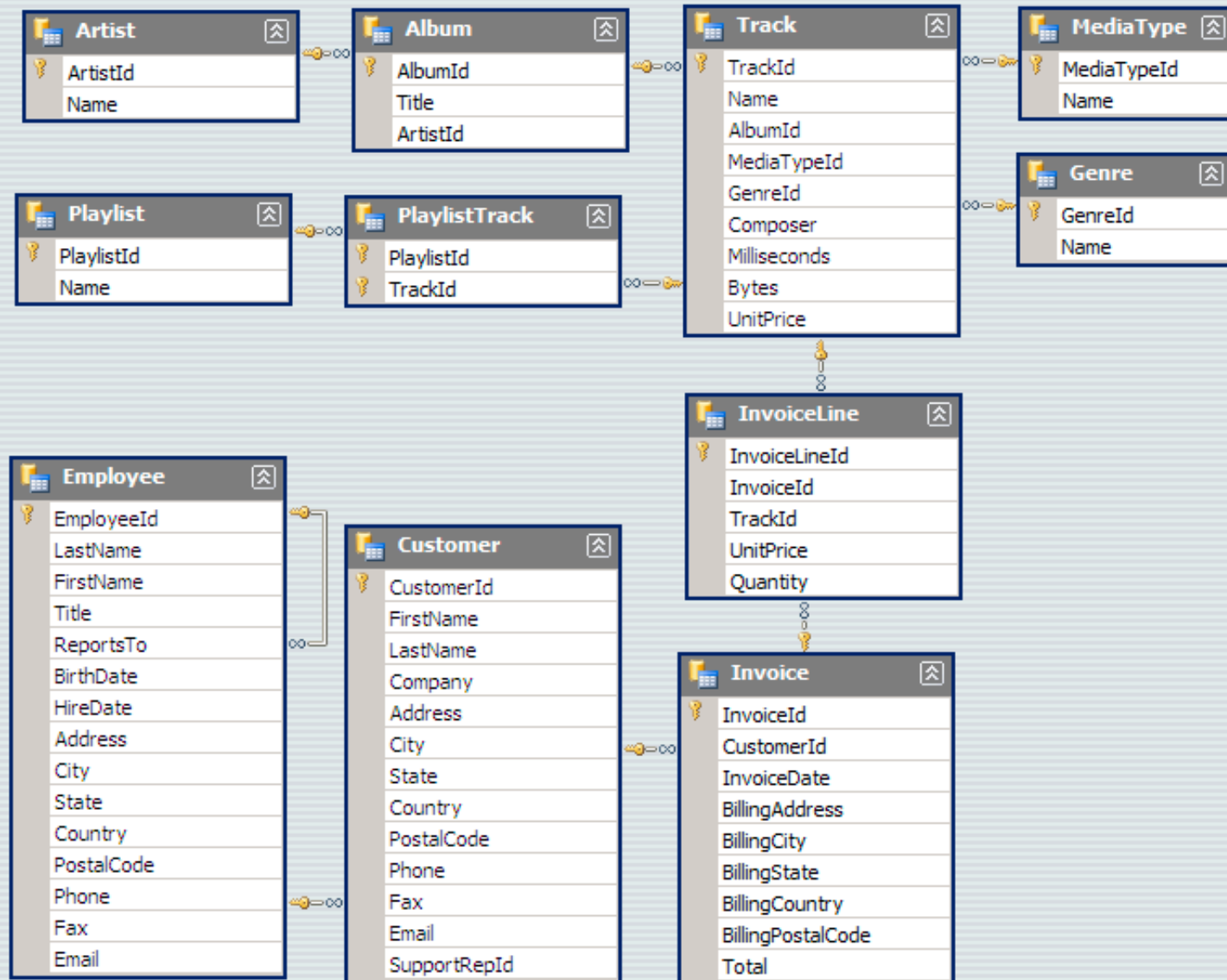


The image features a dark blue background with several yellow musical notes scattered around the central text. There are eight notes in total, each consisting of a yellow stem with two circular notes. The notes are positioned at various angles and locations: one at the top left, one at the top center, one at the top right, one on the middle right, one at the bottom right, one at the bottom center, one at the bottom left, and one on the middle left.

MUSIC STORE ANALYSIS USING SQL

BY ARYAN
MATHUR

SCHEMA



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

SOLUTION

```
select first_name,last_name, levels from employee  
order by levels desc  
limit 1
```

OUTPUT

	first_name character		last_name character		levels character varying (10)
1	Mohan	...	Madan	...	L7

Q2: WHICH COUNTRIES HAVE THE MOST INVOICES?

