SQL PROJECT

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1. Who is the senior most employee based on job title?
2. Which countries have the most Invoices?
3. What are top 3 values of total invoice?
4. Which city has the best customers? We would like to throw a promotional Music Festival in the city we made the most money. Write a query that returns one city that has the highest sum of invoice totals. Return both the city name & sum of all invoice totals
5. Who is the best customer? The customer who has spent the most money will be declared the best customer. Write a query that returns the person who has spent the most money

1. Write query to return the email, first name, last name, & Genre of all Rock Music listeners. Return your list ordered alphabetically by email starting with A
2. 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
3. Return all the track names that have a song length longer than the average song length. Return the Name and Milliseconds for each track. Order by the song length with the longest songs listed first

1. 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
2. Write a query that determines the customer that has spent the most on music for each country. Write a query that returns the country along with the top customer and how much they spent. For countries where the top amount spent is shared, provide all customers who spent this amount

Solution

1

```
select * from employee
Order by levels desc
limit 1
```

2

```
select billing_country, count(*) from invoice
group by billing_country
order by count(*)  desc
```

3

```
select total from invoice
order by total desc
limit 3
```

4

```
select sum(total) as total_bill,billing_city from invoice
group by billing_city
order by total_bill desc
```

5

```
select customer.first_name,customer.last_name , sum(invoice.total)as amount from customer
inner join invoice
on customer.customer_id=invoice.customer_id
group by customer.first_name,customer.last_name
order by amount desc
limit 1
```

6

```
select distinct
 customer.email,customer.first_name,customer.last_name from customer
inner join  invoice on customer.customer_id = invoice.customer_id
inner join invoice_line on invoice.invoice_id = invoice_line.invoice_id

where track_id in
                (select track_id from Track
                inner join Genre
                on Track.genre_id = genre.genre_id
                where genre.name= 'Rock')
                order by email
```

7

```
select artist.artist_id,artist.name,count(*)as number_of_song from track
inner join genre on track.genre_id=genre.genre_id
inner join album on album.album_id=track.album_id
inner join artist on artist.artist_id=album.artist_id
where genre.name='Rock'
group by artist.artist_id,artist.name
order by number_of_song desc
limit 10
```

8

```
select name , milliseconds from track
where milliseconds > (select avg(milliseconds)  from track)
order by milliseconds desc
```

9

```
with cte as (select customer.country,genre.name,count(*),
row_number() over(partition by customer.country order by  count(*) desc ) as cc
from customer
inner join  invoice on customer.customer_id = invoice.customer_id
inner join invoice_line on invoice.invoice_id = invoice_line.invoice_id
inner join track on invoice_line.track_id = track.track_id
inner join  genre on track.genre_id = genre.genre_id
group by customer.country,genre.name)
```

```
select first_name,last_name,billing_country,sum  from
(select customer.first_name,customer.last_name, invoice.billing_country, sum(invoice.total),
row_number() over(partition by billing_country order by sum(invoice.total)desc)as cc
from customer
inner join invoice
on customer.customer_id  = invoice.customer_id
group by 1,2,3)as total
where cc = 1
```