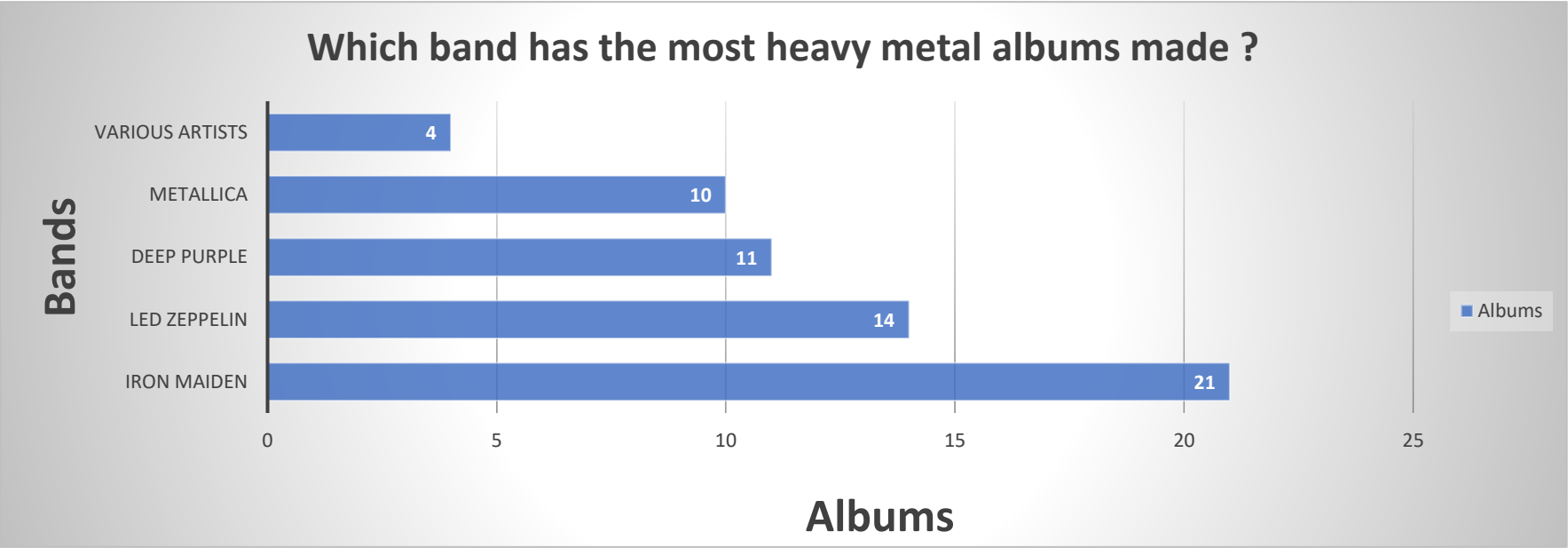


Q: /\*Query 1 - Which band has the most heavy metal albums made ?  
\*/

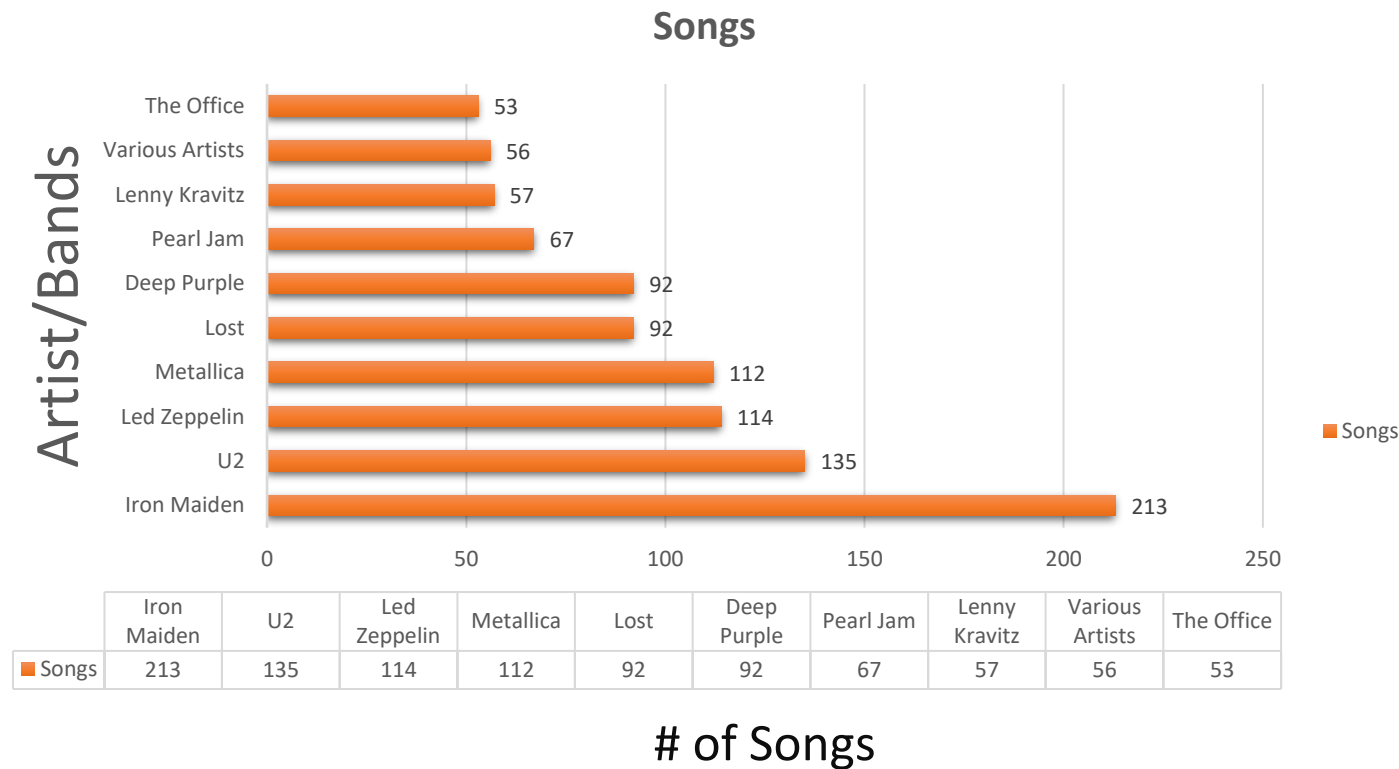
```
SELECT Art.Name ,  
count(Alb.AlbumId) AS Albums  
FROM Artist Art  
JOIN Album Alb  
ON Art.ArtistId = Alb.ArtistId  
JOIN Track t  
ON Alb.ArtistId= t.TrackId  
JOIN Genre g  
ON t.GenreId = g.GenreId  
WHERE t.GenreId = 1  
GROUP BY Art.Name  
ORDER BY Albums DESC  
LIMIT 5
```



This bar chart show the which heavy metal band had the most albums in the database.  
As you can see Iron Maiden was at the top with 21 albums.

