SQL PROJECT ON MUSIC STORE DATA ANALYSIS
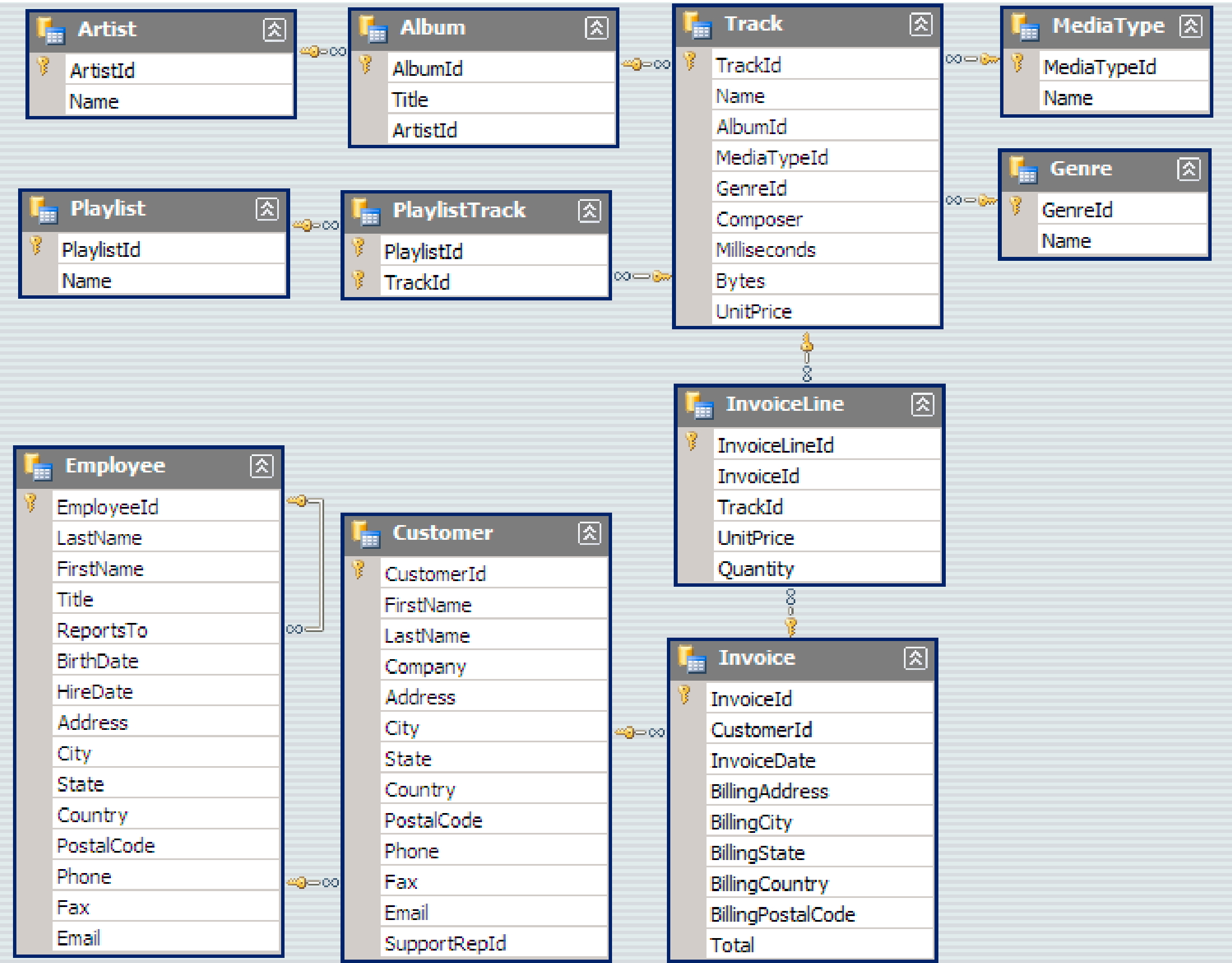