



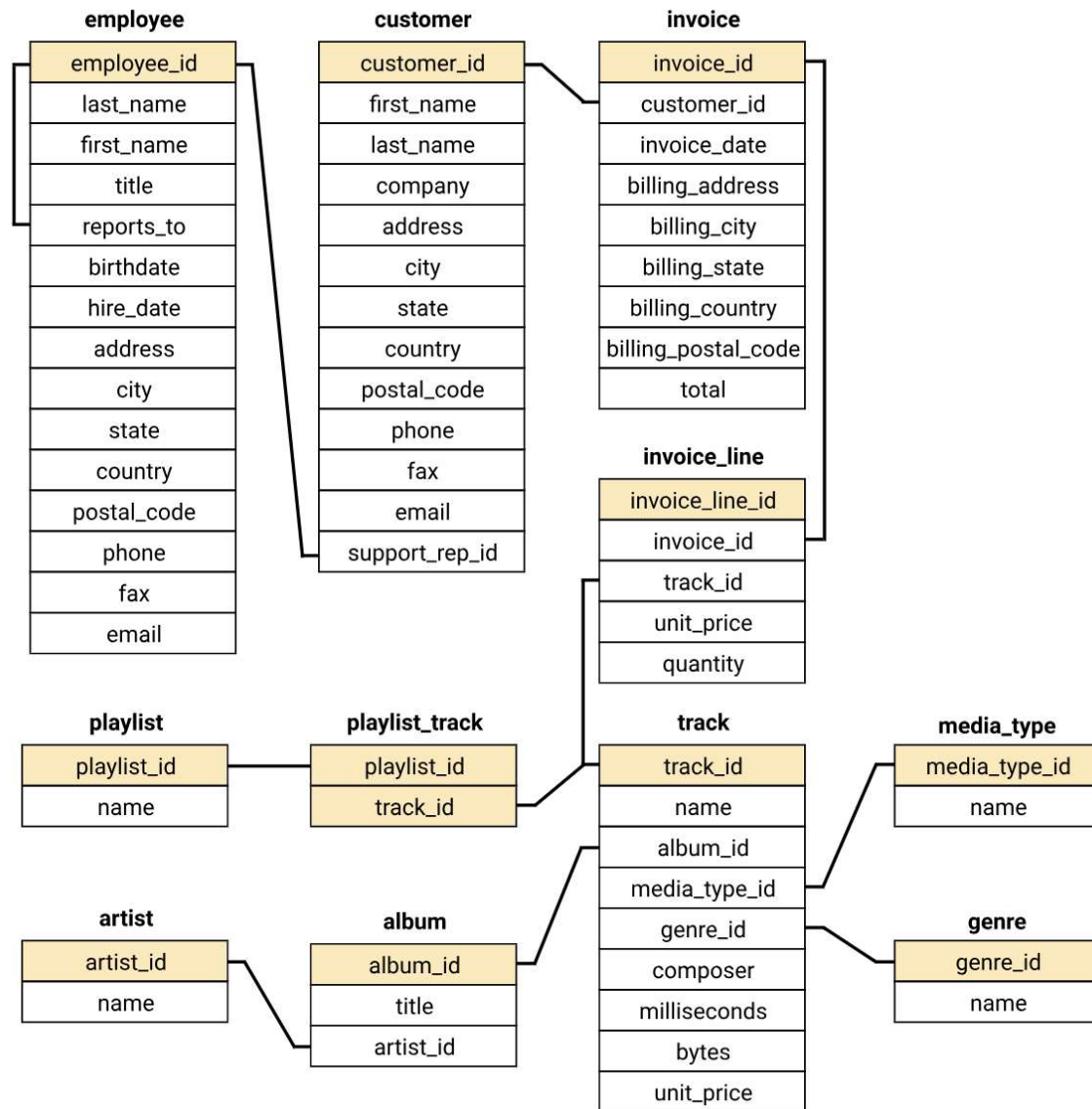
Hira's Music House

2024

MUSIC IS IMPORTANT

Much more than we think







Basic

1) who is the senior-most employee based on job title?

```
• select * from employee  
  Order by levels desc  
  limit 1;
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

	employee_id	last_name	first_name	title	reports_to	levels	birthdate	hire_date	address	city	state	country	postal_code	phone
▶	1	Adams	Andrew	General Manager	9	L6	18-02-1962 00:00	14-08-2016 00:00	11120 Jasper Ave NW	Edmonton	AB	Canada	T5K 2N1	+1 (780) 428-94



Basic

2) which country has the most invoices?

```
2
3 • Select count(*) as c, billing_country
4   from invoice
5   group by billing_country
6   order by c desc
7
```

Result Grid | Filter Rows:

	c	billing_country
▶	131	USA
	76	Canada
	61	Brazil
	50	France
	41	Germany
	30	Czech Republic
	29	Portugal
	28	United States

Result 3 x



Basic

3)what are the top 3 values of total invoices?

