

SQL PROJET

Music Store Data Analysis

```
-- Who is the senior most employee based on the Job title?  
select *  
from employee  
order by levels desc  
LIMIT 1
```

```
-- Which countries have the most invoices?  
select billing_country, count(*) as most_invoices  
from invoice  
group by billing_country  
order by most_invoices desc  
limit 1
```

```
-- What are top three values of invoices?  
select total  
from invoice  
order by total desc  
limit 3
```

```
-- Which city has the best customers? We would like to throw a promotional  
-- MusicFestival 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  
-- and sum of all invoice totals.
```

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

```
-- 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.
```

```
select customer_id, sum(total) as best_customer  
from invoice  
group by customer_id  
order by best_customer desc  
limit 1
```

```
-- Write a query to return the email, first name, last name and Genre  
-- of all Rock music listeners Return your list ordered alphabetically  
-- by email starting with A.
```

```
Select distinct email, first_name, last_name  
from customer  
join invoice on customer.customer_id= invoice.customer_id  
join invoice_line on invoice.invoice_id= invoice_line.invoice_id  
where track_id in(  
    select track_id from track  
    join genre on track.genre_id= genre.genre_id  
    where genre.name like 'Rock'  
)  
order by email;
```

```
-- Lets 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 artist.artist_id, artist.name, count(artist.artist_id) as no_of_songs  
from track  
join album2 on album2.album_id= track.album_id  
join artist on artist.artist_id= album2.artist_id  
join genre on genre.genre_id= track.genre_id  
where genre.name like 'Rock'  
group by artist.artist_id, artist.name  
order by no_of_songs desc  
limit 10;
```

```
-- 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.
```

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

```
-- We want to find out the most popular music genre for each country.  
-- We determine the most popular genre as the genre with 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.
```

```
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 popular_genre where RowNo <= 1
```



```
-- 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
```

```
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
```