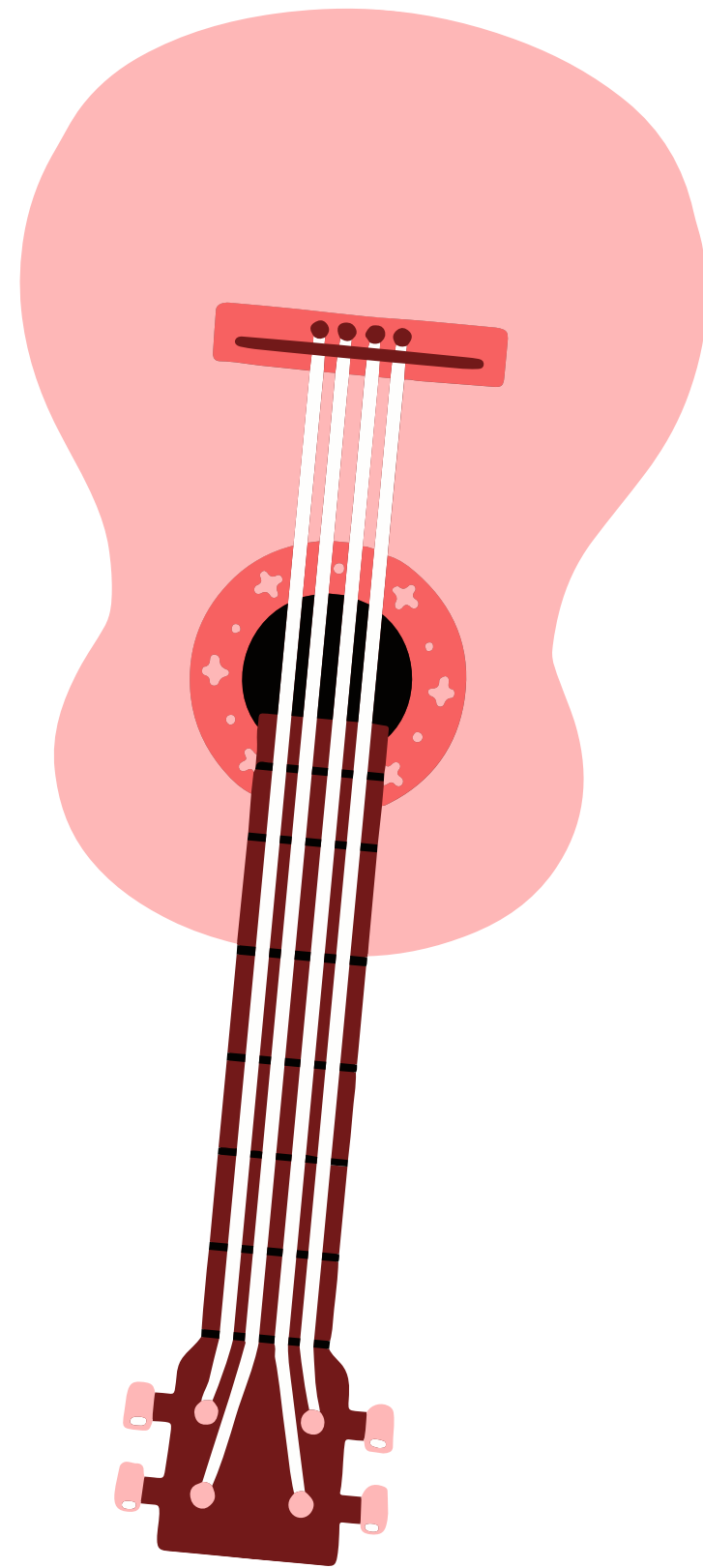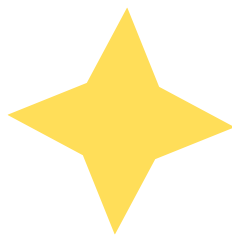
ABOUT THE PROJECT

