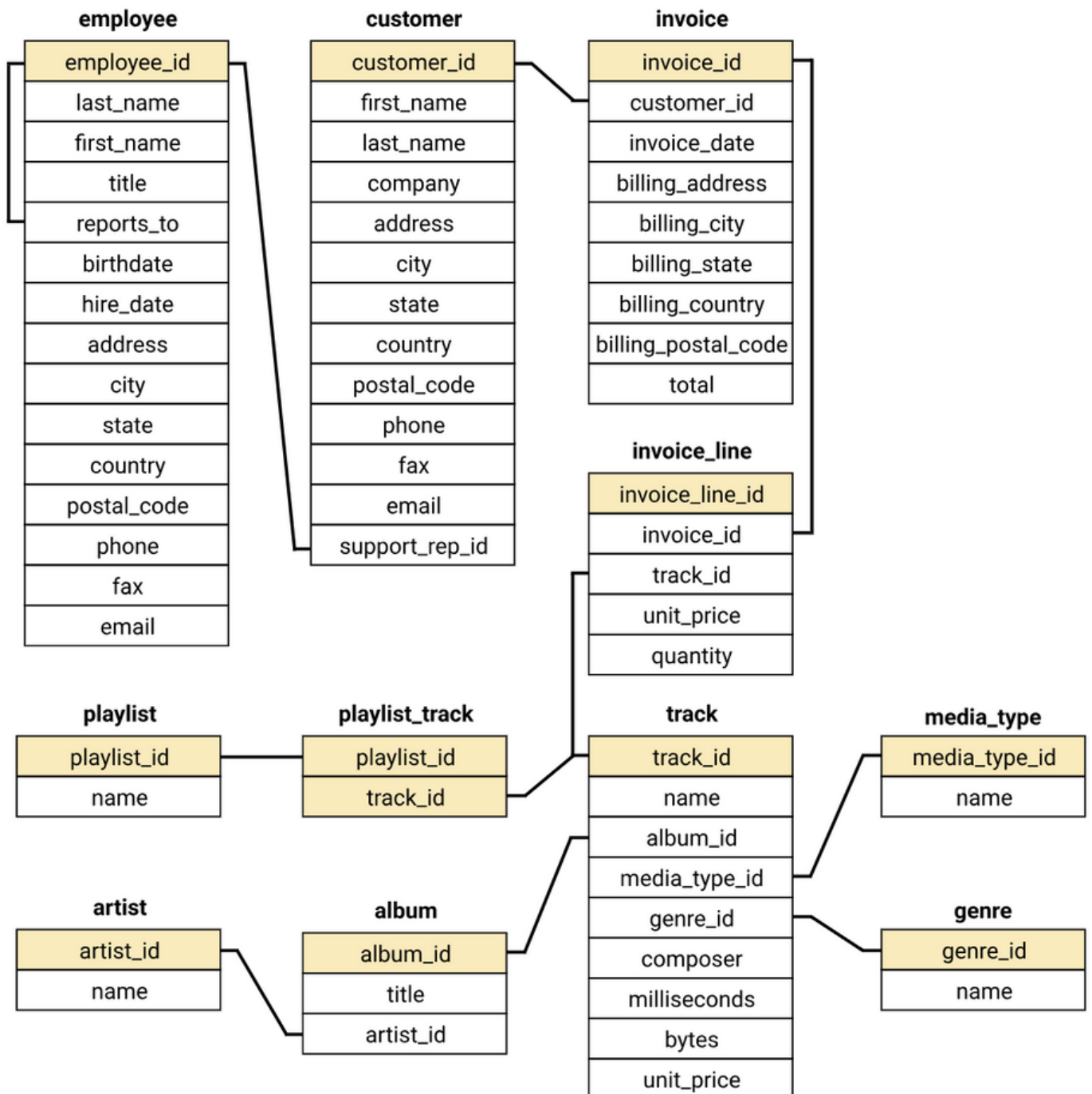


Music Store Sales Analysis - SQL CASE STUDY



CREATED BY
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SCHEMA DIAGRAM



1. WHO IS THE SENIOR MOST EMPLOYEE BASED ON JOB TITLE?

```
SELECT first_name,last_name,title FROM employee
ORDER BY levels DESC
LIMIT 1;
```

OUTPUT

first_name	last_name	title
Mohan	Madan	Senior General Manager

2. WHICH COUNTRIES HAVE THE MOST INVOICES?

```
SELECT C.country,COUNT(I.invoice_id) AS most_Invoices
FROM customer AS C
JOIN invoice AS I USING(customer_id)
GROUP BY C.country
ORDER BY COUNT(I.invoice_id) DESC;
```

OUTPUT

country	most_Invoices
USA	131
Canada	76
Brazil	61
France	50
Germany	41
Czech Republic	30
Portugal	29
United Kingdom	28
India	21

3. WHAT ARE TOP 3 VALUES OF TOTAL INVOICE?

```
SELECT CEIL(total) AS top_3 FROM invoice
ORDER BY total DESC
LIMIT 3;
```


