# **Question Set 1 - Easy**

# Q1: Who is the senior most employee based on job title?

SELECT \*
FROM music\_database.employee
ORDER BY levels desc
LIMIT 1

### Q2: Which countries have the most Invoices?

SELECT count(\*) as number,billing\_country FROM music\_database.invoice GROUP BY billing\_country ORDER BY number desc

# Q3: What are the top 3 values of the total invoice?

SELECT total FROM music\_database.invoice ORDER BY total desc LIMIT 3 Q4: 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 SUM(total)as invoice\_total, billing\_city FROMfrom music\_database.invoice GROUP BY billing\_city ORDER BY invoice\_total desc LIMIT 1;

Q5: 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**

music\_database.customer. customer\_id, first\_name, last\_name, SUM(total) AS total\_spending FROM music\_database.customer

JOIN music\_database.invoice ON music\_database.customer.customer\_id = music\_database.invoice.customer\_id

GROUP BY music\_database.customer.customer\_id,first\_name,last\_name

ORDER BY total\_spending DESC

LIMIT 1;

/\* Question Set 2 - Moderate \*/

Q1: Write a 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 music_database.customer
JOIN music_database.invoice ON music_database.customer.customer_id = music_database.invoice.customer_id
JOIN music_database.invoice_line ON music_database.invoice_id = music_database.invoice_line.invoice_id
WHERE track_id IN(
SELECT track_id FROM music_database.track
JOIN music_database.genre ON music_database.track.genre_id = music_database.genre.genre_id
WHERE music_database.genre.name LIKE 'Rock'
)
ORDER BY email;
```

Q2: 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 music_database.artist.artist_id,music_database.artist.name,COUNT(music_database.artist.artist_id) as number_of_songs
FROM music_database.track
INNER JOIN music_database.album ON music_database.album.album_id = music_database.track.album_id
INNER JOIN music_database.artistON music_database.artist.artist_id = music_database.album.artist_id
INNER JOIN music_database.genre ON music_database.genre.genre_id = music_database.track.genre_id
WHERE music_database.genre.name LIKE "Rock"
GROUP BY music_database.artist.artist_id
ORDER BY number_of_songs DESC
LIMIT 10;
```

Q3: 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 music\_database.track
WHERE milliseconds > (
SELECT AVG(milliseconds) AS avg\_track\_length
FROM music\_database.track)
ORDER BY milliseconds DESC;