THIS PROJECT FOCUSES ON ANALYZING A MUSIC PLAYLIST DATABASE TO DERIVE ACTIONABLE INSIGHTS .
A DEEPER UNDERSTANDING OF ESSENTIAL SQL CONCEPTS AND QUERIES, RANGING FROM BASIC TO INTERMEDIATE LEVELS. ALSO PROVIDE VALUABLE INSIGHTS INTO THE MUSIC STORE'S OPERATIONS, SUCH AS POPULAR PLAYLISTS, CUSTOMER PREFERENCES, AND REVENUE TRENDS.

SCHEMA- MUSIC STORE DATABASE

Artist
- ArtistId
- Name

Album
- AlbumId
- Title
- ArtistId

Track
- TrackId
- Name
- AlbumId
- MediaTypeId
- GenreId
- Composer
- Milliseconds
- Bytes
- UnitPrice

MediaType
- MediaTypeId
- Name

Genre
- GenreId
- Name

Playlist
- PlaylistId
- Name

PlaylistTrack
- PlaylistId
- TrackId

InvoiceLine
- InvoiceLineId
- InvoiceId
- TrackId
- UnitPrice
- Quantity

Employee
- EmployeeId
- LastName
- FirstName
- Title
- ReportsTo
- BirthDate
- HireDate
- Address
- City
- State
- Country
- PostalCode
- Phone
- Fax
- Email

Customer
- CustomerId
- FirstName
- LastName
- Company
- Address
- City
- State
- Country
- PostalCode
- Phone
- Fax
- Email
- SupportRepId

Invoice
- InvoiceId
- CustomerId
- InvoiceDate
- BillingAddress
- BillingCity
- BillingState
- BillingCountry
- BillingPostalCode
- Total

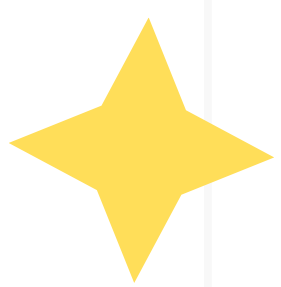# Q1: WHO IS THE SENIOR MOST EMPLOYEE BASED ON JOB TITLE?

```sql
create database music;
use music;



SELECT
    *
FROM
    employee
ORDER BY levels DESC
LIMIT 1;
```

employee_id	first_name	last_name	title	levels	city
1	Andrew	Adams	General Manager	L6	Edmonton

Q2: WHICH COUNTRIES HAVE THE MOST INVOICES?

```sql
SELECT
    COUNT(*) AS highest_invoice, billing_country
FROM
    invoice
GROUP BY billing_country
HAVING COUNT(*)
ORDER BY highest_invoice DESC
LIMIT 3;
```

highest_invoice	billing_country
131	USA
76	Canada
61	Brazil

Q3: WHAT ARE TOP 3 VALUES OF TOTAL INVOICE?

```sql
SELECT
    total
FROM
    invoice
ORDER BY total DESC
LIMIT 3;
```

▶ 23.75999999999998
19.8
19.8

Q4: WHICH CITY HAS THE BEST CUSTOMERS? WRITE A QUERY THAT RETURNS 3 CITY WITH THE HIGHEST INVOICE TOTALS. ?
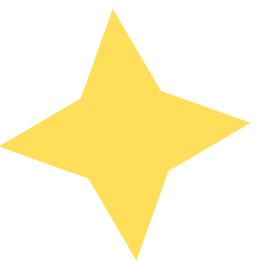
```sql
SELECT
    SUM(total) AS total_invoice, billing_city
FROM
    invoice
GROUP BY billing_city
ORDER BY total_invoice desc
LIMIT 3;
```

