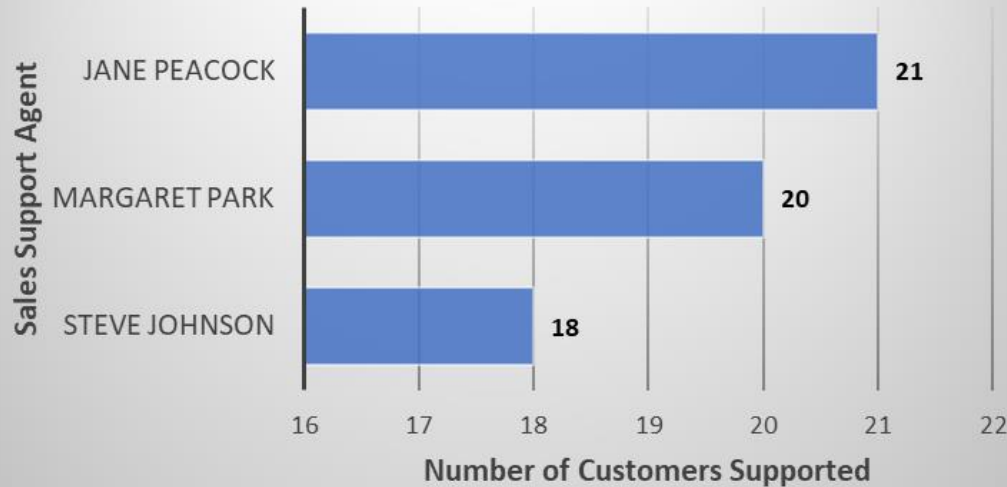# Insight 1 – Which employee has supported/is supporting the most customers?
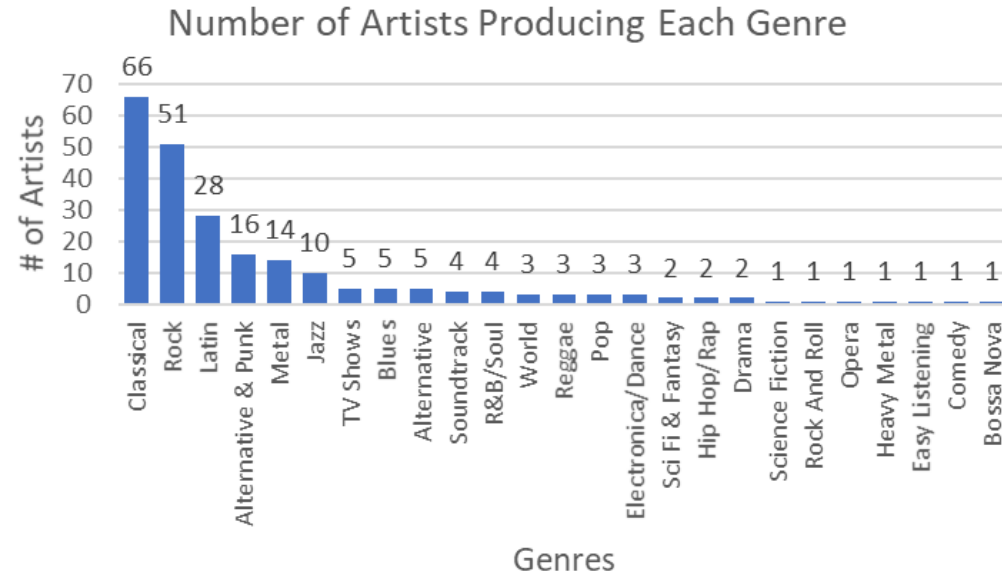
Customers_Supported

A critical finding was that there are multiple types of employees and only "Sales Support Agents" are assigned to customers in the "SalesRepId" column. Of the 8 total employees, only three are Sales Support Agents and of them, Jane Peacock supports the most customers (21). Margaret and Steve are assigned to 20 and 18 customers, respectively.

```
SELECT
e.EmployeeId,
e.FirstName || ' ' || e.LastName Sales_Support_Agent,
COUNT(c.SupportRepId) AS Customers_Supported
FROM Employee e
```

```
JOIN Customer c
  ON e.EmployeeId = c.SupportRepId
GROUP BY 2
ORDER BY 3 DESC;
```

Insight 2 – Which Genre has the most artists producing this type of music?

