Name: Derek Coleman Class: CIS355-001

Instructor: Dr. Gretchen Castella

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Homework #11

```
    SELECT parent.AnimalName AS "Mother's Name",
COUNT(child.AnimalID) AS "Number of Children"
FROM Animal AS parent
INNER JOIN Animal AS child
ON parent.AnimalID = child.MotherAnimalID
WHERE parent.AnimalID = child.MotherAnimalID
GROUP BY parent.AnimalName
```

- 2. a. 3 columns are returned.
 - b. The function used is not an aggregate function, and therefore, does not need a GROUP BY clause.
 - c. It will only include employees, since the table join is based on the predicate that the BusinessEntityID in the Person.Person table is the same as the one in the HumaResources.Employee table.
 - d. It will NOT include all employees, since the WHERE clause filters out those are not current and salaried employees.
 - e. The "Years with Company" column was defined in the SELECT clause, and since the SELECT clause is executed before the ORDER BY clause, the definition remains valid in the ORDER BY clause.

```
f. SELECT Person.Person.FirstName + ' ' + Person.Person.LastName AS "Employee",
             HumanResources.Employee.JobTitle,
              YEAR(GETDATE())-YEAR(HireDate) AS "Years with Company"
       FROM Person.Person INNER JOIN HumanResources.Employee
             ON Person.Person.BusinessEntityID =
             HumanResources.Employee.BusinessEntityID
       WHERE CurrentFlag = 1 AND SalariedFlag = 1 AND YEAR(GETDATE())-YEAR(HireDate) < 15</pre>
       ORDER BY "Years with Company" DESC
3. SELECT SUM(SickLeaveHours) AS "Total Sick Leave Hours"
   FROM HumanResources. Employee
   WHERE CurrentFlag = 1
4. SELECT Employee.NationalIDNumber AS "National ID",
       Employee.JobTitle AS "Job Title",
       Employee.SickLeaveHours As "Sick Leave Hours"
   FROM HumanResources. Employee
   WHERE CurrentFlag = 1 AND SickLeaveHours > (Select AVG(SickLeaveHours) FROM
       HumanResources.Employee)
```

```
5. SELECT Person.Person.FirstName + ' ' + Person.Person.LastName AS "Employee",
      Employee.NationalIDNumber AS "National ID",
      Employee.JobTitle AS "Job Title",
      Employee SickLeaveHours As "Sick Leave Hours"
   FROM HumanResources. Employee
      INNER JOIN Person.Person
      ON Employee.BusinessEntityID = Person.BusinessEntityID
   WHERE CurrentFlag = 1 AND SickLeaveHours > (Select AVG(SickLeaveHours) FROM
      HumanResources.Employee)
SELECT Employee.JobTitle AS "Job Title",
      SUM(Employee.SickLeaveHours) AS "Total Sick Leave Hours"
   FROM HumanResources. Employee
   WHERE CurrentFlag = 1
   GROUP BY Employee.JobTitle
7. SELECT DISTINCT SalesTerritory.Name AS "Sales Territory"
   FROM Sales.SalesTerritory
   WHERE NOT EXISTS
       (SELECT DISTINCT SalesPerson.TerritoryID FROM Sales.SalesPerson WHERE
      SalesPerson.TerritoryID = SalesTerritory.TerritoryID)
```