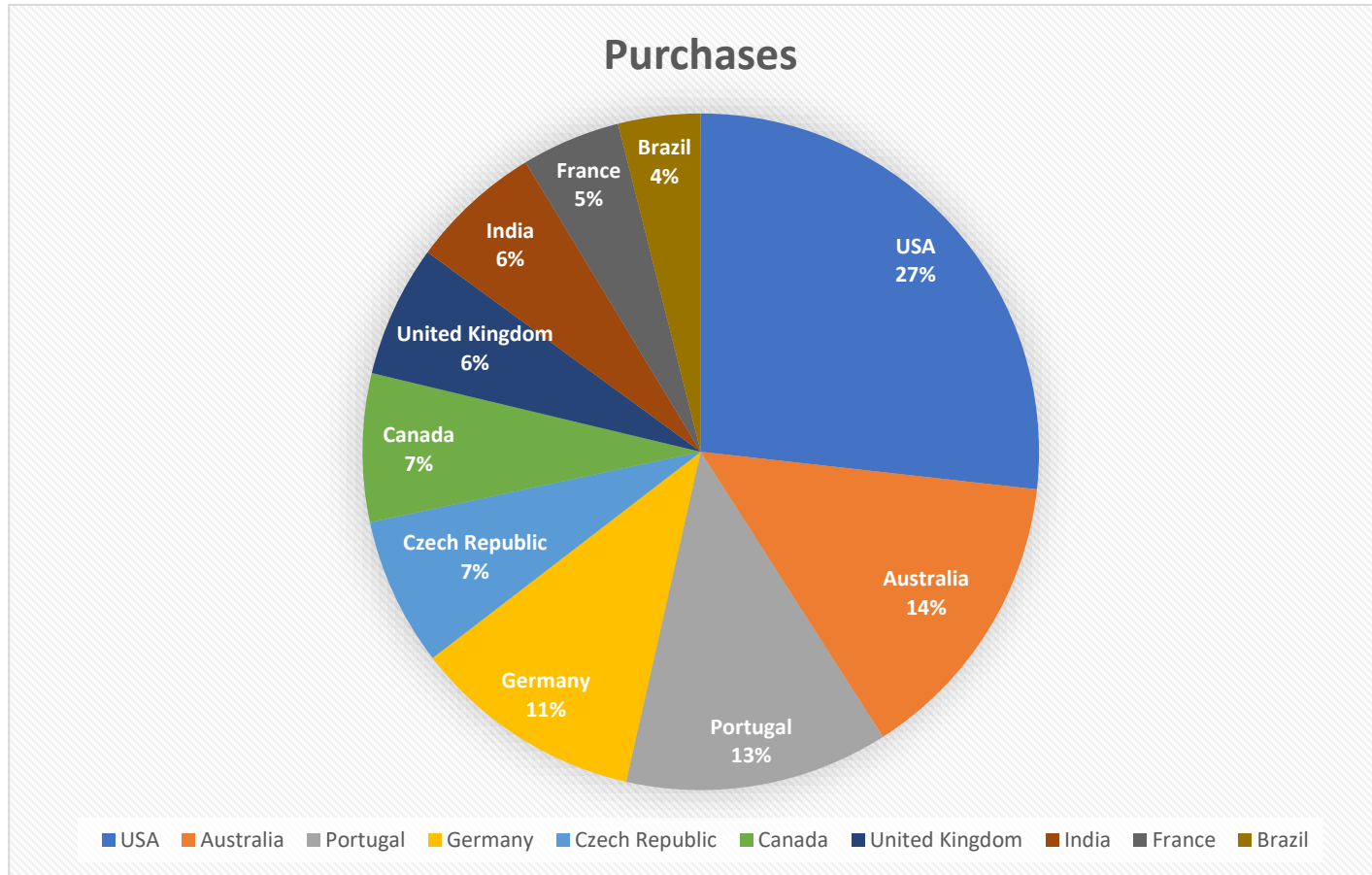
`/* Query 2 - How many song do each artist have? */`

```
SELECT art.ArtistId, art.Name,
COUNT(t.TrackId) AS songs
FROM Artist art
JOIN Album alb
ON art.ArtistId = alb.ArtistId
JOIN Track t
ON alb.AlbumId = t.AlbumId
GROUP BY art.ArtistId
ORDER BY songs desc
LIMIT 10;
```



I wanted to see which artist or band had the most song in the database. Iron Maiden had the most, at the top with a considerable 213 songs.

Q:/\*Query 3 - How many customers purchased Iron Maiden in each country. \*/



This pie chart show the percentage of which countries made a purchase towards Iron Maiden.

USA was at the top with 27% of the purchases made towards Iron Maiden.

```
SELECT c.Country,
COUNT(c.Country) AS Purchases
FROM Customer c
JOIN Invoice i
ON c.CustomerId = i.CustomerId
JOIN InvoiceLine il
ON i.InvoiceId = il.InvoiceId
JOIN Track t
ON il.TrackId = t.TrackId
JOIN Album alb
ON t.AlbumId = alb.AlbumId
JOIN Artist art
ON alb.ArtistId = art.ArtistId
WHERE art.Name = 'Iron Maiden'
GROUP BY c.Country
ORDER BY Purchases DESC
LIMIT 10;
```

Q: /\* Query 4 - Which genre has the highest grossing? .\*/

```
SELECT g.Name, SUM(Invl.UnitPrice  
* Invl.Quantity) as GenreGross
```

```
FROM Genre g
```

```
JOIN Track t
```

```
ON T.GenreId = G.GenreId
```

```
JOIN InvoiceLine invl
```

```
ON T.TrackId = Invl.TrackId
```

