EASY QUESTION SET

QUES. 1

Who is the senior most employee based on job title?

select employee_id, last_name, first_name, title, levels from employee ORDER BY levels desc LIMIT 5

QUES. 2

Which countries have the most Invoices?

SELECT billing_country, COUNT(billing_country)as "No." from invoice GROUP BY billing_country
ORDER BY "No." DESC

QUES.3

What are top 3 values of total invoice?

SELECT total from invoice limit 5

QUES. 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

SELECT billing_city, sum(total) as total_money FROM invoice GROUP BY (billing_city)
ORDER BY (total_money) DESC

QUES. 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.

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

MODERATE QUESTION SET

QUES. 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.

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 join track on invoice_line.track_id = track.track_id join genre on track.genre_id = genre.genre_id where genre.name = 'Rock' order by email

QUES. 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.

```
SELECT artist.artist_id, artist.name, COUNT (artist.artist_id) as "No. of Songs" FROM artist
JOIN album ON artist.artist_id = album.artist_id
JOIN track ON album.album_id = track.album_id
JOIN genre ON track.genre_id = genre.genre_id
WHERE genre.name LIKE 'Rock'
GROUP BY artist.artist_id
ORDER BY "No. of Songs" DESC
LIMIT 10
```

QUES.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.

ADVANCE QUESTION SET

QUES. 1

Find how much amount is spent by each customer on artists? Write a query to return customer name, artist name and total spent

```
WITH best selling artist AS (
   SELECT artist.artist id, artist.name AS artist name, SUM (invoice line.unit price * invoice line.quantity) as
"total earnings"
         FROM artist
         JOIN album ON artist.artist id = album.artist id
         JOIN track ON album.album id = track.album id
         JOIN invoice line ON track.track id = invoice line.track id
         GROUP BY 1
         ORDER BY 3 DESC
         LIMIT 1
SELECT c.customer_id, c.first_name, c.last_name, bsa.artist_name, bsa.artist_id, SUM(il.unit_price * il.quantity) AS
amount_spent
FROM customer c
JOIN invoice AS i ON c.customer id = i.customer id
JOIN invoice_line AS il ON i.invoice_id = il.invoice_ld
JOIN track t ON il.track_id = t.track_id
JOIN album a ON t.album_id = a.album_id
JOIN best_selling_artist bsa ON a.artist_id = bsa.artist_id
GROUP BY 1, 2, 3, 4, 5
ORDER BY 6 DESC
```

QUES. 2

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.

QUES. 3

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 top_customers AS (

SELECT c.customer_id, c.first_name, c.last_name, i.billing_country, SUM(i.total) as total_spending,

ROW_NUMBER() OVER (PARTITION BY i.billing_country ORDER BY SUM(i.total) DESC) AS row_no

FROM customer c

JOIN invoice i ON c.customer_id = i.customer_id

GROUP BY 1,2,3,4

ORDER BY 4 ASC, 5 DESC
)

SELECT * FROM top_customers WHERE row_no =1
```