

Query History ↗

```
1 --Q1: Who is the senior most employee based on job title?
2 SELECT * FROM employee
3 ORDER BY levels desc
4 LIMIT 1;
```

Data Output Messages Notifications ↗

Showing rows: 1 to 1 Page No: 1 of 1

	employee_id [PK] character varying (50) <input type="button" value="Edit"/>	last_name character (50) <input type="button" value="Edit"/>	first_name character (50) <input type="button" value="Edit"/>	title character varying (50) <input type="button" value="Edit"/>	reports_to character varying (30) <input type="button" value="Edit"/>	levels character varying (10) <input type="button" value="Edit"/>	birthdate timestamp w
1	9	Madan	... Mohan	... Senior General Manager	[null]	L7	1961-01-26 0

Query History



```
6 --Q2: Which countries have the most Invoices?  
7 SELECT COUNT(*) AS c, billing_country  
8 FROM invoice  
9 GROUP BY billing_country  
10 ORDER BY c desc;  
11
```

Data Output Messages Notifications



Showing rows: 1 to 24



Page No: 1

of 1



	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
10	13	Chile

Query

Query History



```
12 --Q3: What are top 3 values of total invoice?  
13 SELECT total FROM invoice  
14 ORDER BY total desc  
15 LIMIT 3;  
16  
17
```

Data Output Messages Notifications



Showing rows: 1 to 3



Page No: 1

of 1



	total	
	double precision	locked
1	23.759999999999998	
2	19.8	
3	19.8	

```
18 /* Q4: Which city has the best customers?  
19     We would like to throw a promotional Music Festival in the city we made the most money.  
20     Write a query that returns one city that has the highest sum of invoice totals.  
21     Return both the city name & sum of all invoice totals */  
22 SELECT SUM(total) AS invoice_total, billing_city  
23 FROM invoice  
24 GROUP BY billing_city  
25 ORDER BY invoice_total desc  
26 LIMIT 1;  
27
```

Data Output Messages Notifications

↗



Showing rows: 1 to 1



Page No: 1

of 1



	invoice_total double precision	billing_city character varying (30)
1	273.24000000000007	Prague

```
28
29 /* Q5: Who is the best customer?
30     The customer who has spent the most money will be declared the best customer.
31     Write a query that returns the person who has spent the most money.*/
32 SELECT customer.customer_id, customer.first_name, customer.last_name, SUM(invoice.total) AS total
33 FROM customer
34 JOIN invoice ON customer.customer_id = invoice.customer_id
35 GROUP BY customer.customer_id
36 ORDER BY total desc
37 LIMIT 1;
```

Data Output Messages Notifications



Showing rows: 1 to 1



Page No: 1

of 1



	customer_id [PK] integer	first_name character (50)	last_name character (50)	total double precision		
1	5	R	...	Madhav	...	144.54000000000002

Query History

```
39 /* Q6: Write query to return the email, first name, last name, & Genre of all Rock Music listeners.  
40     Return your list ordered alphabetically by email starting with A. */  
41 select DISTINCT email, first_name, last_name  
42 FROM customer  
43 JOIN invoice ON customer.customer_id = invoice.customer_id  
44 JOIN invoice_line ON invoice.invoice_id = invoice_line.invoice_id  
45 WHERE track_id IN (SELECT track_id FROM track  
46 JOIN genre ON track.genre_id = genre.genre_id  
47 WHERE genre.name LIKE 'Rock')  
48 ORDER BY email;
```

Data Output Messages Notifications



Showing rows: 1 to 59



Page No: 1

of 1



	email character varying (50)	first_name character (50)	last_name character (50)
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

Query History 

```
51 /* Q7: Let's invite the artists who have written the most rock music in our dataset.  
52 Write a query that returns the Artist name and total track count of the top 10 rock bands. */  
53 SELECT artist.artist_id, artist.name, COUNT(artist.artist_id) AS number_of_songs  
54 FROM track  
55 JOIN album ON album.album_id = track.album_id  
56 JOIN artist ON artist.artist_id = album.artist_id  
57 JOIN genre ON genre.genre_id = track.genre_id  
58 WHERE genre.name LIKE 'Rock'  
59 GROUP BY artist.artist_id  
60 ORDER BY number_of_songs desc  
61 LIMIT 10;
```

Data Output Messages Notifications 



Showing rows: 1 to 10 

Page No: 1

of 1    

	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

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

Query History



```
63 /* Q8: Return all the track names that have a song length longer than the average song length.  
64     Return the Name and Milliseconds for each track.  
65     Order by the song length with the longest songs listed first. */  
66 SELECT name, milliseconds  
67 FROM track  
68 WHERE milliseconds > (SELECT AVG(milliseconds) AS Average_track_Length  
69   FROM track)  
70 ORDER BY milliseconds desc;  
71 |
```