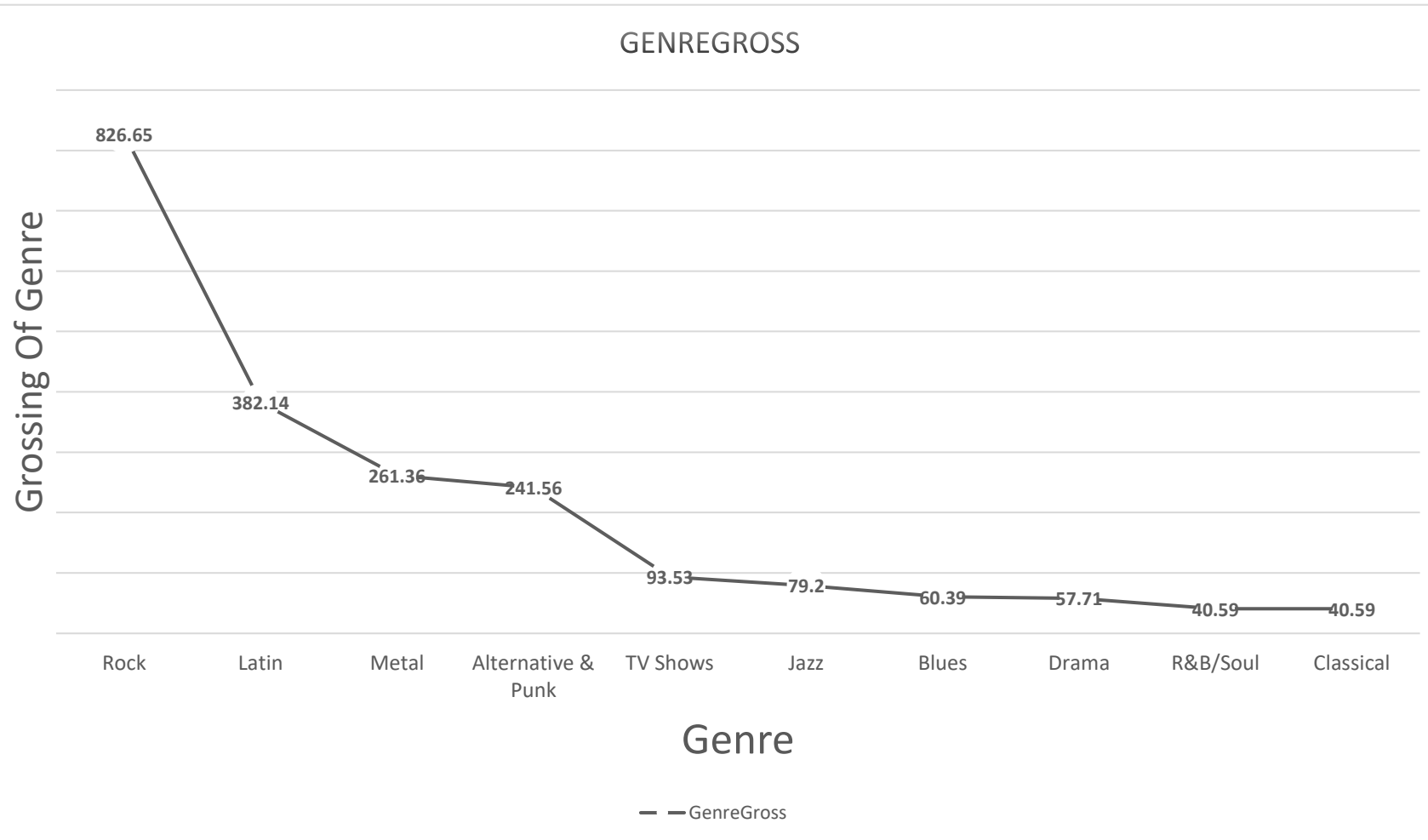
```
JOIN Invoice inv
```

```
ON Inv.InvoiceId=Invl.InvoiceId
```

```
GROUP BY g.Name
```

```
ORDER BY GenreGross DESC
```

```
LIMIT 10;
```



This line chart show the which genre has the largest amount of grossing. We can see rock is at the top, followed by Latin, and Metal consecutively.