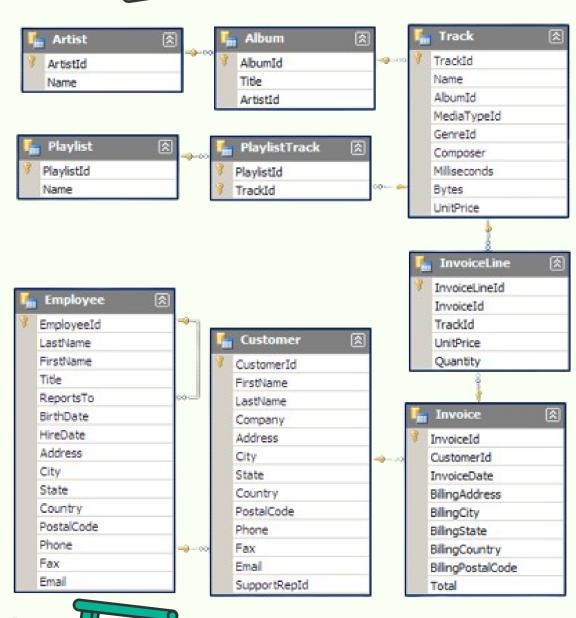






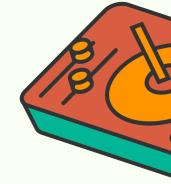


DATABASE SCHEMA











```
Query
      Query History
 1
 2
   /* Q1: Who is the senior most employee based on job title? */
    SELECT title, first_name, last_name
   FROM employee
    ORDER BY levels DESC
 6
   LIMIT 1;
 7
    /* Q2: Which countries have the most Invoices? */
    SELECT COUNT(*) AS c,billing_country
10
   FROM invoice
11
    GROUP BY billing_country
12
    ORDER BY c DESC;
13
14
   /* Q3: What are top 3 values of total invoice? */
15
    SELECT total
16
    FROM invoice
    ORDER BY total DESC
17
18 LIMIT 3;
19
```

```
21
   /* 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.
23
24
    Return both the city name & sum of all invoice totals */
25
26
   SELECT billing_country, SUM(total) AS invoicetotal
   FROM invoice
27
28
   GROUP BY billing country
   ORDER BY invoicetotal DESC
29
   LIMIT 1;
30
   /* Q5: Who is the best customer? The customer who has spent the most money will be declared the
31
32
    Write a query that returns the person who has spent the most money.*/
33
34
    SELECT customer.customer_id, first_name, last_name, SUM(total) AS total_spending
   FROM customer
35
36
    JOIN invoice ON customer.customer_id = invoice.customer_id
   GROUP BY customer.customer_id
37
38
   ORDER BY total_spending DESC
   LIMIT 1;
39
```

```
Query
      Query History
40
41
42
43
    /* Q6: Write query to return the email, first name, last name,
44
45
    & Genre of all Rock Music listeners.
46
    Return your list ordered alphabetically by email starting with A. */
47
    SELECT DISTINCT email, first_name, last_name
48
    FROM customer
49
    JOIN invoice ON customer.customer_id = invoice.customer_id
50
    JOIN invoice_line ON invoice.invoice_id = invoice_line.invoice_id
51
    WHERE track id IN(
52
         SELECT track id FROM track
53
         JOIN genre ON track.genre_id = genre.genre_id
54
         WHERE genre.name LIKE 'Rock'
55
56
    ORDER BY email;
57
58
59
```

```
Query
      Query History
58
59
60
61
    /* 07: Let's invite the artists who have written the most rock music in our dataset.
    Write a query that returns the Artist name and
62
63
    total track count of the top 10 rock bands. */
64
65
    SELECT artist_artist_id, artist.name, COUNT(artist.artist_id) AS number_of_songs
66
    FROM track
67
    JOIN album ON album.album id = track.album id
68
    JOIN artist ON artist.artist_id = album.artist_id
    JOIN genre ON genre.genre_id = track.genre_id
69
    WHERE genre.name LIKE 'Rock'
70
71
    GROUP BY artist.artist id
72
    ORDER BY number of songs DESC
73
    LIMIT 10;
74
75
```

```
Query
     Query History
74
75
    /* Q8: Return all the track names that have a song
76
    length longer than the average song length.
77
    Return the Name and Milliseconds for each track.
78
    Order by the song length with the longest songs listed first. */
79
    SELECT name, miliseconds
80
    FROM track
81
    WHERE miliseconds > (
82
        SELECT AVG(miliseconds) AS avg_track_length
83
        FROM track )
84
    ORDER BY miliseconds DESC;
85
86
```

```
96
    /* Q9: Find how much amount spent by each customer on artists?
97
     Write a query to return customer name, artist name and total spent */
98
99
     WITH best selling artist AS (
100
         SELECT artist_artist_id AS artist_id, artist.name AS artist_name,
101
         SUM(invoice_line.unit_price*invoice_line.quantity) AS total_sales
102
         FROM invoice line
103
         JOIN track ON track.track id = invoice line.track id
104
         JOIN album ON album.album_id = track.album_id
105
         JOIN artist ON artist.artist id = album.artist id
106
         GROUP BY 1
107
         ORDER BY 3 DESC
108
         LIMIT 1
109
110
     SELECT c. customer id, c. first name, c. last name, bsa.artist name,
111
     SUM(il.unit_price*il.quantity) AS amount_spent
112
     FROM invoice i
113
     JOIN customer c ON c.customer_id = i.customer_id
114
     JOIN invoice line il ON il.invoice id = i.invoice id
115
     JOIN track t ON t.track id = il.track id
116
     JOIN album alb ON alb.album_id = t.album_id
117
     JOIN best selling artist bsa ON bsa.artist id = alb.artist id
118
     GROUP BY 1,2,3,4
```

```
ly Query History
```

```
/* Q2: 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. */
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
```





THANKS!





