

1. Select all columns from the Artist table.

QUERY: SELECT * FROM Artist;

2. Select the Name column from the Genre table.

QUERY: SELECT Name FROM Genre;

3. Select the Title and ArtistId from the Album table.

QUERY: SELECT Title, ArtistId FROM Album;

4. Get all tracks with a UnitPrice greater than 0.99.

QUERY: SELECT * FROM Tracks WHERE UnitPrice > 0.99

5. Find all customers from the USA from the customer.

QUERY: SELECT * FROM customer WHERE country = "USA";

6. List all employees with the title 'Sales Support Agent' from employee

QUERY: SELECT * FROM employee WHERE title = 'Sales Support Agent';

7. Get the InvoiceId, CustomerId, and Total for all invoices where the total is between 10 and 20 from the invoice table

QUERY: SELECT InvoiceId, CustomerId, Total FROM Invoice WHERE Total BETWEEN 10 AND 20;

8. Find all tracks with GenreId 1 or 2.

QUERY: SELECT * FROM Track WHERE GenreId IN (1, 2);

9. List all artists whose names start with 'A'.

QUERY: SELECT * FROM Artist WHERE Name LIKE 'A%';

10. Get all albums ordered alphabetically by Title.

QUERY: SELECT * FROM Album ORDER BY Title ASC;

11. Select TrackId, Name, and Milliseconds from Track, ordered by Milliseconds in descending order.

QUERY: SELECT TrackId, Name, Milliseconds FROM Tracks ORDER BY Milliseconds ASC;

12. Find the top 10 most expensive tracks.

QUERY: SELECT TOP 10 * FROM Track ORDER BY UnitPrice DESC;

13. Get all invoices from the year 2009.

QUERY: SELECT * FROM Invoice WHERE YEAR(InvoiceDate) = 2009;

14. List all employees who were hired after '2003-01-01'

QUERY: SELECT * FROM Employee WHERE HireDate > '2003-01-01';

15. Find customers whose FirstName is 'Robert' or LastName is 'King'.

QUERY: SELECT * FROM Customer WHERE FirstName = 'Robert' AND LastName = 'King';

16. select TrackId and Name from Track where the Composer is 'AC/DC'

QUERY: SELECT TrackId, Name FROM Track WHERE Composer LIKE '%AC/DC%';

17. Get all tracks that are longer than 5 minutes

QUERY: SELECT * FROM Track WHERE Milliseconds > 300000;

18. Find all MediaType names.

QUERY: SELECT Name FROM MediaType;

19. Get the distinct BillingCountry from the Invoice table.

QUERY: SELECT DISTINCT BillingCountry FROM Invoice;

20. List the Title of all albums and the Name of their respective artists.

QUERY: SELECT Album.Title, Artist.Name FROM Album JOIN Artist ON Album.ArtistId = Artist.ArtistId;

21. Get the Name of each track and the Title of its album.

QUERY: SELECT Track.Name AS TrackName, Album.Title AS AlbumTitle FROM Track JOIN Album ON Track.AlbumId = Album.AlbumId;

22. Find the Name of each track and its Genre name.

QUERY: SELECT Track.Name AS TrackName, Genre.Name AS GenreName FROM Track JOIN Genre ON Track.GenreId = Genre.GenreId;

23. Get the Name of tracks and the Name of their MediaType

QUERY: SELECT Track.Name AS TrackName, MediaType.Name, FROM Track, JOIN MediaType ON Track.MediaTypeId = MediaType.MediaTypeId;

24. For each invoice, show the InvoiceId, InvoiceDate, BillingCountry, and the FirstName and LastName of the customer who made the purchase.

```
SELECT Invoice.InvoiceId, Invoice.InvoiceDate, Invoice.BillingCountry,  
Customer.FirstName, Customer.LastName FROM Invoice JOIN Customer ON  
Invoice.CustomerId = Customer.CustomerId;
```

25. Count the total number of tracks.

```
QUERY: SELECT COUNT(*) FROM Tracks;
```

26. Calculate the total sales (sum of Total from Invoice.

```
QUERY: SELECT SUM(Total) FROM Invoice;
```

27. How many customers are there in each Country?

```
SELECT Country, COUNT(*) AS NumberOfCustomers  
FROM Customer  
GROUP BY Country  
ORDER BY NumberOfCustomers DESC;
```

28. What is the average Total of all invoices?

```
SELECT AVG(Total) AS AverageInvoiceTotal FROM Invoice;
```

29. Find the minimum and maximum UnitPrice of tracks.

```
SELECT  
MIN(UnitPrice) AS MinimumPrice,  
MAX(UnitPrice) AS MaximumPrice  
FROM Track;
```

30. Count the number of tracks for each Genre.

```
SELECT Genre.Name AS GenreName, COUNT(*) AS NumberOfTracks  
FROM Track  
JOIN Genre ON Track.GenreId = Genre.GenreId  
GROUP BY Genre.Name  
ORDER BY NumberOfTracks DESC;
```

