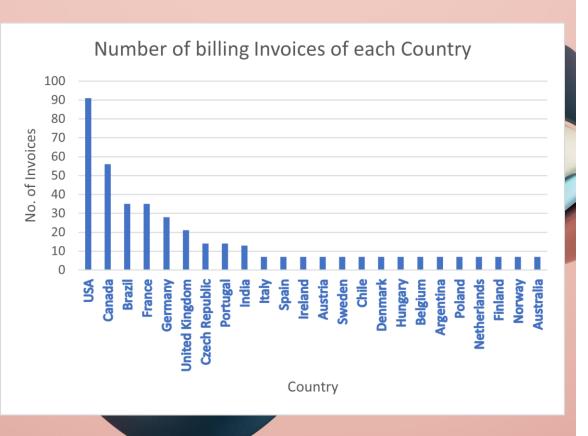


Finding Presentation

By: Amr Elbana



Question 1: Which countries have the most Invoices?

Query 1:

"Select BillingCountry, count(invoiceid)
from invoice
group by BillingCountry
order by 2 Desc"

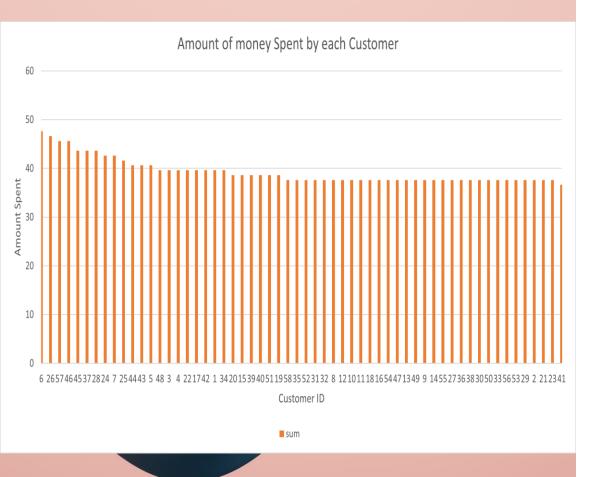
This chart describes the number of purchases done by customers in each Country.



Question 2: Which city has the best customers?

Query 2:
"Select BillingCity, sum(total)
from invoice
group by BillingCity
order by 2 Desc"

This chart describes the amount earned from each city and it could be used for marketing purposes to determine the best city to host a festival.

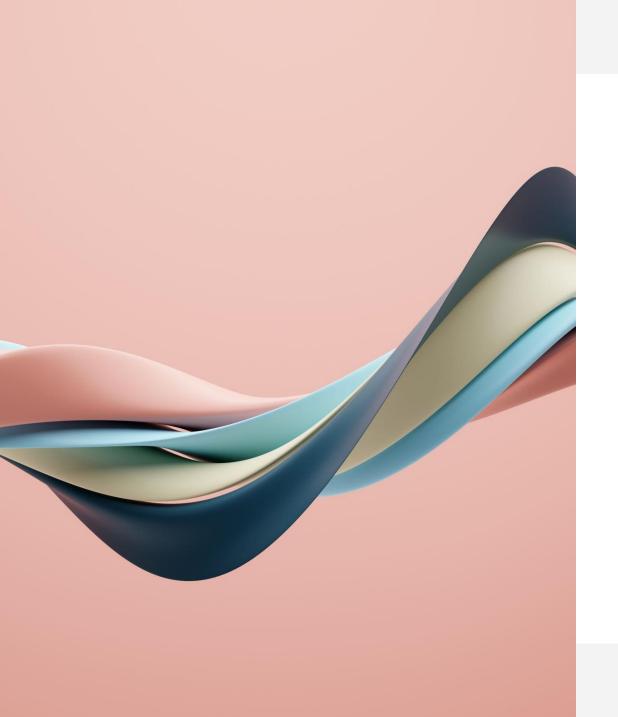


Question 3: Who is the best customer?