OUTPUT

```
top_3
```

```
24
```

```
20
```

```
20
```

4. WHICH CITY HAS THE BEST CUSTOMERS?

```
SELECT C.city,SUM(I.total) AS TOTAL  
FROM customer AS C  
JOIN invoice AS I USING(customer_id)  
GROUP BY C.city  
ORDER BY SUM(I.total) DESC  
LIMIT 1;
```

OUTPUT

city	TOTAL
Prague	273.24

5. WHO IS THE BEST CUSTOMER?

```
SELECT C.first_name,C.last_name,SUM(I.total) AS TOTAL
FROM customer AS C
JOIN invoice AS I USING(customer_id)
GROUP BY C.first_name,C.last_name
ORDER BY SUM(I.total) DESC
LIMIT 1;
```

OUTPUT

first_name	last_name	TOTAL
František	Wichterlová	144.54

6. 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

```
SELECT C.email,C.first_name,C.last_name,G.name
FROM genre AS G
JOIN track USING(genre_id)
JOIN invoice_line USING(track_id)
JOIN invoice USING(invoice_id)
JOIN customer AS C USING (customer_id)
WHERE G.name = "Rock"
ORDER BY C.email ASC;
```

OUTPUT

[illegible]

7. 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

```
SELECT A.name,COUNT(T.track_id) AS total,G.name
FROM artist AS A
JOIN album USING(artist_id)
JOIN track AS T USING(album_id)
JOIN genre AS G USING(genre_id)
WHERE G.name LIKE "Rock"
GROUP BY A.name
ORDER BY COUNT(T.track_id) DESC
LIMIT 10;
```

OUTPUT

name	total	name
Led Zeppelin	114	Rock
U2	112	Rock
Deep Purple	92	Rock
Iron Maiden	81	Rock
Pearl Jam	54	Rock
Van Halen	52	Rock
Queen	45	Rock
The Rolling Stones	41	Rock
Creedence Clearwater Revival	40	Rock

8. 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

```
WITH length AS(  
    SELECT AVG(milliseconds) AS Time  
    FROM track)  
SELECT T.name,T(milliseconds),L.Time  
FROM track AS T  
JOIN length AS L  
WHERE T(milliseconds) > L.Time  
GROUP BY T.name  
ORDER BY T(milliseconds) DESC;
```

OUTPUT

name	milliseconds	Time
Occupation / Precipice	5286953	393599.2121039109
Through a Looking Glass	5088838	393599.2121039109
Greetings from Earth, Pt. 1	2960293	393599.2121039109
The Man With Nine Lives	2956998	393599.2121039109
Battlestar Galactica, Pt. 2	2956081	393599.2121039109
Battlestar Galactica, Pt. 1	2952702	393599.2121039109
Murder On the Rising Star	2935894	393599.2121039109
Battlestar Galactica, Pt. 3	2927802	393599.2121039109
Take the Celestra	2927677	393599.2121039109

9. FIND HOW MUCH AMOUNT SPENT BY EACH CUSTOMER ON ARTISTS? WRITE A QUERY TO RETURN --CUSTOMER NAME, ARTIST NAME AND TOTAL SPENT

```
SELECT C.first_name,C.last_name,A.name,SUM(IL.unit_price*IL.quantity) AS TOTAL
FROM artist AS A
JOIN album USING(artist_id)
JOIN track USING(album_id)
JOIN invoice_line AS IL USING(track_id)
JOIN invoice AS I USING(invoice_id)
JOIN customer AS C USING(customer_id)
GROUP BY C.first_name,C.last_name,A.name
ORDER BY SUM(IL.unit_price*IL.quantity) DESC;
```

OUTPUT

first_name	last_name	name	TOTAL
Hugh	O'Reilly	Queen	27.72
Wyatt	Girard	Frank Sinatra	23.759999999999998
Aaron	Mitchell	James Brown	19.8
František	Wichterlová	Kiss	19.8
François	Tremblay	The Who	19.8
Helena	Holý	Red Hot Chili Peppers	19.8
Robert	Brown	Creedence Clearwater Revival	19.8
Heather	Leacock	House Of Pain	18.81
Hugh	O'Reilly	Nirvana	18.81

10. 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

```
SELECT G.name AS genre_name,C.country,COUNT(IL.quantity) AS TOTAL
FROM genre AS G
JOIN track USING(genre_id)
JOIN invoice_line AS IL USING(track_id)
JOIN invoice USING(invoice_id)
JOIN customer AS C USING(customer_id)
GROUP BY C.country,G.name
ORDER BY C.country ASC,COUNT(IL.quantity) DESC;
```

OUTPUT

genre_name	country	TOTAL
Alternative & Punk	Argentina	17
Rock	Argentina	11
R&B/Soul	Argentina	2
Metal	Argentina	2
Latin	Argentina	2
Blues	Argentina	2
Reggae	Argentina	1
Heavy Metal	Argentina	1
Easy Listening	Argentina	1

Thank You

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