**Microsoft Azure SQL Database – Query Assignment**

**Database name:** AdventureWorksLT - sample

**Query 1a:**

select sum(linetotal) as TotalSales from saleslt.salesorderdetail

**Query 1b:**

select sum(totaldue) as TotalSales from saleslt.salesorderheader

**Query 2:**

select a.countryregion as CountryName, sum(s.totaldue) as Sales, RANK() OVER (ORDER BY sum(s.totaldue) DESC) AS CountryRank from saleslt.salesorderheader s inner join saleslt.customer c on s.customerid = c.customerid inner join saleslt.customeraddress ca on c.customerid = ca.customerid inner join saleslt.address a on ca.addressid = a.addressid group by a.countryregion

**Query 3:**

select a.city as CityName, a.countryregion as CountryName, sum(s.totaldue) as Sales, RANK() OVER (ORDER BY sum(s.totaldue) DESC) AS CityRank from saleslt.salesorderheader s inner join saleslt.customer c on s.customerid = c.customerid inner join saleslt.customeraddress ca on c.customerid = ca.customerid inner join saleslt.address a on ca.addressid = a.addressid group by a.countryregion, a.city

**Query 4:**

select concat (c.firstname + ' ', c.lastname) as CustomerName, sum(s.totaldue) as Sales, RANK() OVER (ORDER BY sum(s.totaldue) DESC) AS CustomerRank from saleslt.salesorderheader s inner join saleslt.customer c on s.customerid = c.customerid group by concat (c.firstname + ' ', c.lastname)

**Query 5:**

select pc.name as ProductCategoryName, sum(sh.totaldue) as Sales, RANK() OVER (ORDER BY sum(sh.totaldue) DESC) AS ProductCategoryRank from saleslt.salesorderheader sh inner join saleslt.salesorderdetail sd on sh.salesorderid = sd.salesorderid inner join saleslt.product p on sd.productid = p.productid inner join saleslt.productcategory pc on p.productcategoryid = pc.productcategoryid group by pc.name

**Query 6:**

select p.name as ProductName, sum(sh.totaldue) as Sales, RANK() OVER (ORDER BY sum(sh.totaldue) DESC) AS ProductCategoryRank from saleslt.salesorderheader sh inner join saleslt.salesorderdetail sd on sh.salesorderid = sd.salesorderid inner join saleslt.product p on sd.productid = p.productid group by p.name