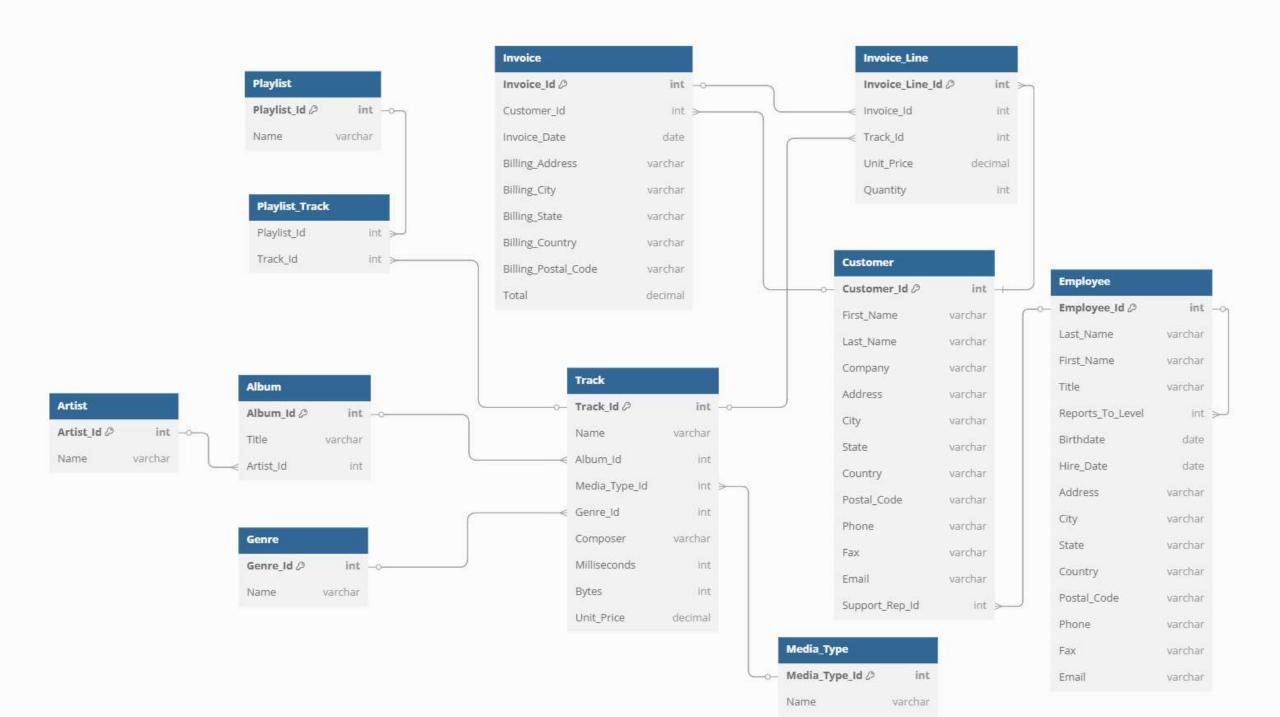
MUSIC STORE

SQL Database





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

- Select * From Employee
- Order By Level Desc
- Limit 1;

2. WHICH COUNTRIES HAVE THE MOST INVOICES?

- Select Billing_Country,
- Count(*) as Total_Invoices
- From Invoice
- Group By Billing_Country
- Order By Total_Invoices Desc;

3. WHAT ARE TOP 3 VALUES OF 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 Invoice_Total
- · From Invoice
- Group By Billing_City
- Order By Invoice_Total Desc;

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.Full_Name,
- Sum(Invoice.Total) as Invoice_Total
- From Customer
- Join Invoice
- On Customer_Id = Invoice.Customer_Id
- Group By Customer_Id,
- Customer.Full_Name
- Order By Invoice_Total Desc
- Limit 1;