```
2  
3 • select total from invoice  
4   order by total desc  
5   limit 3;
```

Result Grid		Filter Rows:
	total	
▶	23.759999999999998	
	19.8	
	19.8	



Basic

4) which city has the best customers? we would like to throw a promotional music festival in the city where 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 and the sum of all invoices total.?

```
4 |  
5 • select sum(total) as invoice_total , billing_city  
6   from invoice  
7   group by billing_city  
8   order by invoice_total desc;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Cont
invoice_total	billing_city			
273.24000000000007	Prague			
169.29	Mountain View			
166.32	London			
158.4	Berlin			
151.47	Paris			
129.69	SÃo Paulo			
114.83999999999997	Dublin			
...	...			

Result 2 x



Basic

5) who is the best customer? The customer who has spent the most money will be declared the best customer. Write the query that returns the person who has spent the most money.

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

Result Grid					Filter Rows:	Export:	Wrap Cell Co
	customer_id	first_name	last_name	total			
▶	5	František	Wichterlovský	144.54000000000002			

Moderate

- 1) write a query to return the email, first name, last name, and Genre of all Rock Music listeners. Return your list ordered alphabetically by email starting with A

```
4 • select distinct email , first_name , last_name
5   from customer
6   join invoice on customer.customer_id =invoice.customer_id
7   join invoice_line on invoice.invoice_id = invoice_line.invoice_id
8   where track_id in (
9     select track_id from track
10    join genre on track.genre_id =genre.genre_id
11    where genre.name like 'Rock'
12  )
13  order by email;
```

email	first_name	last_name
aaronmitchell@yahoo.ca	Aaron	Mitchell
alero@uol.com.br	Alexandre	Rocha
astrid.gruber@apple.at	Astrid	Gruber
bjorn.hansen@yahoo.no	Björn	Hansen
camille.bernard@yahoo.fr	Camille	Bernard

Result 1 ✕

Moderate

- 2) 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 artist.artist_id , artist.name , count(artist.artist_id) as number_of_songs
from track
join album2 on album2.album_id = track.album_id
join artist on artist.artist_id = album2.artist_id
join genre on genre.genre_id = track.genre_id
where genre.name like 'Rock'
group By artist.artist_id , artist.name
order by number_of_songs desc
limit 10 ;
```



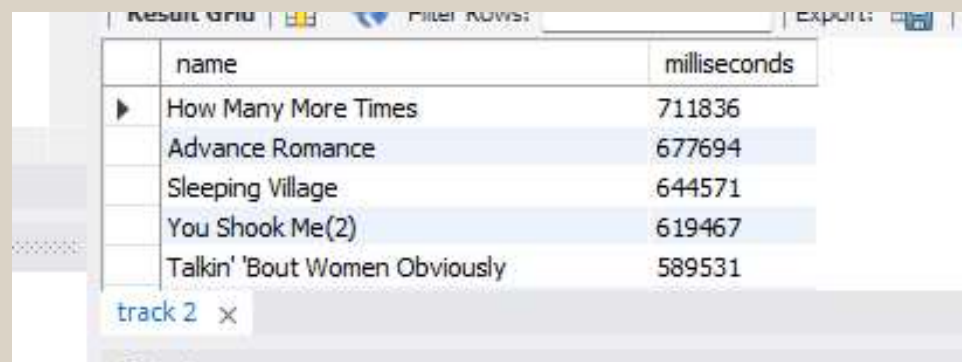
The screenshot shows a database query result window titled 'Result 3'. It displays a table with three columns: 'artist_id', 'name', and 'number_of_songs'. The table contains five rows of data, representing the top 10 rock bands by song count. The first row is AC/DC with 18 songs, followed by Aerosmith with 15 songs, Audioslave with 14 songs, Led Zeppelin with 14 songs, and Alanis Morissette with 13 songs. The window also includes a 'Filter Rows' button and a 'Wrap Cell Contents' checkbox.

artist_id	name	number_of_songs
1	AC/DC	18
3	Aerosmith	15
8	Audioslave	14
22	Led Zeppelin	14
4	Alanis Morissette	13

Moderate

3) Return all the track and Millisecond for each track. Order by the song length with the longest songs listed first.

```
4 • select name,milliseconds
5   from track
6  where milliseconds > (
7     select avg(milliseconds) as avg_track_lentgh
8   from track )
9  order by milliseconds desc;
```



name	milliseconds
How Many More Times	711836
Advance Romance	677694
Sleeping Village	644571
You Shook Me(2)	619467
Talkin' 'Bout Women Obviously	589531