Business Analytics Nanodegree Program

Udacity Nanodegree (In Collaboration with Tableau and Mode)
Course-3: SQL for Data Analysis
Project: Query Digital Music Store

1. What Albums have the greatest number of tracks?
SELECT a.Title AS AlbumName, COUNT(*) AS Tracks
FROM Track t JOIN Album a
ON a.AlbumId = t.AlbumId GROUP BY AlbumName
ORDER BY Tracks DESC LIMIT 10;

2. Which artists have at least 10 or more albums ?
SELECT ar.Name AS ArtistName, COUNT(*) AS Albums
FROM Album AS al
JOIN Artist as ar
ON ar.ArtistId = al.ArtistId
GROUP BY ArtistName
HAVING Albums >= 10
ORDER BY Albums DESC

3. How many customer do we have per sales agent?
SELECT e.FirstName || " " || e.LastName AS SalesAgent,
COUNT(c.SupportRepId) as NumberofCustomers
FROM Employee e JOIN Customer c
ON c.SupportRepId = e.EmployeeId
GROUP BY e.EmployeeId;

4. Which day of the week has maximum sales?
SELECT (SUM(UnitPrice * Quantity)) AS Sales,
CASE CAST(strftime('%w', i.InvoiceDate) AS integer)
WHEN 0 THEN 'Sunday'
WHEN 1 THEN 'Monday'
WHEN 2 THEN 'Tuesday'
WHEN 3 THEN 'Wednesday'
WHEN 4 THEN 'Thursday'
WHEN 5 THEN 'Friday'
WHEN 6 THEN 'Saturday'
ELSE 'NA' END AS DayofWeek
FROM Invoice AS i
JOIN InvoiceLine AS il
ON i.InvoiceId = il.InvoiceId
GROUP BY DayofWeek
ORDER BY Sales DESC