Q) Who is the senior most employee based on job title?

```
1 v  select employee_id,
2    concat(trim(first_name), ' ', trim(last_name)) as full_name,levels
3    from employee order by levels desc limit 1;
```

Data Output   Messages   Notifications

| | employee_id [PK] character varying (50) | full_name text | levels character varying (10) |
|---|---|---|---|
| 1 | 9 | Mohan Madan | L7 |

Q) Which countries have the most invoices?

```
1 v  select billing_country, count(*) as total_invoices
2    from invoice
3    group by billing_country order by total_invoices desc limit 10;
4
```

Data Output   Messages   Notifications

| | billing_country character varying (30) | total_invoices 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 |

Q) What are the top 3 values of total invoice?

```sql
1   select total from invoice order by total desc limit 3;
2
3
```

**Data Output**  Messages  Notifications

| | total<br>double precision |
|---|---|
| 1 | 23.759999999999998 |
| 2 | 19.8 |
| 3 | 19.8 |

Q) What are the top 3 distinct invoice totals?

```sql
1   select distinct(total) from invoice order by total desc limit 3;
2
3
```

**Data Output**  Messages  Notifications

| | total<br>double precision |
|---|---|
| 1 | 23.759999999999998 |
| 2 | 19.8 |
| 3 | 18.81 |

Q) Which city has best customers? A city which has the highest sum of invoice totals.

Query   Query History

```
1 v  select billing_city, sum(total) as invoice_total from invoice
2    group by billing_city order by invoice_total desc limit 1;
```

Data Output   Messages   Notifications

| | billing_city<br>character varying (30) 🔒 | invoice_total<br>double precision 🔒 |
|---|---|---|
| 1 | Prague | 273.24000000000007 |

Q) Who is the best customer? The customer who has spent the most money is the best customer.

Query   Query History

```
1 v  select customer.customer_id,
2    concat(first_name, '', last_name) as full_name,sum(total) as money_spent from customer
3    inner join invoice on customer.customer_id= invoice.customer_id
4    group by customer.customer_id
5    order by money_spent desc
6    limit 1;
7
```

Data Output   Messages   Notifications

| | customer_id<br>[PK] integer ✏ | full_name<br>text | | money_spent<br>double precision 🔒 |
|---|---|---|---|---|
| 1 | 5 | R | Madhav | 144.54000000000002 |

Q) Give details of all rock listeners.

```
1 v  select distinct email, first_name, last_name,genre.name from customer
2    inner join invoice on customer.customer_id= invoice.customer_id
3    inner join invoice_line on invoice.invoice_id= invoice_line.invoice_id
4    inner join track on invoice_line.track_id= track.track_id
5    inner join genre on track.genre_id= genre.genre_id
6    where genre.name= 'Rock'
7    order by first_name,last_name;
```

| | email character varying (50) | first_name character | last_name character | name character varying (120) |
|---|---|---|---|---|
| 1 | aaronmitchell@yahoo.ca | Aaron | Mitchell | Rock |
| 2 | alero@uol.com.br | Alexandre | Rocha | Rock |
| 3 | astrid.gruber@apple.at | Astrid | Gruber | Rock |
| 4 | bjorn.hansen@yahoo.no | Bjørn | Hansen | Rock |
| 5 | camille.bernard@yahoo.fr | Camille | Bernard | Rock |
| 6 | daan_peeters@apple.be | Daan | Peeters | Rock |
| 7 | dmiller@comcast.com | Dan | Miller | Rock |
| 8 | diego.gutierrez@yahoo.ar | Diego | Gutiérrez | Rock |
| 9 | dominiquelefebvre@gmail.c... | Dominique | Lefebvre | Rock |
| 10 | eduardo@woodstock.com.br | Eduardo | Martins | Rock |
| 11 | edfrancis@yachoo.ca | Edward | Francis | Rock |
| 12 | ellie.sullivan@shaw.ca | Ellie | Sullivan | Rock |
| 13 | emma_jones@hotmail.com | Emma | Jones | Rock |
| 14 | enrique_munoz@yahoo.es | Enrique | Muñoz | Rock |
| 15 | fernadaramos4@uol.com.br | Fernanda | Ramos | Rock |
| 16 | ftremblay@gmail.com | François | Tremblay | Rock |
| 17 | fharris@google.com | Frank | Harris | Rock |
| 18 | fralston@gmail.com | Frank | Ralston | Rock |
| 19 | fzimmermann@yahoo.de | Fynn | Zimmermann | Rock |
| 20 | hannah.schneider@yahoo.de | Hannah | Schneider | Rock |
| 21 | hleacock@gmail.com | Heather | Leacock | Rock |
| 22 | hholy@gmail.com | Helena | Holý | Rock |