SOLUTION

```
select billing_country, count(*) as invoice_count from invoice
group by billing_country
order by invoice_count desc
```

OUTPUT


	billing_country character varying (30) 🔒	invoice_count bigint 🔒
1	USA	131
2	Canada	76
3	Brazil	61
4	France	50
5	Germany	41
6	Czech Republic	30
7	Portugal	29
8	United Kingdom	28
9	India	21
10	Chile	13
11	Ireland	13

Q3: WHAT ARE TOP 3 VALUES OF TOTAL INVOICES

SOLUTION

```
select total from invoice  
order by total desc  
limit 3
```

OUTPUT

	total double precision 
1	23.7599999999999998
2	19.8
3	19.8

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

SOLUTION

```
select billing_city, sum(total) as summ from invoice
group by billing_city
order by summ desc
```

OUTPUT





	billing_city character varying (30) 	summ double precision 
1	Prague	273.240000000000007
2	Mountain View	169.29
3	London	166.32
4	Berlin	158.4
5	Paris	151.47
6	São Paulo	129.69
7	Dublin	114.839999999999997
8	Delhi	111.869999999999999
9	São José dos Campos	108.899999999999998
10	Brasília	106.919999999999999
11	Lisbon	102.960000000000001

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

SOLUTION

```
select customer.customer_id, customer.first_name, customer.last_name, sum(invoice.total) as highest_invoice_total from customer
join invoice on customer.customer_id=invoice.customer_id
group by customer.customer_id
order by highest_invoice_total desc
limit 1
```

OUTPUT

	customer_id [PK] integer 	first_name character 	last_name character 	highest_invoice_total double precision 
1	5	R ...	Madhav	144.540000000000002

Q6: WRITE 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'

SOLUTION

```
select distinct email, first_name, last_name from customer
join invoice on customer.customer_id=invoice.customer_id
join invoice_line on invoice.invoice_id=invoice_line.invoice_id
join track on invoice_line.track_id=track.track_id
join genre on genre.genre_id=track.genre_id
where genre.name='Rock' -- or genre.name like 'Rock'
order by email
```

OUTPUT



	email character varying (50) 🔒	first_name character 🔒	last_name character 🔒
1	aaronmitchell@yahoo.ca	Aaron	Mitchell
2	alero@uol.com.br	Alexandre	Rocha
3	astrid.gruber@apple.at	Astrid	Gruber
4	bjorn.hansen@yahoo.no	Bjørn	Hansen
5	camille.bernard@yahoo.fr	Camille	Bernard
6	daan_peeters@apple.be	Daan	Peeters
7	diego.gutierrez@yahoo.ar	Diego	Gutiérrez
8	dmiller@comcast.com	Dan	Miller
9	dominiquelefebvre@gmail.c...	Dominique	Lefebvre
10	edfrancis@yahoo.ca	Edward	Francis
11	eduardo@woodstock.com.br	Eduardo	Martins

Q7: 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

SOLUTION

```
select artist.name, count(artist.artist_id) as Number_of_songs from artist
join album on album.artist_id=artist.artist_id
join track on album.album_id=track.album_id
join genre on genre.genre_id=track.genre_id
where genre.name='Rock'
group by artist.artist_id
order by number_of_songs desc
limit 10
```

OUTPUT

	name character varying (120) 	number_of_songs bigint 
1	Led Zeppelin	114
2	U2	112
3	Deep Purple	92
4	Iron Maiden	81
5	Pearl Jam	54
6	Van Halen	52
7	Queen	45
8	The Rolling Stones	41
9	Creedence Clearwater Revival	40
10	Kiss	35

Q8: 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

SOLUTION

```
select name, milliseconds from track
where milliseconds >= (
    select avg(milliseconds) from track
)
order by milliseconds desc
```

OUTPUT

	name character varying (150) 	milliseconds integer 
1	Occupation / Precipice	5286953
2	Through a Looking Glass	5088838
3	Greetings from Earth, Pt. 1	2960293
4	The Man With Nine Lives	2956998
5	Battlestar Galactica, Pt. 2	2956081
6	Battlestar Galactica, Pt. 1	2952702
7	Murder On the Rising Star	2935894
8	Battlestar Galactica, Pt. 3	2927802
9	Take the Celestra	2927677
10	Fire In Space	2926593
11	The Long Patrol	2925008

**THANK
YOU**

