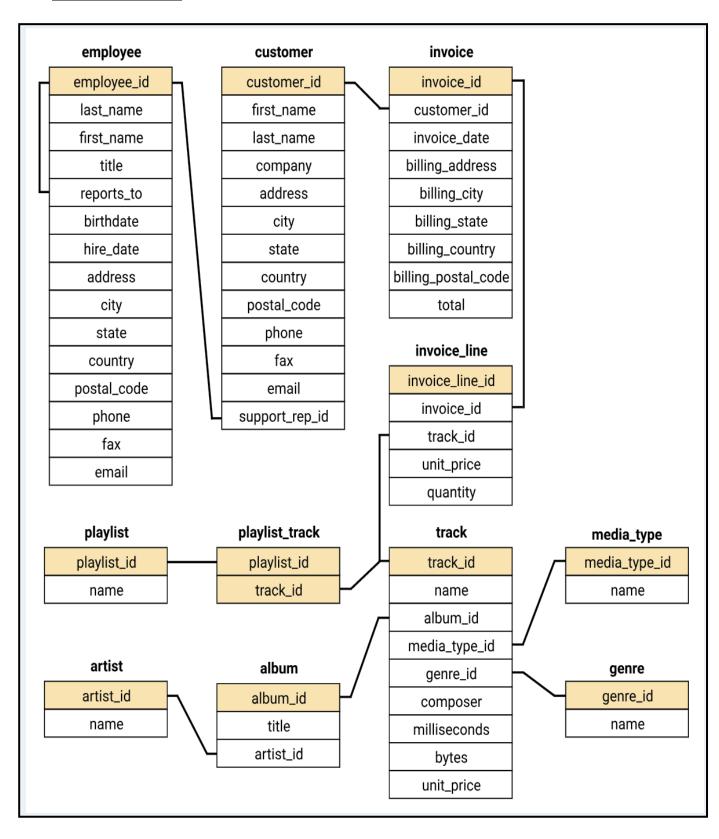
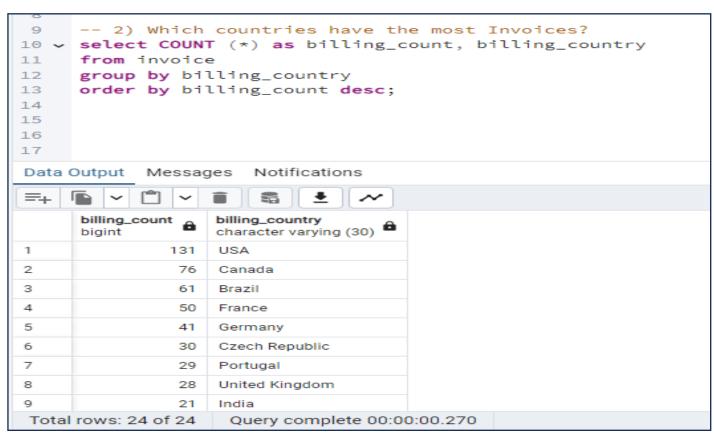
SQL PROJECT- MUSIC STORE DATA ANALYSIS

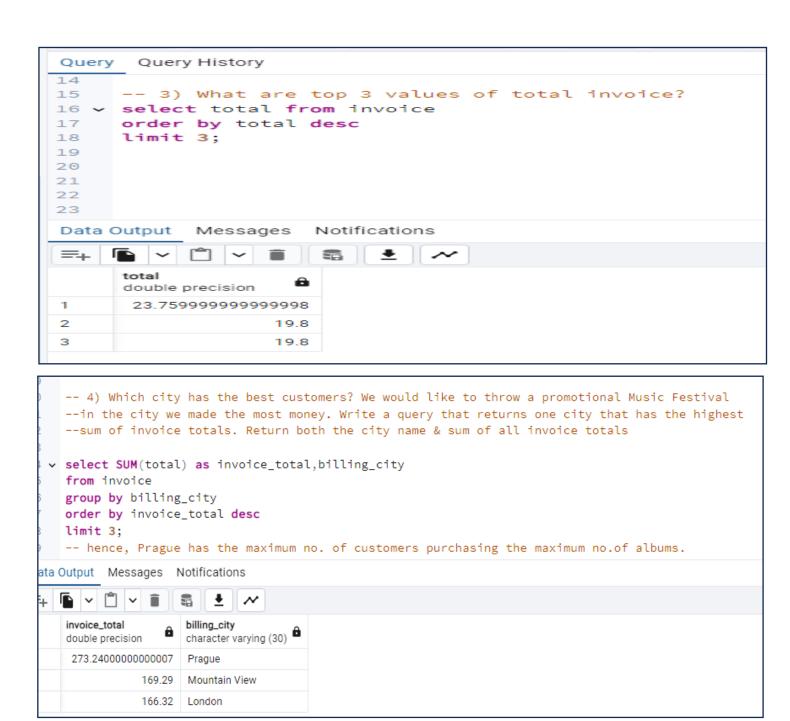
Schema Diagram

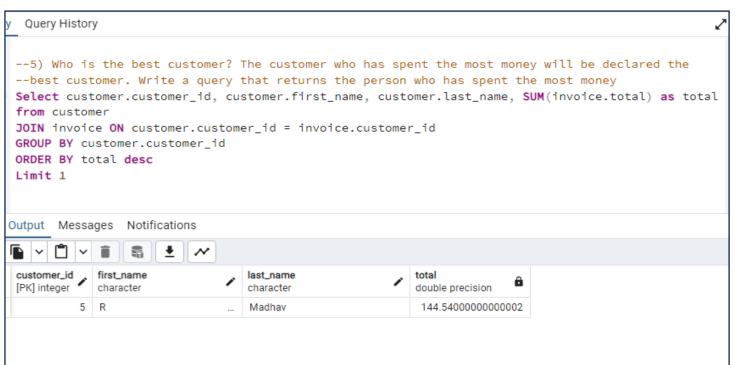


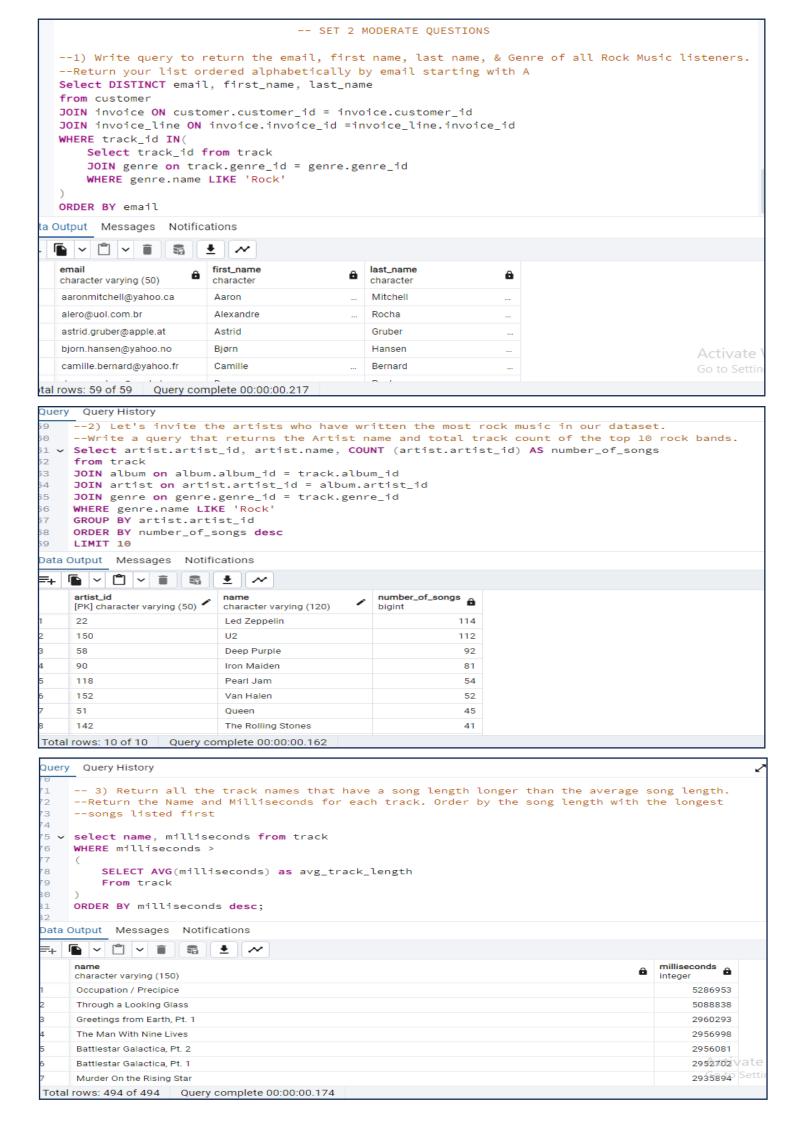
SOL PROJECT- MUSIC STORE DATA ANALYSIS

```
Query Query History
     -- MUSIC STORE DATA ANALYSIS
1
2
     -- SET 1 Easy Questions --
3
     -- 1) Who is the senior most employee based on job title?
4
5 v select * from employee -- first lets view the employee table
     order by levels desc
6
     limit 1
7
8
9
Data Output Messages Notifications
=+
            title
                                                                                                       levels
         last_name
                                    first_name
                                                                                   reports_to
                                                              character varying (50)
                                                                                   character varying (30)
         character
                                    character
                                                                                                       character varying (