Total rows: 59 of 59    Query complete 00:00:00.052

Q) Give details of top 10 rock bands

Query  Query History

```sql
1 ∨ select distinct artist.name, count(distinct album.title) as total_tracks
2   from artist inner join album on artist.artist_id= album.artist_id
3   inner join track on album.album_id= track.album_id
4   inner join genre on track.genre_id= genre.genre_id
5   where genre.name = 'Rock'
6   group by artist.name
7   order by total_tracks desc
8   limit 10;
9
```

Data Output  Messages  Notifications

| | name<br>character varying (120) 🔒 | total_tracks 🔒<br>bigint |
|----|----|----|
| 1 | Led Zeppelin | 14 |
| 2 | Deep Purple | 11 |
| 3 | Iron Maiden | 9 |
| 4 | U2 | 9 |
| 5 | Ozzy Osbourne | 5 |
| 6 | Pearl Jam | 4 |
| 7 | Van Halen | 4 |
| 8 | Foo Fighters | 3 |
| 9 | Queen | 3 |
| 10 | Santana | 3 |

Q) Return all the track names that have a song length longer than the average song length.

```
1 v  select track_id, name, milliseconds from track
2    where milliseconds >= (select avg(milliseconds) from track)
3    order by milliseconds desc;
```

Query    Query History                                    ↗    Scratch Pad  ✕

Data Output   Messages   Notifications

| | track_id [PK] integer | name character varying (150) | milliseconds integer |
|---|---|---|---|
| 1 | 2820 | Occupation / Precipice | 5286953 |
| 2 | 3224 | Through a Looking Glass | 5088838 |
| 3 | 3244 | Greetings from Earth, Pt. 1 | 2960293 |
| 4 | 3242 | The Man With Nine Lives | 2956998 |
| 5 | 3227 | Battlestar Galactica, Pt. 2 | 2956081 |
| 6 | 3226 | Battlestar Galactica, Pt. 1 | 2952702 |
| 7 | 3243 | Murder On the Rising Star | 2935894 |
| 8 | 3228 | Battlestar Galactica, Pt. 3 | 2927802 |
| 9 | 3248 | Take the Celestra | 2927677 |
| 10 | 3239 | Fire In Space | 2926593 |
| 11 | 3232 | The Long Patrol | 2925008 |
| 12 | 3235 | The Magnificent Warriors | 2924716 |
| 13 | 3237 | The Living Legend, Pt. 1 | 2924507 |
| 14 | 3234 | The Gun On Ice Planet Zero, Pt. 2 | 2924341 |
| 15 | 3249 | The Hand of God | 2924007 |
| 16 | 3247 | Experiment In Terra | 2923548 |
| 17 | 3241 | War of the Gods, Pt. 2 | 2923381 |

Total rows: 494 of 494    Query complete 00:00:00.146

Q) How much amount spent by each customer on artists?

```
1 ∨  select concat(trim(first_name),' ', trim(last_name)), artist.name,
2    sum(invoice_line.unit_price * invoice_line.quantity) as total_sales
3    from customer inner join invoice on customer.customer_id= invoice.customer_id
4    inner join invoice_line on invoice.invoice_id= invoice_line.invoice_id
5    inner join track on invoice_line.track_id= track.track_id
6    inner join album on track.album_id= album.album_id
7    inner join artist on album.artist_id= artist.artist_id
8    group by customer.customer_id, artist.artist_id
9    order by total_sales desc
```

| | concat<br>text 🔒 | name<br>character varying (120) 🔒 | total_sales<br>double precision 🔒 |
|---|---|---|---|
| 1 | Hugh O'Reilly | Queen | 27.719999999999985 |
| 2 | Wyatt Girard | Frank Sinatra | 23.75999999999999 |
| 3 | François Tremblay | The Who | 19.799999999999997 |
| 4 | R Madhav | Kiss | 19.799999999999997 |
| 5 | Aaron Mitchell | James Brown | 19.799999999999997 |
| 6 | Helena Holý | Red Hot Chili Peppers | 19.799999999999997 |
| 7 | Robert Brown | Creedence Clearwater Revival | 19.799999999999997 |
| 8 | Hugh O'Reilly | Nirvana | 18.81 |
| 9 | Heather Leacock | House Of Pain | 18.81 |
| 10 | Niklas Schröder | Queen | 18.81 |
| 11 | Mark Taylor | The Clash | 17.82 |
| 12 | Ladislav Kovács | The Cult | 17.82 |
| 13 | Hugh O'Reilly | Marisa Monte | 17.82 |
| 14 | François Tremblay | Queen | 17.82 |
| 15 | R Madhav | Eric Clapton | 17.82 |
| 16 | Camille Bernard | Marisa Monte | 17.82 |
| 17 | Dan Miller | Eric Clapton | 17.82 |
| 18 | Luís Gonçalves | The Cult | 17.82 |
| 19 | Richard Cunningham | Marvin Gaye | 17.82 |
| 20 | Steve Murray | AC/DC | 17.82 |
| 21 | Fynn Zimmermann | Jimi Hendrix | 16.830000000000002 |
| 22 | Manoi Pareek | O Rappa | 16.830000000000002 |