1. 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 Distinct
- · Customer.Email,
- Customer.First_Name,
- Customer.Last_Name,
- Genre.Name As Genre
- From Customer
- Join Invoice on Customer.Customer_Id = Invoice.Customer_Id
- Join Invoice_Line on Invoice_Id = Invoice_Line.Invoice_Id
- Join Track on Invoice_Line.Track_Id = Track.Track_Id
- Join Genre on Track.Genre_Id = Genre.Genre_Id
- Where Genre.Name = 'Rock'
- Order By Customer.Email Asc;

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.Name as Artist_Name,
- Count(Track.Track_Id) as Total_Rock_Tracks
- From Artist
- Join Album on Artist.Artist_Id = Album.Artist_Id
- Join Track on Album. ALbum_Id = Track.Album_Id
- Join Genre on Track.Genre_Id = Genre.Genre_Id
- Where Genre.Name = 'Rock'
- Group By Artist.Name
- Order By Total_Rock_Tracks Desc
- Limit 10;

3. 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

- Select
- · Name as Track_Name,
- Milliseconds
- From Track
- Where Milliseconds >(
- Select Avg(Milliseconds) From Track
-)
- Order By Milliseconds Desc;

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

- Select
- · Customer.Full_Name,
- Artist.Name as Artist_Name,
- Round(Sum(Invoice_Line.Unit_Price * Invoice_Line.Quantity),2) as
 Total_Spent
- From Customer
- Join Invoice on Customer_Id = Invoice.Customer_Id
- Join Invoice_Line on Invoice_Id = Invoice_Line.Invoice_Id
- Join Track on Invoice_Line.Track_Id = Track.Track_Id
- Join Album on Track.Album_Id = Album.Album_Id
- Join Artist on Album.Artist_Id = Artist.Artist_Id
- Group By Customer.Full_Name, Artist_Name
- Order By Total_Spent Desc;

2. 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

```
With Genre_Purchase_Count As (
  Select
    Customer.Country,
    Genre. Name As Genre,
    Count(*) As Total_Purchases
  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 Track.Genre Id =
Genre.Genre Id
  Group By Customer. Country,
Genre.Name
```

```
Max Purchases Per Country As (
  Select
    Country,
    Max(Total Purchases) As Max Purchases
  From Genre Purchase Count
  Group By Country
Select
  gpc.country,
  gpc.genre,
  qpc.total purchases
From Genre_Purchase_Count gpc
Join Max_Purchases_Per_Country mpc
 On gpc.country = mpc.country And
gpc.total_purchases = mpc.max_purchases
Order By qpc.country Asc, qpc.genre Asc;
```

3. WRITE A QUERY THAT DETERMINES THE CUSTOMER THAT HAS SPENT THE MOST ON MUSIC FOR EACH COUNTRY. WRITE A QUERY THAT RETURNS THE COUNTRY ALONG WITH THE TOP CUSTOMER AND HOW MUCH THEY SPENT. FOR COUNTRIES WHERE THE TOP AMOUNT SPENT IS SHARED, PROVIDE ALL CUSTOMERS WHO SPENT THIS AMOUNT

```
With Customer_Total_Spent As (
                                                   Select
  Select
                                                       Country,
    Customer.Country,
                                                       Max(Total_Spent) As Max_Spent
                                                     From Customer_Total_Spent
    Customer.Customer Id,
    Customer.Full Name,
                                                     Group By Country
    Round(Sum(Invoice.Total), 2) As
                                                   Select
Total Spent
  From Customer
                                                     cts.country,
  Join Invoice On Customer.Customer Id =
                                                     cts.full name,
Invoice.Customer Id
                                                     cts.total spent
  Group By Customer. Country,
                                                   From Customer_Total_Spent cts
Customer.Customer Id,
                                                   Join Max_Spent_Per_Country mspc
Customer.Full Name
                                                    On cts.country = mspc.country And
                                                   cts.total spent = mspc.max spent
Max_Spent_Per_Country As (
                                                   Order By cts.country Asc, cts.full name
                                                   Asc:
```