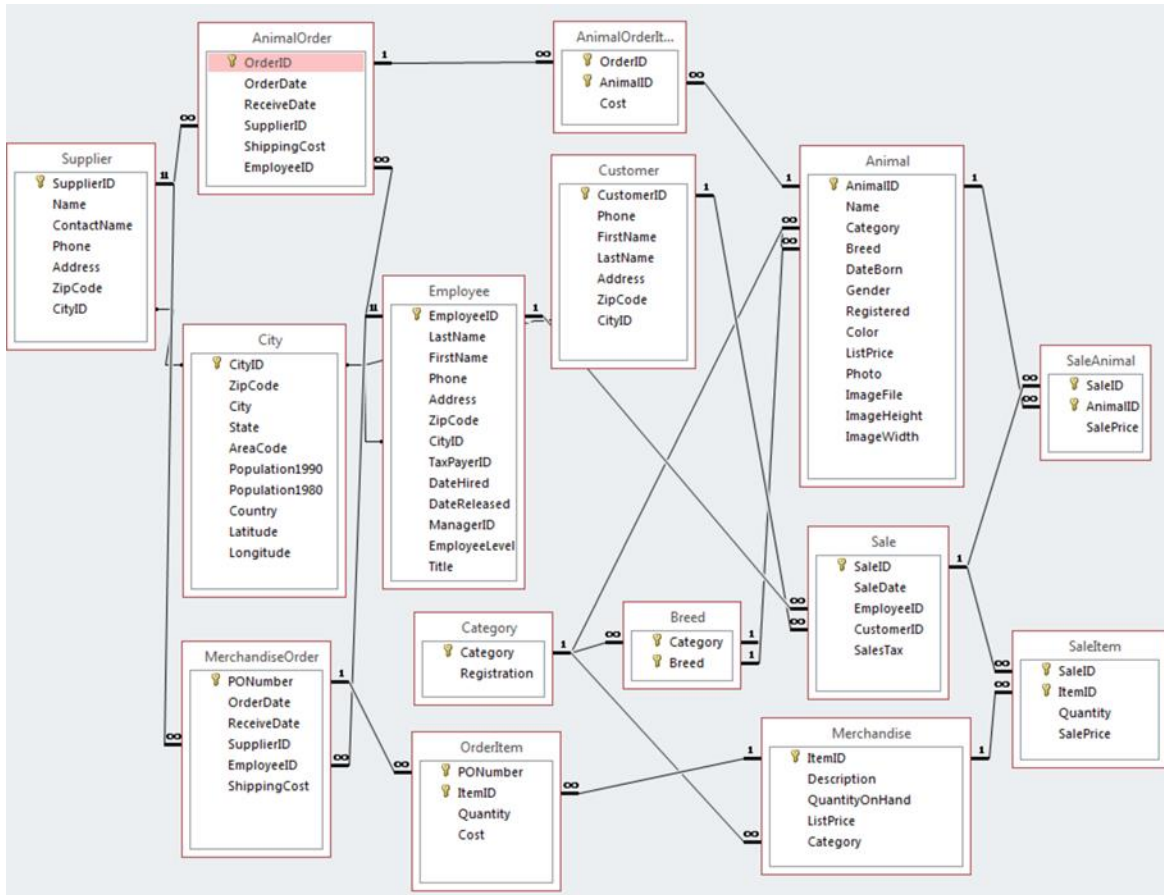


## Assignment:

Use the data model shown below for this assignment:



1. List the products with a list price greater than the average list price of all products. Make sure you do this in one single query.

ItemID	Description	ListPrice
1	Dog Kennel-Small	45.00
2	Dog Kennel-Medium	65.00
3	Dog Kennel-Large	85.00
4	Dog Kennel-Extra Large	110.00
6	Cat Bed-Medium	35.00

```
SELECT ItemID, Description, ListPrice FROM PET..Merchandise WHERE ListPrice > (SELECT AVG(ListPrice) FROM PET..Merchandise);
```

2. List the employees and their total merchandise sales expressed as a percentage of total merchandise sales for all employees. TotalSales is Sum(SalePrice\*Quantity). PctSales is TotalSales for an employee / TotalSales for all employees.

EmployeeID	FirstName	LastName	TotalSales	PctSales
4	Alan	Hopkins	1643.76	0.1944
2	Bill	Gibson	1311.75	0.1552
3	Katy	Reasoner	1144.60	0.1354
1	Keith	Reeves	1070.28	0.1266
7	Dustin	Farris	1016.73	0.1202
5	Leisha	James	1002.87	0.1186
8	Carlos	Carpenter	669.60	0.0792
9	Jessica	O'Connor	311.40	0.0368
6	Anissa	Eaton	196.20	0.0232
10	Howard	Shields	84.60	0.01
11	Sally	Smith	0.00	0.00

```

SELECT E.EmployeeID, E.FirstName, E.LastName, S.TotalSales, (S.TotalSales/(SELECT
SUM(SI.SalePrice)
FROM PET..Sale S
INNER JOIN (SELECT SI.SaleID, SUM(SI.Quantity * SI.SalePrice) AS SalePrice
FROM PET..SaleItem SI
GROUP BY SI.SaleID) SI ON S.SaleID = SI.SaleID)) AS PctSales
FROM PET..Employee E
INNER JOIN (
SELECT S.EmployeeID, SUM(SI.SalePrice) AS TotalSales
FROM PET..Sale S
INNER JOIN (SELECT SI.SaleID, SUM(SI.Quantity * SI.SalePrice) AS SalePrice
FROM PET..SaleItem SI
GROUP BY SI.SaleID) SI ON S.SaleID = SI.SaleID
GROUP BY S.EmployeeID) S ON E.EmployeeID = S.EmployeeID
ORDER BY S.TotalSales DESC;

```

3. Which customers who bought more than \$100 in merchandise in May also spent more than \$50 on merchandise in October? MayTotal is Sum(SalePrice\*Quantity) for the month of May. Function Month(date) returns the month included in the date.

CustomerID	LastName	FirstName	MayTotal
47	Carver	Bernice	194.40

```
SELECT C.CustomerID, C.LastName, C.FirstName, MayTotal
FROM PET..Customer C
INNER JOIN (
SELECT S.CustomerID, S.SaleID, MONTH(S.SaleDate) AS SaleMonth
FROM PET..Sale S
WHERE MONTH(S.SaleDate) = 5) S ON C.CustomerID = S.CustomerID
INNER JOIN (
SELECT SI.SaleID, SUM(SI.Quantity * SI.SalePrice) AS MayTotal
FROM PET..SaleItem SI
GROUP BY SI.SaleID
HAVING SUM(SI.Quantity * SI.SalePrice) > 100) SI ON S.SaleID = SI.SaleID
INNER JOIN (
SELECT S2.CustomerID, S2.SaleID
FROM PET..Sale S2
WHERE MONTH(S2.SaleDate) = 10) S2 ON C.CustomerID = S2.CustomerID
INNER JOIN (
SELECT SI2.SaleID
FROM PET..SaleItem SI2
GROUP BY SI2.SaleID
HAVING SUM(SI2.Quantity * SI2.SalePrice) > 50) SI2 ON S2.SaleID = SI2.SaleID;
```