RowNo <= 1
```

Data Output Messages Notifications

	customer_id integer	first_name character (50)	last_name character (50)	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	60.389999999999998	1
5	1	Luis	Gonçalves	Brazil	108.899999999999998	1
6	3	François	Tremblay	Canada	99.99	1
7	57	Luis	Rojas	Chile	97.020000000000001	1
8	5	R	Madhav	Czech Republic	144.540000000000002	1