Data Output Messages Notifications



Showing rows: 1 to 494



Page No: 1

of 1



	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

```
72 /* Q9: Find how much amount spent by each customer on artists?  
73     Write a query to return customer name, artist name and total spent */  
74 WITH best_selling_artist AS (  
75     SELECT artist.artist_id AS artist_id, artist.name AS artist_name,  
76     SUM(invoice_line.unit_price*invoice_line.quantity) AS total_sales  
77     FROM invoice_line  
78     JOIN track ON track.track_id = invoice_line.track_id  
79     JOIN album ON album.album_id = track.album_id  
80     JOIN artist ON artist.artist_id = album.artist_id  
81     GROUP BY 1  
82     ORDER BY 3 desc  
83     LIMIT 1  
84     )  
85     SELECT c.customer_id, c.first_name, c.last_name, bsa.artist_name,  
86     SUM(il.unit_price*il.quantity) AS amount_spent  
87     FROM invoice i  
88     JOIN customer c ON c.customer_id = i.customer_id  
89     JOIN invoice_line il ON il.invoice_id = i.invoice_id  
90     JOIN track t ON t.track_id = il.track_id  
91     JOIN album alb ON alb.album_id = t.album_id  
92     JOIN best_selling_artist bsa ON bsa.artist_id = alb.artist_id  
93     GROUP BY 1,2,3,4  
94     ORDER BY 5 desc;
```

Data Output Messages Notifications

The interface includes a toolbar with icons for new table, file operations, and SQL editor. The SQL tab is active. A status bar at the bottom shows 'Showing rows: 1 to 43' and a page navigation area.

	customer_id integer	first_name character (50)	last_name character (50)	artist_name character varying (120)	amount_spent double precision
1	46	Hugh	...	O'Reilly	27.719999999999985
2	38	Niklas	...	Schröder	18.81
3	3	François	...	Tremblay	17.82
4	34	João	...	Fernandes	16.830000000000002
5	53	Phil	...	Hughes	11.88
6	41	Marc	...	Dubois	11.88
7	47	Lucas	...	Mancini	10.89
8	33	Ellie	...	Sullivan	10.89
9	20	Dan	...	Miller	3.96
10	5	R	...	Madhav	3.96

```
95
96 /* Q10: We want to find out the most popular music Genre for each country.
97     We determine the most popular genre as the genre
98     with the highest amount of purchases.
99     Write a query that returns each country along with the top Genre.
100    For countries where the maximum number of purchases is shared return all Genres. */
101
102 WITH popular_genre AS
103 (
104     SELECT COUNT(invoice_line.quantity) AS purchases, customer.country, genre.name, genre.genre_id,
105     row_number() OVER(PARTITION BY customer.country
106     ORDER BY COUNT(invoice_line.quantity) desc) AS RowNo
107     FROM invoice_line
108     JOIN invoice ON invoice.invoice_id = invoice_line.invoice_id
109     JOIN customer ON customer.customer_id = invoice.customer_id
110     JOIN track ON track.track_id = invoice_line.track_id
111     JOIN genre ON genre.genre_id = track.genre_id
112     GROUP BY 2,3,4
113     ORDER BY 2 ASC, 1 desc
114 )
115     SELECT * FROM popular_genre WHERE RowNo <= 1;
```

Data Output Messages Notifications

Showing rows: 1 to 24 Page No: 1 of 1

	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
11	211	France	Rock	1	1
12	194	Germany	Rock	1	1

Query Query History

Execute script F5

```
117 /* Q11: Write a query that determines the customer that has spent the most on music for each country.  
118 Write a query that returns the country along with the top customer and how much they spent.  
119 For countries where the top amount spent is shared, provide all customers who spent this amount. */  
120 with Customer_with_country as (  
121 select customer.customer_id,first_name,last_name,billing_country,sum(total) as total_spending,  
122 row_number() over(partition by billing_country  
123 order by sum(total) desc) as RowNo  
124 from invoice  
125 join customer on customer.customer_id = invoice.customer_id  
126 group by 1,2,3,4  
127 order by 4 asc,5 desc)  
128 select * from Customer_with_country where RowNo <= 1;
```

Data Output Messages Notifications

Showing rows: 1 to 24 Page No: 1 of 1

	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	39.6	1
2	55	Mark	...	Taylor	81.18	1
3	7	Astrid	...	Gruber	69.3	1
4	8	Daan	...	Peeters	60.38999999999999	1
5	1	Luis	...	Goncalves	108.89999999999998	1