31. Count the number of Artist for each Genre

```
SELECT Genre.Name AS GenreName, COUNT(*) AS NumberOfTracks
FROM Track
JOIN Genre ON Track.GenreId = Genre.GenreId
GROUP BY Genre.Name
ORDER BY NumberOfTracks DESC;
```

32. Get the total Milliseconds for all tracks in the database.

```
QUERY: SELECT SUM(Milliseconds) AS TotalMilliseconds
FROM Track;
```

33. Find the Name of the artist and the number of albums they have.

```
SELECT Artist.Name AS ArtistName, COUNT(*) AS NumberOfArtist FROM Artist
JOIN ON Album Artist.AlbumId = Album.AlbumId
GROUP BY ArtistName
ORDER BY Numberof Artist DESC;
```

34. Find the Name of the artist and the number of albums they have.

```
SELECT Artist.Name AS ArtistName, COUNT(Album.AlbumId) AS NumberOfAlbums
FROM Artist
JOIN Album ON Artist.ArtistId = Album.ArtistId
GROUP BY Artist.Name
ORDER BY NumberOfAlbums DESC;
```

35. List the FirstName and LastName of employees and the number of customers they support.

```
SELECT
e.FirstName,
e.LastName,
COUNT(c.CustomerId) AS NumberOfCustomers
```

```
FROM Employee e
LEFT JOIN Customer c ON e.EmployeeId = c.SupportRepId
GROUP BY e.FirstName, e.LastName
ORDER BY NumberOfCustomers DESC;
```

36. For each InvoiceId, count the number of InvoiceLine items.

```
SELECT
    InvoiceId,
    COUNT(*) AS NumberOfItems
FROM InvoiceLine
GROUP BY InvoiceId
ORDER BY NumberOfItems DESC;
```

37. Calculate the total quantity of tracks sold for each TrackId.

```
SELECT
    TrackId,
    SUM(Quantity) AS TotalQuantitySold
FROM InvoiceLine
GROUP BY TrackId
ORDER BY TotalQuantitySold DESC;
```

38. Find the Name of the playlist and the number of tracks in each playlist.

```
SELECT
    p.Name AS PlaylistName,
    COUNT(pt.TrackId) AS NumberOfTracks
FROM Playlist p
LEFT JOIN PlaylistTrack pt ON p.PlaylistId = pt.PlaylistId
GROUP BY p.Name
ORDER BY NumberOfTracks DESC;
```

39. Get the Name of the track, its Album Title, and the Artist Name.

```
SELECT
    Track.Name AS TrackName,
    Album.Title AS AlbumTitle,
    Artist.Name AS ArtistName
FROM Track
JOIN Album ON Track.AlbumId = Album.AlbumId
JOIN Artist ON album.ArtistId = Artist.ArtistId
ORDER BY Artist.Name, Album.Title, Track.Name;
OR
```

```
SELECT
    t.Name AS TrackName,
    a.Title AS AlbumTitle,
    ar.Name AS ArtistName
FROM Track t
JOIN Album a ON t.AlbumId = a.AlbumId
JOIN Artist ar ON a.ArtistId = ar.ArtistId
ORDER BY ar.Name, a.Title, t.Name;
```

40. List the FirstName, LastName of customers, and the FirstName, LastName of their support representative.

```
QUERY: SELECT
    c.FirstName AS CustomerFirstName,
    c.LastName AS CustomerLastName,
    e.FirstName AS SupportRepFirstName,
    e.LastName AS SupportRepLastName
FROM Customer c
```

```
JOIN Employee e ON c.SupportRepId = e.EmployeeId  
ORDER BY c.LastName, c.FirstName;
```

41. Calculate the total sales for each BillingCountry

```
SELECT  
    BillingCountry,  
    SUM(Total) AS TotalSales  
FROM Invoice  
GROUP BY BillingCountry  
ORDER BY TotalSales DESC;
```

42. Find the Genre with the most tracks

```
SELECT TOP 1  
    g.Name AS GenreName,  
    COUNT(t.TrackId) AS NumberOfTracks  
FROM Genre g  
JOIN Track t ON g.GenreId = t.GenreId  
GROUP BY g.Name  
ORDER BY NumberOfTracks DESC;
```

43. Which MediaType has the most tracks?

```
SELECT TOP 1  
    g.Name AS GenreName,  
    COUNT(t.TrackId) AS NumberOfTracks  
FROM Genre g
```

```
JOIN Track t ON g.GenreId = t.GenreId  
GROUP BY g.Name  
ORDER BY NumberOfTracks DESC;
```

44. How many distinct Composer names are there?

```
SELECT COUNT(DISTINCT Composer) AS DistinctComposerCount  
FROM Track;
```

45. Get the Name of each track and the Name of its Playlist (if it belongs to any playlist)

```
SELECT  
    t.Name AS TrackName,  
    p.Name AS PlaylistName  
FROM Track t  
LEFT JOIN PlaylistTrack pt ON t.TrackId = pt.TrackId  
LEFT JOIN Playlist p ON pt.PlaylistId = p.PlaylistId  
ORDER BY t.Name, p.Name;
```

