## Query Digital Music Store DB

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# In this presentation, the following questions will be answered by querying an SQL database

 How many artists belong to each genre? Which genres have the most artists?

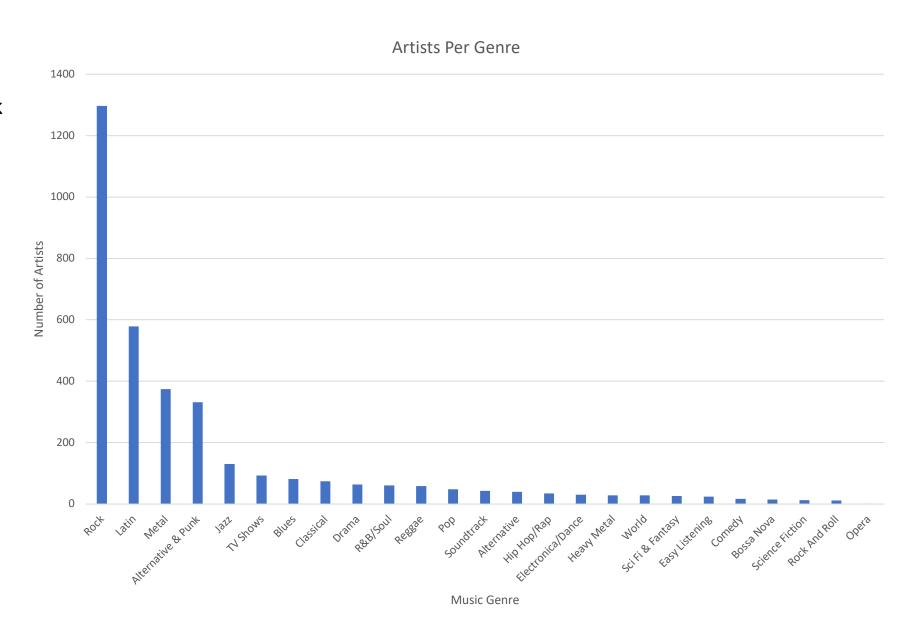
What was the most bought Media type?

Which employee brought in the most profit?

Which genre of music di customers buy the most of?

## How many artists belong to each genre? Which genres have the most artists?

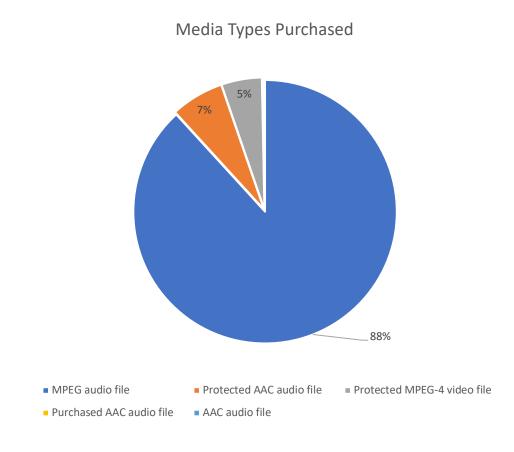
We can see from the graph a large majority of artist belong to the rock genre, with Latin coming in at a distant second. It should be kept in mind that artist may have been assigned to multiple genres



SELECT g.Name Genre, COUNT(\*) FROM Artist ar JOIN Album al ON ar.ArtistId = al.ArtistId JOIN Track t ON t.AlbumId = al.AlbumId JOIN Genre g ON t.Genreld = g.Genreld **GROUP BY 1** ORDER BY 2 DESC;

#### What was the most bought Media type?

The pie chart shows that by far, the most purchased media format was overwhelmingly MPEG audio. It should be noted that this table differentiates between Protected AAC, Purchased AAC, and AAC audio

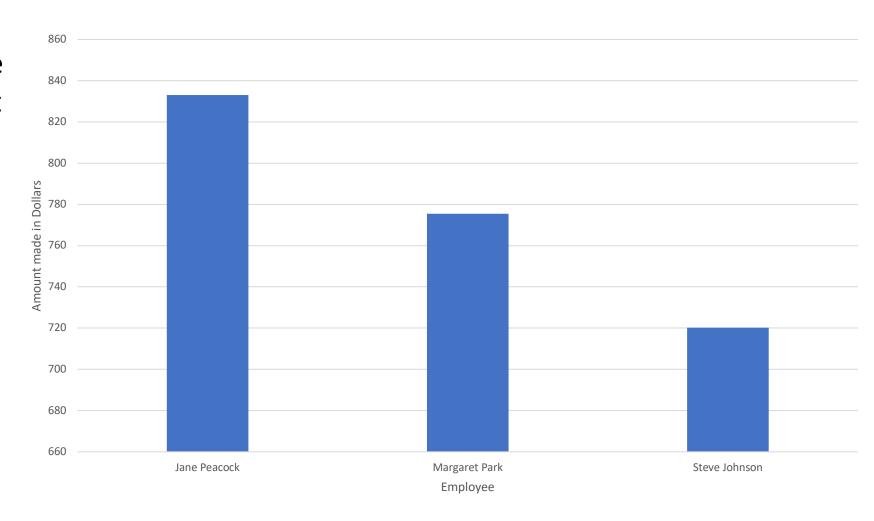


SELECT m.Name, COUNT(i.InvoiceId) invoice\_count FROM MediaType m JOIN Track t ON m.MediaTypeId = t.MediaTypeId JOIN InvoiceLine il ON t.TrackId = il.TrackId JOIN Invoice I ON il. Invoiceld = i. Invoiceld **GROUP BY 1** ORDER BY 2 DESC;

#### Which employee brought in the most profit?

According to this graph, Jane peacock brought in the most sales, followed closely by Margaret, then Steve





SELECT e.EmployeeId, e.FirstName||''||e.LastName EmployeeFullName,

SUM(i.Total) total\_sales

FROM Employee e

**JOIN Customer** 

ON e.Employeeld = c.SupportRepId

JOIN Invoice I

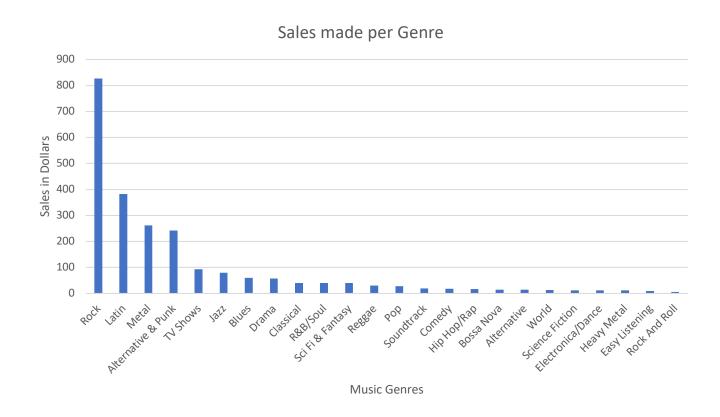
ON c.CustomerId = i.CustomerId

GROUP BY 1, 2

ORDER BY 3 DESC;

#### Which genre of music did customers buy the most of?

From the corresponding graph we can see the Rock genre had the most purchases which is consistent with the analysis that most artists were listed as being part of the Rock genre.



SELECT g.name, SUM(il.unitprice \* il.quantity) AS total

FROM Genre g

JOIN Track t

ON g.Genreld = t.Genreld

JOIN InvoiceLine il

ON t.TrackId = il.TrackId

**GROUP BY 1** 

ORDER BY 2 DESC;