Total rows: 1000 of 2189    Query complete 00:00:00.304    Ln 9, Col 26

Q) Which is the most popular music genre by country

```
1 ∨ with x as (select customer.country, genre.genre_id, genre.name,
2   count(*) as number_of_tracks from customer
3   inner join invoice on customer.customer_id= invoice.customer_id
4   inner join invoice_line on invoice.invoice_id= invoice_line.invoice_id
5   inner join track on invoice_line.track_id= track.track_id
6   inner join genre on track.genre_id= genre.genre_id
7   group by customer.country, genre.genre_id
8   order by country), y as (select *, row_number()
9   over(partition by country order by number_of_tracks desc) from x)
10
11  select country, name, number_of_tracks from y where row_number=1;
```

| | country<br>character varying (50) 🔒 | name<br>character varying (120) 🔒 | number_of_tracks 🔒<br>bigint |
|---|---|---|---|
| 1 | Argentina | Alternative & Punk | 17 |
| 2 | Australia | Rock | 34 |
| 3 | Austria | Rock | 40 |
| 4 | Belgium | Rock | 26 |
| 5 | Brazil | Rock | 205 |
| 6 | Canada | Rock | 333 |
| 7 | Chile | Rock | 61 |
| 8 | Czech Republic | Rock | 143 |
| 9 | Denmark | Rock | 24 |
| 10 | Finland | Rock | 46 |
| 11 | France | Rock | 211 |
| 12 | Germany | Rock | 194 |
| 13 | Hungary | Rock | 44 |
| 14 | India | Rock | 102 |
| 15 | Ireland | Rock | 72 |
| 16 | Italy | Rock | 35 |
| 17 | Netherlands | Rock | 33 |
| 18 | Norway | Rock | 40 |
| 19 | Poland | Rock | 40 |
| 20 | Portugal | Rock | 108 |
| 21 | Spain | Rock | 46 |
| 22 | Sweden | Rock | 60 |

Total rows: 24 of 24     Query complete 00:00:00.175     Ln 9, Col 1

Q) Which customer has spent most on music for each country?

```sql
 1 ∨ with x as (
 2     select concat(trim(first_name),' ', trim(last_name))as full_name, country,
 3     sum(invoice_line.unit_price * invoice_line.quantity) as total_sales
 4     from customer inner join invoice on customer.customer_id= invoice.customer_id
 5     inner join invoice_line on invoice.invoice_id= invoice_line.invoice_id
 6     group by customer.customer_id, customer.country), y as (select *,
 7     row_number() over(partition by country order by total_sales desc) from x)
 8
 9     select full_name, country, total_sales from y where
10     row_number= 1 order by country;
11
```

| | full_name<br>text 🔒 | country<br>character varying (50) 🔒 | total_sales<br>double precision 🔒 |
|---|---|---|---|
| 1 | Diego Gutiérrez | Argentina | 39.599999999999994 |
| 2 | Mark Taylor | Australia | 81.17999999999995 |
| 3 | Astrid Gruber | Austria | 69.30000000000001 |
| 4 | Daan Peeters | Belgium | 60.390000000000036 |
| 5 | Luís Gonçalves | Brazil | 108.8999999999998 |
| 6 | François Tremblay | Canada | 99.98999999999985 |
| 7 | Luis Rojas | Chile | 97.01999999999987 |
| 8 | R Madhav | Czech Republic | 144.53999999999985 |
| 9 | Kara Nielsen | Denmark | 37.61999999999999 |
| 10 | Terhi Hämäläinen | Finland | 79.19999999999996 |
| 11 | Wyatt Girard | France | 99.98999999999985 |
| 12 | Fynn Zimmermann | Germany | 94.04999999999988 |
| 13 | Ladislav Kovács | Hungary | 78.20999999999997 |
| 14 | Manoj Pareek | India | 111.86999999999979 |
| 15 | Hugh O'Reilly | Ireland | 114.83999999999978 |
| 16 | Lucas Mancini | Italy | 50.490000000000016 |
| 17 | Johannes Van der Berg | Netherlands | 65.34000000000003 |
| 18 | Bjørn Hansen | Norway | 72.27 |
| 19 | Stanisław Wójcik | Poland | 76.22999999999998 |
| 20 | João Fernandes | Portugal | 102.95999999999984 |
| 21 | Enrique Muñoz | Spain | 98.00999999999986 |
| 22 | Joakim Johansson | Sweden | 75.22999999999998 |

Total rows: 24 of 24    Query complete 00:00:00.178    Ln 11, Col 1