# Assignment Microsoft Power BI

# A. SQL Queries (Azure SQL)

--Q1

SELECT SUM(il.UnitPrice) as Total\_Sales FROM chinook.InvoiceLine il;

Total rows: 1

--Q2

SELECT c.Country, SUM(il.UnitPrice) as Total\_Sales, RANK() OVER(ORDER BY SUM(il.UnitPrice) DESC) AS Rank

FROM chinook.InvoiceLine il

JOIN chinook.Invoice i ON il.InvoiceId = i.InvoiceId

JOIN chinook.Customer c ON c.CustomerId = i.CustomerId

GROUP BY c.Country

ORDER BY Rank

Total rows: 24

--Q3

SELECT c.Country, c.State, c.City, SUM(il.UnitPrice) as Total\_Sales

FROM chinook.InvoiceLine il

JOIN chinook.Invoice i ON il.InvoiceId = i.InvoiceId

JOIN chinook.Customer c ON c.CustomerId = i.CustomerId

GROUP BY c.Country, c.State, c.City

Total rows: 53

--Q4

SELECT c.LastName + ', ' + c.FirstName AS CustomerName, SUM(il.UnitPrice) as Total\_Sales, RANK() OVER(ORDER BY SUM(il.UnitPrice) DESC) AS Rank

FROM chinook.InvoiceLine il

JOIN chinook.Invoice i ON il.InvoiceId = i.InvoiceId

JOIN chinook.Customer c ON c.CustomerId = i.CustomerId

GROUP BY c.LastName, c.FirstName

ORDER BY Rank

Total rows: 59

--Q5

SELECT a.Name AS Artist\_Name, SUM(il.UnitPrice) as Total\_Sales, RANK() OVER(ORDER BY SUM(il.UnitPrice) DESC) AS Rank

FROM chinook.InvoiceLine il

JOIN chinook.Track tr ON tr.TrackId = il.TrackId

JOIN chinook.Album al ON al.AlbumId = tr.AlbumId

JOIN chinook.Artist a ON a.ArtistId = al.ArtistId

GROUP BY a.Name

ORDER BY Rank

Total rows: 165

--Q6

SELECT a.Title as Album\_Name, SUM(il.UnitPrice) as Total\_Sales

FROM chinook.InvoiceLine il

JOIN chinook.Track tr ON il.TrackId = tr.TrackId

JOIN chinook.Album a ON a.AlbumId = tr.AlbumId

GROUP BY a.Title

Total rows: 304

--Q7

SELECT e.LastName + ', ' + e.FirstName AS EmployeeName, SUM(il.UnitPrice) AS TotalSales

FROM chinook.InvoiceLine il

JOIN chinook.Invoice i ON il.InvoiceId = i.InvoiceId

JOIN chinook.Customer c ON i.CustomerId = c.CustomerId

JOIN chinook.Employee e ON e.EmployeeId = c.SupportRepId

GROUP BY e.LastName, e.FirstName

Total rows: 3

--Q8

SELECT mt.Name, SUM(tr.TrackId) AS Total\_Tracks, SUM(il.UnitPrice) AS Total\_Sales

FROM chinook.InvoiceLine il

JOIN chinook.Track tr ON il.TrackId = tr.TrackId

JOIN chinook.MediaType mt ON tr.MediaTypeId = mt.MediaTypeId

GROUP BY mt.Name

Total rows: 5

--Q9

SELECT c.LastName + ', ' + c.FirstName AS CustomerName, SUM(il.UnitPrice) as Total\_Sales

FROM chinook.InvoiceLine il

JOIN chinook.Invoice i ON il.InvoiceId = i.InvoiceId

JOIN chinook.Customer c ON c.CustomerId = i.CustomerId

GROUP BY c.LastName, c.FirstName

Total rows: 59

--Q10

SELECT g.Name, SUM(il.UnitPrice) AS Total\_Sales

FROM chinook.InvoiceLine il

JOIN chinook.Track tr ON il.TrackId = tr.TrackId

JOIN chinook.Genre g ON g.GenreId = tr.GenreId

GROUP BY g.Name  
Total rows: 24