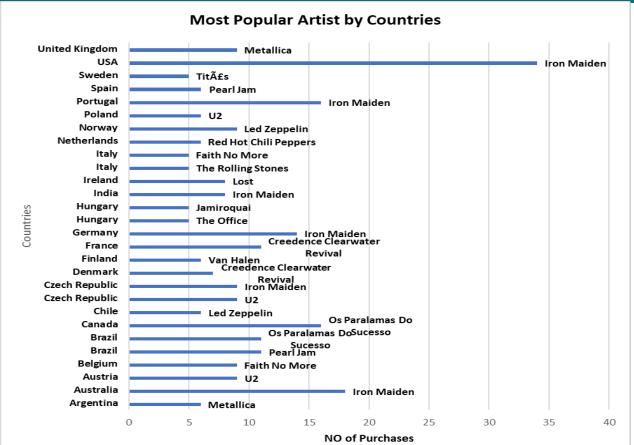
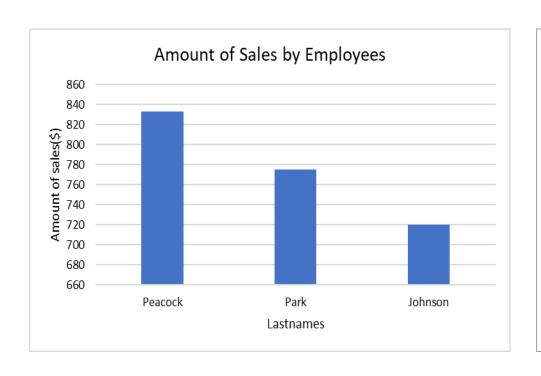
Most Popular Artist Across Countries



- This graph shows the artist with the highest number of purchases across countries.
- From the graph we can see that the artist with the highest purchase is Iron Madien in USA.
- While iron maiden is popular in Australia, Czech Republic, Germany and Portugal. It is a much bigger artist in the USA and a higher level of success compared to other countries.

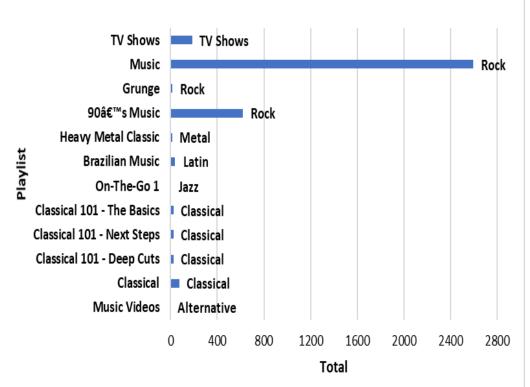
Amount of sales by employees



- This shows the amount of sales each employee made.
- Peacock has the highest amount of sales with \$833.04 and park having \$755.4 and Johnson \$720.16

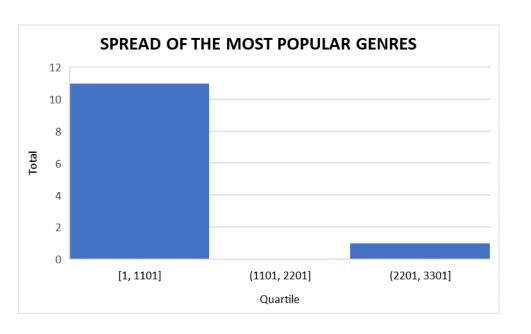
Most Popular Genre In Each Playlist





- This graph shows the most popular genre in each playlist.
- The Music playlist has the highest count of Rock genre and also the largest count. While the Grunge and 90's music also have a high count of the rock in their respective playlist it is comparatively less than the music genre

Spread Of The Most Popular Artist In Each Genre



- This histogram show the spread of data across the most popular genres in the playlist.
- From the graph we can see that it is right skewed or positively skewed.

SQL code for popular artist across countries

```
WITH popular Artist AS (
SELECT c.Country as countries, COUNT(ar.name) no_of_purchase,ar.Name as artists,
                  RANK() OVER(PARTITION BY c.Country ORDER BY COUNT(ar.Name) DESC) AS rank
FROM Genre as q
JOIN Track as t
ON a.Genreld = t.Genreld
JOIN InvoiceLine as il
ON t.TrackId = il.TrackId
JOIN Invoice as i
ON i.InvoiceId = il.InvoiceId
JOIN Customer as c
ON c.Customerld = i.Customerld
JOIN Album as a
ON a.AlbumId = t.AlbumId
JOIN Artist as ar
ON ar.ArtistId = a.ArtistId
GROUP BY c.Country, ar. Name
ORDER BY c.Country, no_of_purchase DESC)
SELECT Countries, no of purchase, artists.
CASE WHEN no of purchase >=30 THEN 'Big artist'
WHEN no of purchase <30 AND no of purchase >=10 THEN 'Popular'
ELSE 'Fairly popular'
END AS level
FROM popular Artist
WHERE rank=1
```

SQL code for sales by employees

SELECT Employeeld, e. LastName, sum(total) as totals

FROM Employee as e

JOIN Customer as c

ON e.Employeeld = c.SupportRepId

JOIN Invoice as i

ON c.CustomerId = i.CustomerId

GROUP BY 1

SQL Code For Popular Genres In Each Playlist

```
WITH genre_playlist as (
```

SELECT p.Name as playlist_name,g.Name as genres,count(p.Name) as totals, rank() OVER(PARTITION BY p.Name ORDER BY count(p.Name) DESC) as ranks FROM Playlist AS p JOIN PlaylistTrack as pt ON p.PlaylistId = pt.PlaylistId JOIN Track as t ON pt.TrackId = t.TrackId JOIN Genre as g ON g.GenreId = t.GenreId GROUP BY 1,2)

SELECT playlist_name,genres,totals, ntile(4) OVER(PARTITION BY genres) as quartiles FROM genre_playlist WHERE ranks = 1

SQL code about the spread of popular artist in each genre

```
WITH genre_playlist as (
SELECT p.Name as playlist_name,g.Name as genres,count(p.Name) as totals,
rank() OVER(PARTITION BY p.Name ORDER BY count(p.Name) DESC) as ranks
FROM Playlist AS p
JOIN PlaylistTrack as pt
ON p.PlaylistId = pt.PlaylistId
JOIN Track as t
ON pt.TrackId = t.TrackId
JOIN Genre as q
ON g.Genreld = t.Genreld
GROUP BY 1,2)
SELECT playlist_name,genres,totals
```

FROM genre_playlist WHERE ranks = 1