Music Store Data Analysis

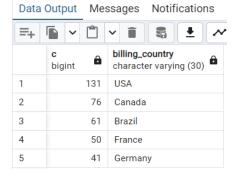
SQL queries with output below:

1. The senior most employee based on job title (identified by level)

select*from employee order by levels desc limit 1;								
	employee_id [PK] character varying (50)	last_name character	first_name character	i	title character varying (50)	reports_to character varying (30)	levels character varying (10)	
1	9	Madan	Mohan		Senior General Manager	[null]	L7	

2. Countries have the most invoices

select count(*) as c, billing_country from invoice group by billing_country order by c desc limit 5;



3. Top 3 values of total invoice

select total from invoice order by total desc limit 3;

	total double precision
1	23.759999999999998
2	19.8
3	19.8

4. City which has the best customers

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

invoice_total
double precision

1 273.240000000000007 Prague

5. Find the best customer with the basis of their spending value

select customer.customer_id, customer.first_name, customer.last_name, sum(invoice.total) as total from customer join invoice on customer.customer_id = invoice.customer_id group by customer.customer_id order by total desc limit 1; customer_id first_name last_name [PK] integer character character double precision 144.540000000000002 R Madhav

6. Return email, first name and last name listening to genre rock where email is listed alphabetically.

	email character varying (50)	first_name character	last_name character	â
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	

7. Top 10 artist who have written most rock music

	[PK] character varying (50)	character varying (120)	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

8. List songs that are longer than the average length of all songs on the basis of milliseconds

select name, milliseconds from track
where milliseconds > (
 select avg(milliseconds)from track
)
order by milliseconds dose;

orae	r by milliseconds	aesc;
	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

9. How much amount spend by each customer on artists?

```
with best_selling_artist as(
select artist.artist_id as artist_id, artist.name as artist_name,
sum(invoice_line.unit_price*invoice_line.quantity) as total_sales
from invoice_line
join track on track.track_id=invoice_line.track_id
join album on album.album_id = track.album_id
join artist on artist.artist_id = album.artist_id
group by 1
order by 3 desc
limit 1)
select customer.customer_id, customer.first_name, customer.last_name,
best_selling_artist.artist_name,
sum(invoice_line.unit_price*invoice_line.quantity)as amount_spent
from invoice
join customer on customer.customer_id = invoice.customer_id
ioin invoice_line on invoice_line.invoice_id = invoice.invoice_id
 oin track on track.track_id = invoice_line.track_id
join album on album.album_id = track.album_id
join best_selling_artist on best_selling_artist.artist_id = album.artist_id
group by 1,2,3,4
order by 5 desc;
      customer_id
                first_name
                            last_name
                                         artist_name amount_spent
                         â
                                                                    â
      integer
                character
                            character
                                         character var double precision
1
            46
                            O'Reilly
                                                     27.71999999999985
                Huah
                                         Oueen
2
                Niklas
            38
                            Schröder
                                         Queen
                                                                 18.81
3
             3
                François
                             Tremblay
                                         Queen
                                                                 17.82
4
                                                     16.8300000000000002
            34
                João
                            Fernandes
                                         Queen
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
                                         Oueen
                                                                 10.89
9
            20
                Dan
                            Miller
                                         Oueen
                                                                  3.96
10
             5
                R
                            Madhav
                                         Queen
                                                                  3.96
```

10. Most popular genre for each country on the basis of highest amount of purchase

```
with popular_genre as
    (
    select count(invoice_line.quantity) as purchases, customer.country,
genre.name, genre.genre_id,
    row_number() over(partition by customer.country order by
count(invoice_line.quantity) desc) as RowNo
    FROM invoice_line
    join invoice on invoice.invoice_id = invoice_line.invoice_id
    join customer on customer.customer_id=invoice.customer_id
    join track on track.track_id =invoice_line.track_id
    join genre on genre.genre_id = track.genre_id
    group by 2,3,4
    order by 2 asc, 1 desc
)
select*from nonular genre where RowNo <=1:</pre>
```

	purchases bigint	country character varying (50)	name character varying (genre_id character varyin	rowno bigint	â
13	44	Hungary	Rock	1		1
14	102	India	Rock	1		1
15	72	Ireland	Rock	1		1
16	35	Italy	Rock	1		1
17	33	Netherlands	Rock	1		1
18	40	Norway	Rock	1		1
19	40	Poland	Rock	1		1
20	108	Portugal	Rock	1		1

11. The customer that have spent most on music for each country

```
with customer_and_country as (
    select customer.customer_id,
customer.first_name,customer.last_name,invoice.billing_country,sum(invoice.to
tal) as total_spending,
    Row Number() over(partition by invoice.billing country order by
```

Row_Number() over(partition by invoice.billing_country order by
sum(invoice.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_and_country where RowNo <= 1;</pre>

	customer_id integer	first_name character	last_name character		billing_country character varying (30)	total_spending double precision	rowno bigint	à
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	60.3899999999999		1
5	1	Luís	Gonçalve	s	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	144.540000000000002		1
9	9	Kara	Nielsen		Denmark	37.61999999999999		1
10	44	Terhi	Hämäläin	en	Finland	79.2		1