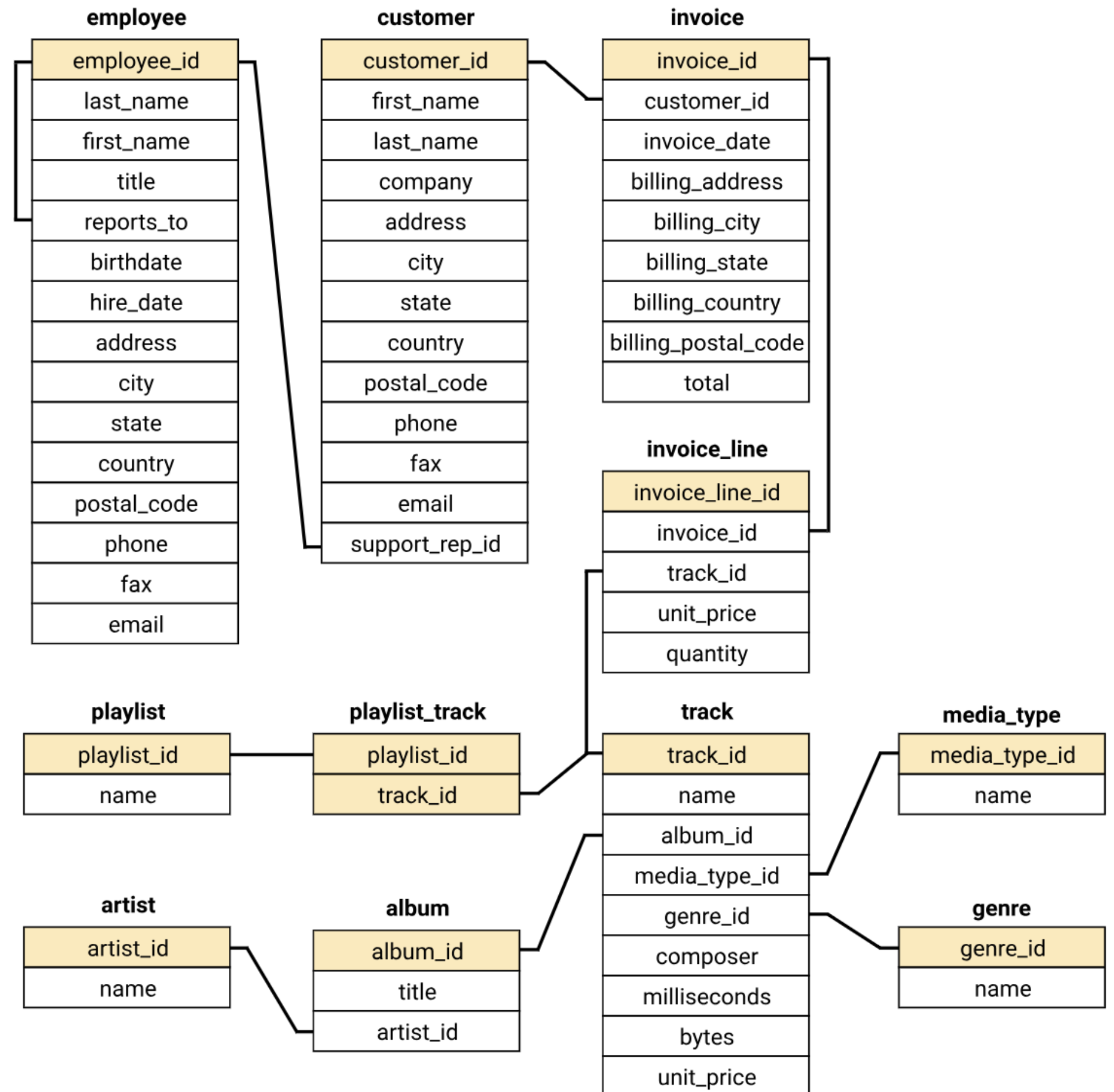# Music Store Data Analysis

SQL Project

Project Schema

This is a Music store data with 11 files. With Artist data, track data, employee data, customer data, and invoice data.