Query 3:

"Select ie.customerid, sum(unitprice) from invoice as ie join InvoiceLine as il on ie.invoiceid = il.invoiceid join Customer as cr on ie.customerid = cr.customerid group by 1 order by 2 desc limit 1"

This chart describes the amount spent by each Customer by their numeric ID.
This may be used for marketing purposes by giving a gift to the best customers.

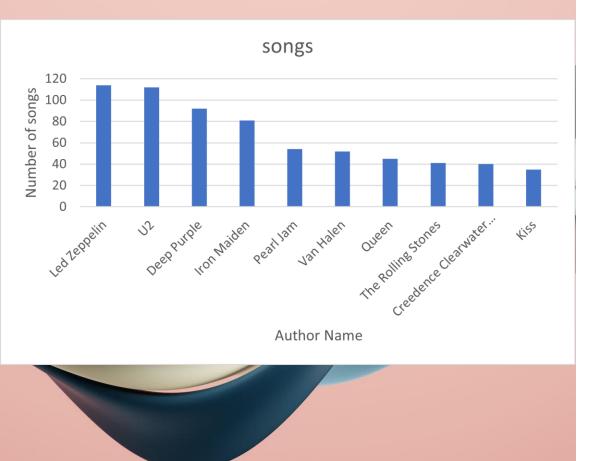


Question 4:

What is the email, first name, last name, and Genre of all **Rock** Music listeners

Query 4:

"Select distinct(cr.email), cr.firstname, cr.lastname, g.name from invoice as ie join InvoiceLine as il on ie.invoiceid = il.invoiceid join Customer as cr on ie.customerid = cr.customerid join track as t on t.trackid = il.trackid join genre as g on g.genreid = t.genreid where g.name = 'Rock' order by 2"



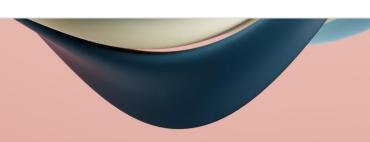
Question 5: Who is writing the rock music?

Query 5:

"select ROW_NUMBER() OVER (order by count(g.name) desc) as " ", a.artistid, at.name, count(g.name) as Songs from Genre as g join track as t on g.genreid = t.genreid join album as a on t.albumid = a.albumid join artist as at on a.artistid = at.artistid where g.name = 'Rock' group by at.name, a.artistid order by count(g.name) desc limit 10"

This chart shows the number of songs produced by each author by which it could be used for marketing purposes.

Amount Earned by each artist 160 140 120 **Amount Earned** 100 80 60 40 20 0 Iron Maiden Metallica Led Zeppelin U2 Lost Artist(Band)



This chart describes the amount earned by each artist in their concerts which maybe used to determine which artist has the most fans.

Question 6: Which artist has earned the most?

Query 6:

"select ROW_NUMBER() OVER (order by sum(il.unitprice) desc) as " ", at.name, sum(il.unitprice) as "amount spent" from customer as cr join invoice as iv on cr.customerid = iv.customerid join invoiceline as il on iv.invoiceid = il.invoiceid join track as tr on il.trackid = tr.trackid join album as a on tr.albumid = a.albumid join artist as at on a.artistid = at.artistid group by at.name order by 3 desc limit 5"



This chart describes the top fans for Iron Maiden, and it could be used for marketing purposes by giving them a discount to encourage other fans to attend more concerts.

Question 7: Who are the top purchasers of Iron Maiden concert tickets?

Query 7: "select sub.* From (select at.name, sum(il.unitprice), iv.customerid, cr.firstname, cr.lastname from customer as cr join invoice as iv on cr.customerid = iv.customerid join invoiceline as il on iv.invoiceid = il.invoiceid join track as tr on il.trackid = tr.trackid join album as a on tr.albumid = a.albumid join artist as at on a.artistid = at.artistid group by at.name, iv.customerid, cr.firstname, cr.lastname order by sum(il.unitprice) desc, at.name limit 20) sub where name = 'Iron Maiden' "