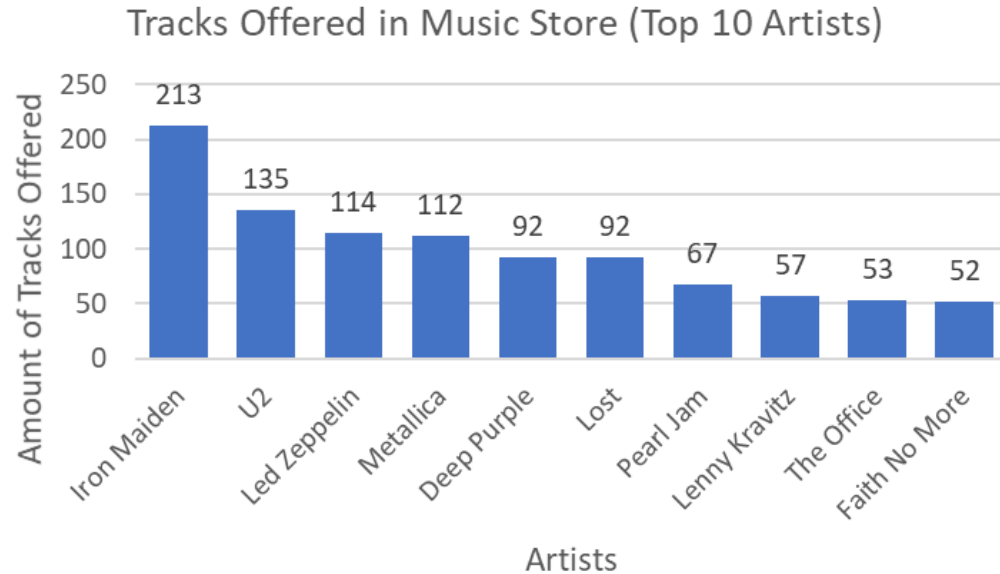Number of Artists Producing Each Genre

We can see the Genre with the most artists producing that type of music is Classical. The next largest Genre (by the number of artists producing) is Rock music with 51 Artists producing (have produced this Genre of Music).

```
SELECT
  g.Name,
  COUNT(DISTINCT ar.Name) AS
Amt_of_Artists
FROM Artist ar
JOIN Album al
  ON ar.ArtistId = al.ArtistId

JOIN Track t
  ON al.AlbumId = t.AlbumId
JOIN Genre g
  ON t.GenreId = g.GenreId
GROUP BY g.Name
ORDER BY 2 DESC;
```

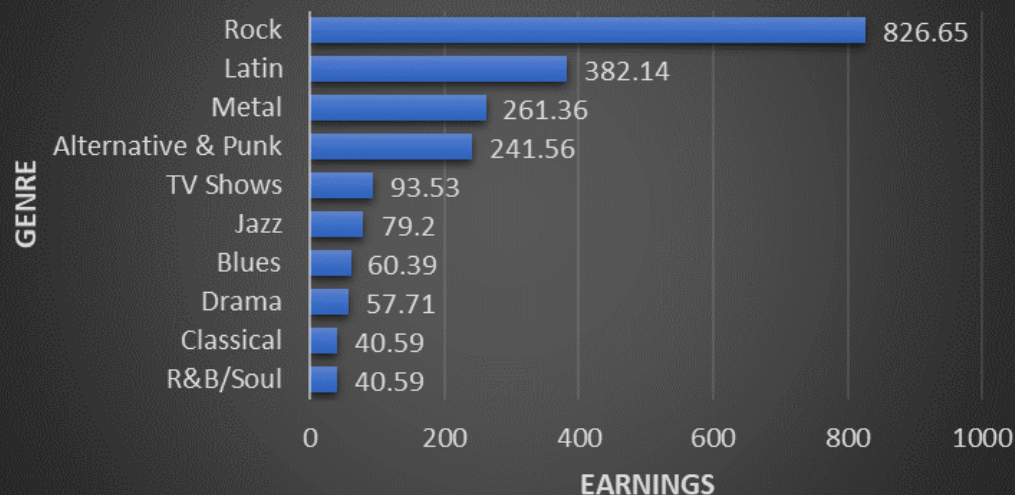# Insight 3 – Which artists have the most tracks offered in the store (top 10)?

Tracks Offered in Music Store (Top 10 Artists)

We can see Iron Maiden has the largest amount of tracks offered in the music store. "Various Artists" held the #9 spot with 56 tracks. "WHERE ar.Name <> 'Various Artists" was used to exclude 'Various Artists', as finding individual artists with the most tracks offered was the objective of the insight.

```
SELECT
  ar.ArtistId,
  ar.Name,
  COUNT(*) Tracks_Offered
FROM Artist ar
JOIN Album al
  ON ar.ArtistId = al.ArtistId
```

```
JOIN Track t
  ON al.AlbumId = t.AlbumId
WHERE ar.Name <> 'Various Artists'
GROUP BY 1,
    2
ORDER BY 3 DESC;
LIMIT 10;
```

Insight 4 – Which genres have earned the most (top 10)?

Genre Earning (Top 10)

We can see the Rock genre has earned the most within the dataset. The Latin genre comes in second with less than half the amount (382.14) of the Rock genre (826.65).

```
SELECT                               JOIN InvoiceLine il
  g.Name Genre,                        ON t.TrackId = il.TrackId
  SUM(il.UnitPrice * il.Quantity) Earnings   JOIN Invoice i
FROM Genre g                           ON il.InvoiceId = i.InvoiceId
JOIN Track t                         GROUP BY 1
  ON g.GenreId = t.GenreId           ORDER BY 2 DESC
                                     LIMIT 10;
```