         Madan
                                    Mohan
                                                              Senior General Manager
                                                                                                       17
1
```









```
Query History
                                -- SET 3 ADVANCE QUESTIONS
-- 1) Find how much amount 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 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_
    SUM(invoice_line.unit_price*invoice_line.quantity) AS amount_spent
FROM invoice
JOIN customer ON customer.customer_id = invoice.customer_id
JOIN invoice_line ON invoice_line.invoice_id = invoice.invoice_id
JOIN 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 customer.customer_id,customer.first_name,customer.last_name,best_selling_artist.artist_n
ORDER BY amount_spent DESC;
```

-- 1) Find how much amount spent by each customer on artists? Write a query to return customer --name, artist name and total spent. Output Messages Notifications ~ 霜 first_name last_name artist_name amount_spent 8 character varying (120) integer character character double precision O'Reilly 27.719999999999985 Oueen 46 Hugh 38 Niklas Schröder Oueen 18.81 3 François 17.82 Tremblay Queen 34 João Fernandes Queen 16.8300000000000002 Phil 53 Hughes Queen 11.88 41 Dubois Queen 11.88 47 Lucas Mancini Queen 10.89 Ellie 33 Sullivan Oueen 10.89 20 Dan Miller Queen 3.96 5 R Madhay 3.96 Queen

```
Query History
Query
     --2) We want to find out the most popular music Genre for each country. We determine the most
.10
11
     --popular genre as the genre with the highest amount of purchases. Write a query that returns
12
     --each country along with the top Genre. For countries where the maximum number of purchases is
13
     --shared return all Genres
14
115 v WITH popular_genre AS
16
17
         SELECT COUNT (invoice_line.quantity) AS purchases, customer.country, genre.name, genre.genre_id,
18
           ROW_NUMBER() OVER (PARTITION BY customer.country ORDER BY COUNT(invoice_line.quantity)DESC)
19
           AS Row No
20
         FROM invoice_line
         JOIN invoice on invoice.invoice_id = invoice_line.invoice_id
21
22
         JOIN customer on customer.customer_id = invoice.customer_id
         JOIN track on track.track_id = invoice_line.track_id
23
24
         JOIN genre on genre.genre_id = track.genre_id
         GROUP BY 2,3,4
25
         ORDER BY 2 ASC, 1 DESC
26
127
28
     SELECT * from popular_genre WHERE Row_No<=1;</pre>
```

