Schema-Design

employee

employee
employee_id
last_name
first_name
title
reports_to
birthdate
hire_date
address
city
state
country
postal_code
phone
fax
email

customer

customer
customer_id
first_name
last_name
company
address
city
state
country
postal_code
phone
fax
email
support_rep_id

invoice

invoice
invoice_id
customer_id
invoice_date
billing_address
billing_city
billing_state
billing_country
billing_postal_code
total

invoice_line

invoice_line
invoice_line_id
invoice_id
track_id
unit_price
quantity

playlist

playlist
playlist_id
name

playlist_track

playlist_track
playlist_id
track_id

track

track
track_id
name
album_id
media_type_id
genre_id
composer
milliseconds
bytes
unit_price

media_type

media_type
media_type_id
name

artist

artist
artist_id
name

album

album
album_id
title
artist_id

genre

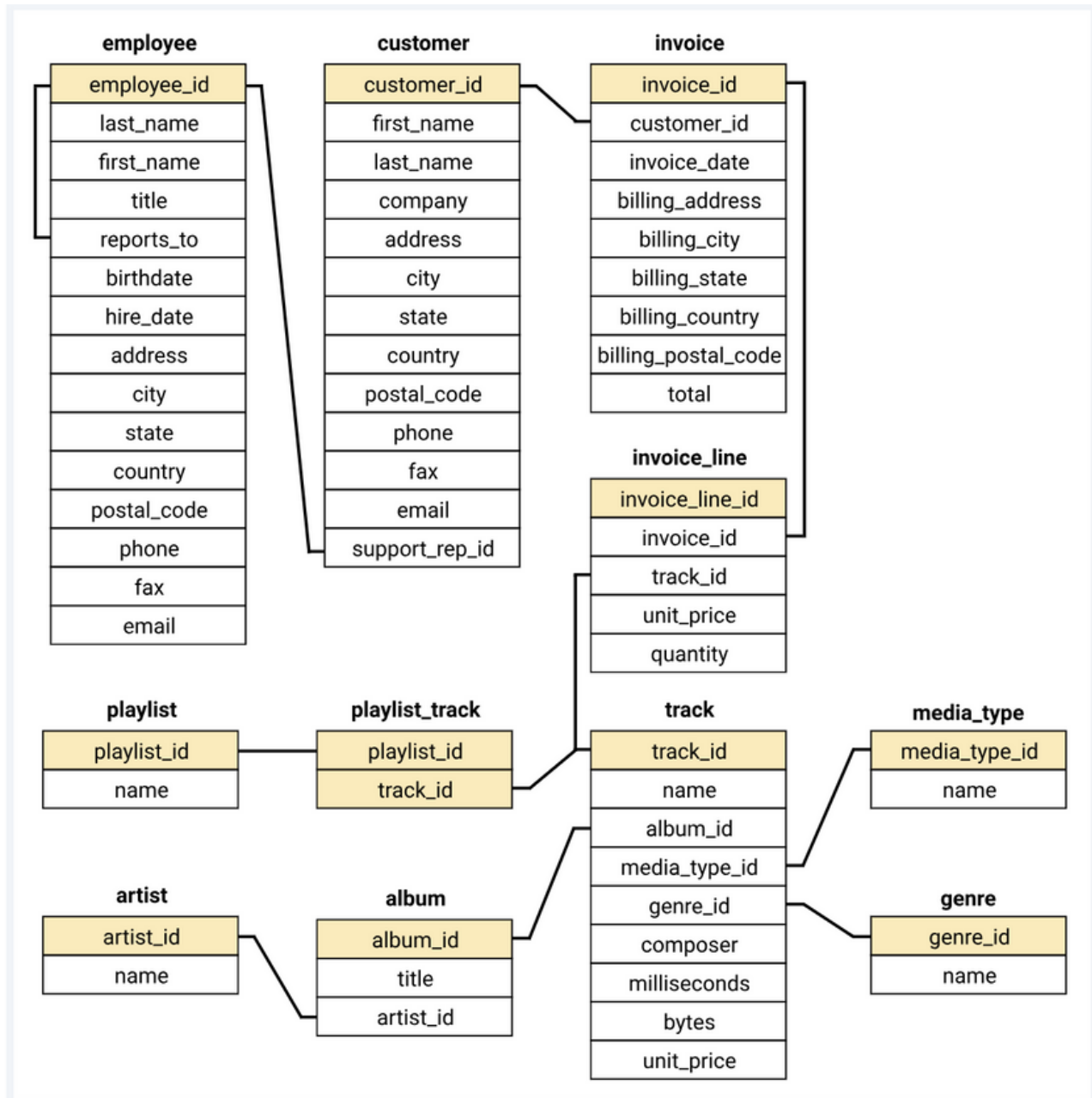| genre |
| --- |
| genre_id |
| name |

Solution Set 1 - Easy

1. Who is the senior most employee based on job title?

2. Which countries have the most Invoices?

3. What are the top 3 values of the total invoice?

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 & sum of all invoice totals

5. 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 Set 1 - Easy

--1. Who is the senior most employee based on job title?

select employee_id,first_name,last_name,title,hire_date from employee
group by employee_id order by hire_date asc limit 1;
--OR
select * from employee order by levels desc limit 1

--2. Which countries have the most Invoices?

Select count(*)as c,billing_country from invoice group by billing_country
order by c desc

--3. What are the top 3 values of the total invoice?

select total from invoice order by total desc limit 3

/*4. 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. */

select billing_city,sum(total) as sum from invoice group by billing_city order by sum desc limit 1

/* 5. 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.*/

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