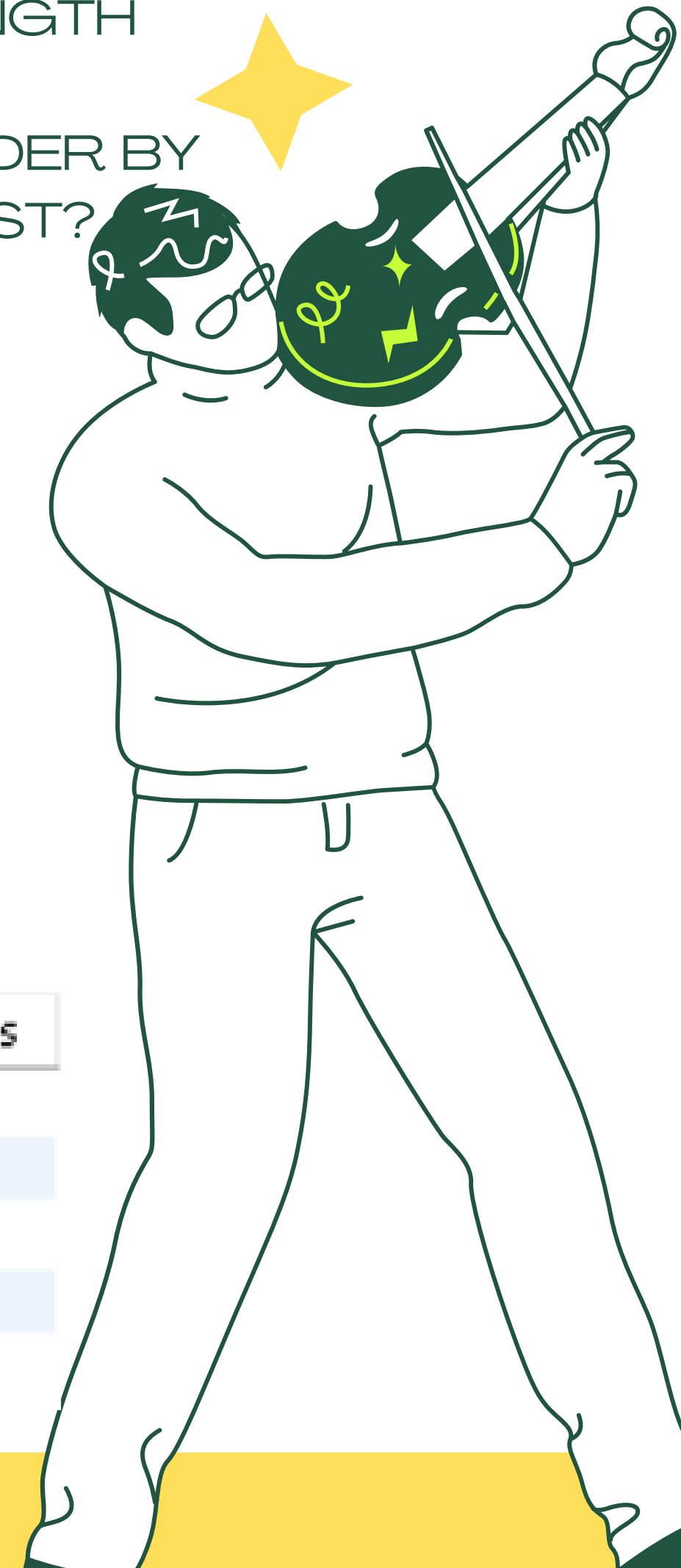| total_invoice	billing_city
273.2400000000007	Prague
169.29	Mountain View
166.32	London

Q6: 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?

```sql
SELECT
    name, milliseconds
FROM
    track
WHERE
    milliseconds < (SELECT
        AVG(milliseconds) AS avg_track
        FROM
            track)
ORDER BY milliseconds DESC
limit 5;
```

name	milliseconds
Eat The Rich	251036
Girassol	249808
MacÃ´	249600
What You Are	249391
You Oughta Know	249234

THANK YOU