46. List the ArtistName and the Album Title for all albums released by artists from 'AC/DC'

```
SELECT  
    ar.Name AS ArtistName,  
    al.Title AS AlbumTitle  
FROM Artist ar  
JOIN Album al ON ar.ArtistId = al.ArtistId  
WHERE ar.Name = 'AC/DC';
```

47. Find the total sales for each Customer, along with their FirstName and LastName.

```
SELECT
```



```
c.FirstName,  
c.LastName,  
SUM(i.Total) AS TotalSales  
FROM Customer c  
JOIN Invoice i ON c.CustomerId = i.CustomerId  
GROUP BY c.FirstName, c.LastName  
ORDER BY TotalSales DESC;
```

48. Get the FirstName, LastName of employees, and their Title, for employees who are not sales agents.

```
SELECT  
    FirstName,  
    LastName,  
    Title  
FROM Employee  
WHERE Title != 'Sales Support Agent' AND Title != 'Sales Manager';
```

49. How many tracks are in the 'Classical' genre?

```
SELECT COUNT(*) AS ClassicalTrackCount  
FROM Track t  
JOIN Genre g ON t.GenreId = g.GenreId  
WHERE g.Name = 'Classical';
```

50. Find the Name of artists who have at least 10 albums.

```
SELECT  
    ar.Name AS ArtistName,  
    COUNT(al.AlbumId) AS AlbumCount  
FROM Artist ar  
JOIN Album al ON ar.ArtistId = al.ArtistId
```

```
GROUP BY ar.Name  
HAVING COUNT(al.AlbumId) >= 10  
ORDER BY AlbumCount DESC;
```

51. List the Title of albums that have more than 20 tracks.

```
SELECT  
    al.Title AS AlbumTitle,  
    COUNT(t.TrackId) AS TrackCount  
FROM Album al  
JOIN Track t ON al.AlbumId = t.AlbumId  
GROUP BY al.Title  
HAVING COUNT(t.TrackId) > 20  
ORDER BY TrackCount DESC;
```

52. Get the Name of customers who have made more than 5 purchases (invoices).

```
SELECT  
    c.FirstName,  
    c.LastName,  
    COUNT(i.InvoiceId) AS InvoiceCount  
FROM Customer c  
JOIN Invoice i ON c.CustomerId = i.CustomerId  
GROUP BY c.FirstName, c.LastName  
HAVING COUNT(i.InvoiceId) > 5  
ORDER BY InvoiceCount DESC;
```

53. Find the TrackId and Name of tracks that have never been purchased.

```
SELECT  
    t.TrackId,  
    t.Name
```

```
FROM Track t
LEFT JOIN InvoiceLine il ON t.TrackId = il.TrackId
WHERE il.TrackId IS NULL;
```

54. List the EmployeeId, FirstName, LastName of employees who are managers (they have employees reporting to them)

```
SELECT DISTINCT
m.EmployeeId,
m.FirstName,
m.LastName
FROM Employee e
JOIN Employee m ON e.ReportsTo = m.EmployeeId;
```

55. Get the Name of tracks that are part of the 'Classical' genre and have a UnitPrice greater than 0.99.

```
SELECT
t.Name
FROM Track t
JOIN Genre g ON t.GenreId = g.GenreId
WHERE g.Name = 'Classical' AND t.UnitPrice > 0.99;
```

56. Find the ArtistName who has the longest total Milliseconds across all their tracks.

```
SELECT
ar.Name AS ArtistName,
SUM(t.Milliseconds) AS TotalMilliseconds
FROM Track t
JOIN Album al ON t.AlbumId = al.AlbumId
JOIN Artist ar ON al.ArtistId = ar.ArtistId
GROUP BY ar.Name
```

ORDER BY TotalMilliseconds DESC;

57. List the Title of the album that has the most tracks.

```
SELECT
    a.Title,
    COUNT(t.TrackId) AS TrackCount
FROM Album a
JOIN Track t ON a.AlbumId = t.AlbumId
GROUP BY a.AlbumId, a.Title
ORDER BY TrackCount DESC;
```

58. Get the Name of the customer who spent the most money.

```
SELECT
    c.FirstName,
    c.LastName,
    SUM(i.Total) AS TotalSpent
FROM Customer c
JOIN Invoice i ON c.CustomerId = i.CustomerId
GROUP BY c.CustomerId, c.FirstName, c.LastName
ORDER BY TotalSpent DESC;
```

59. Find the Genre that generated the highest total sales.

```
SELECT
    g.Name AS Genre,
    SUM(il.UnitPrice * il.Quantity) AS TotalSales
FROM InvoiceLine il
JOIN Track t ON il.TrackId = t.TrackId
JOIN Genre g ON t.GenreId = g.GenreId
```

GROUP BY g.GenreId, g.Name

ORDER BY TotalSales DESC;

60. List all InvoiceIds where the Total is greater than the average invoice total.

SELECT InvoiceId, Total

FROM Invoice

WHERE Total > (

SELECT AVG(Total) FROM Invoice

);