**Assignment instructions**

1. Shows the total number of sales orders per year for each sales representative at Adventure Works Cycles.
2. Write a query using a CTE to retrieve the names and total sales amount of all customers who have made more than one purchase.
3. Write a CTE that returns the average salary of employees in each department, along with the total number of employees in that department.

#### Questions for this assignment

1. Write a query in SQL to find those persons who lives in a territory and the value of salesytd except 0. Return first name, last name,row number as 'Row Number', 'Rank', 'Dense Rank' and NTILE as 'Quartile', salesytd and postalcode. Order the output on postalcode column.

Insert your answer here

2. Write a SQL query to return the businessentityid, firstname and lastname columns of all persons in the person table (derived table) with persontype is 'IN' and the last name is 'Adams'. Sort the result set in ascending order on firstname. A SELECT statement after the FROM clause is a derived table

Insert your answer here

**How did you do?**

Compare the instructor's example to your own

#### Instructor example



[Trevoir Williams](https://www.udemy.com/user/trevoirwilliams/)

Write a query in SQL to find those persons who lives in a territory and the value of salesytd except 0. Return first name, last name,row number as 'Row Number', 'Rank', 'Dense Rank' and NTILE as 'Quartile', salesytd and postalcode. Order the output on postalcode column.

SELECT p.FirstName, p.LastName

,ROW\_NUMBER() OVER (ORDER BY a.PostalCode) AS "Row Number"

,RANK() OVER (ORDER BY a.PostalCode) AS "Rank"

,DENSE\_RANK() OVER (ORDER BY a.PostalCode) AS "Dense Rank"

,NTILE(4) OVER (ORDER BY a.PostalCode) AS "Quartile"

,s.SalesYTD, a.PostalCode

FROM Sales.SalesPerson AS s

INNER JOIN Person.Person AS p

ON s.BusinessEntityID = p.BusinessEntityID

INNER JOIN Person.Address AS a

ON a.AddressID = p.BusinessEntityID

WHERE TerritoryID IS NOT NULL AND SalesYTD <> 0;

Write a SQL query to return the businessentityid, firstname and lastname columns of all persons in the person table (derived table) with persontype is 'IN' and the last name is 'Adams'. Sort the result set in ascending order on firstname. A SELECT statement after the FROM clause is a derived table

SELECT businessentityid, firstname,lastname

FROM

(SELECT \* FROM person.person

WHERE persontype = 'IN') AS personDerivedTable

WHERE lastname = 'Adams'

ORDER BY firstname;