which countries have the most invoice?

```
1    -- which countries have the most invoice
2
3 •  select billing_country, count(invoice_id)
4    from invoice
5    group by billing_country
6    order by count(invoice_id) desc limit 1;
```

billing_country	count(invoice_id)
USA	131

Top10 Artist with most tracks in rock.

```sql
1     -- artist with most tracks in rock by top 10 rockbands
2
3  ●  select count(artist.artist_id) as t, artist.name as name
4     from track
5     join album2 on track.album_id = album2.album_id
6     join artist on album2.artist_id = artist.artist_id
7     join genre on genre.genre_id = track.genre_id
8       where genre.name like 'Rock'
9       group by name
10      order by t desc limit 10;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

t	name
18	AC/DC
15	Aerosmith
14	Audioslave
14	Led Zeppelin
13	Alanis Morissette
12	Alice In Chains
9	Frank Zappa & Captain Beefheart
4	Accept

Find songs longer than average songs, name and milliseconds?

```sql
1    -- find songs longer than average songs , name and milliseconds.
2
3  • select name, milliseconds
4    from track
5    where milliseconds > (select avg(milliseconds) from track)
6    order by milliseconds desc;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

name	milliseconds
How Many More Times	711836
Advance Romance	677694
Sleeping Village	644571
You Shook Me(2)	619467
Talkin' 'Bout Women Obviously	589531
Stratus	582086
No More Tears	555075
The Alchemist	509413
Wheels Of Confusion / The Straightener	494524
Book Of Thel	494393
You Oughta Know (Alternate)	491885
Terra	482429
Snoopy's search-Red baron	456071

Find the amount spent by each customer on artists, customer name and total spend.

```sql
1    -- find the amount spend by each customer on artists .
2    -- cust name, artist name and total spent.
3
4  ● SELECT customer.first_name AS f, customer.last_name AS l,
5        SUM(invoice_line.unit_price * invoice_line.quantity) AS summ,
6        artist.name AS a
7    FROM
8    customer JOIN invoice ON customer.customer_id = invoice.customer_id
9    JOIN invoice_line ON invoice_line.invoice_id = invoice.invoice_id
10   JOIN track ON invoice_line.track_id = track.track_id
11   JOIN album2 ON track.album_id = album2.album_id
12   JOIN artist ON album2.artist_id = artist.artist_id
13   GROUP BY f , l , a
14   ORDER BY a , summ;
```

Result Grid | 🔢 | 🔀 Filter Rows: | Export: 💾 | Wrap Cell Content: 🅰

f	l	summ	a
Rishabh	Mishra	0.99	AC/DC
Fernanda	Ramos	0.99	AC/DC
Mark	Philips	0.99	AC/DC
Ladislav	KovÃics	0.99	AC/DC
Aaron	Mitchell	0.99	AC/DC
Richard	Cunningham	0.99	AC/DC
Lucas	Mancini	0.99	AC/DC
Robert	Brown	0.99	AC/DC

Find most popular genre for each country by amount of purchase.

```sql
1    -- find most popular genre for each country  by amount of purchase.
2
3  • with popular_genre as
4  ⊖ (   select count(invoice_line.quantity) as purchases,
5        customer.country, genre.name, genre.genre_id,
6        row_number() over(partition by customer.country order by count(invoice_line.quantity) desc)
7        as rowno
8        from invoice_line join invoice on invoice.invoice_id = invoice_line.invoice_id
9        join customer on customer.customer_id = invoice.customer_id
10       join track on track.track_id = invoice_line.track_id
11       join genre on genre.genre_id = track.genre_id
12       group by 2,3,4
13       order by 2 asc, 1 desc  )
14   select * from popular_genre where rowno <= 1
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

purchases	country	name	genre_id	rowno
1	Argentina	Rock	1	1
18	Australia	Rock	1	1
6	Austria	Rock	1	1
5	Belgium	Rock	1	1
26	Brazil	Rock	1	1
57	Canada	Rock	1	1
7	Chile	Rock	1	1
14	Czech Republic	Rock	1	1
6	Denmark	Rock	1	1

Result 5 ✕

Read Only

THANK YOU

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