```
...ve - University of Louisville\Spring 2017\CIS 310\HW8.sql
```

```
1
```

```
-- 1
Select Itemid, Description, listprice
from PET..Merchandise
where (ListPrice >= (SELECT AVG(listprice) from PET..Merchandise));
SELECT m.ItemID, AVG(o.Cost) as "Average Cost", AVG(s.SalePrice) as "Average Sale
  Price"
FROM PET..OrderItem as "o" INNER JOIN PET..Merchandise as "M" ON (o.ItemID = m.ItemID) >
INNER JOIN PET..SaleItem as "S" ON (m.ItemID = s.ItemID)
GROUP BY m.ItemID
HAVING (AVG(s.SalePrice) > AVG(o.Cost) * 1.5);
-- 3
SELECT e.EmployeeID, sum(i.SalePrice) as "TotalSales", (sum(i.SalePrice)/ (SELECT sum →
  (SalePrice) from PET..SaleItem)) as "PctSales"
FROM (PET..Employee as "e"
INNER JOIN PET..Sale as "s" ON (e.EmployeeID = s.EmployeeID)
INNER JOIN PET..SaleItem as "i" ON (s.SaleID = i.SaleID))
GROUP BY e.EmployeeID
-- 4
-- Create View for Tempoary Calc
USE [CIS31036]
DROP VIEW [PET].[Q4View];
CREATE VIEW [PET].[Q4View] AS
SELECT s.SupplierID, s.Name, (po.cost) as "Total Cost of order", o.ShippingCost as
  "shipping cost", sum(po.cost)/o.ShippingCost as "pctShip"
FROM PET..Supplier as "S" INNER JOIN PET..MerchandiseOrder as "o" ON (s.SupplierID = >
  o.SupplierID)
INNER JOIN PET..OrderItem as "po" ON (o.PONumber = po.PONumber)
GROUP BY s.SupplierID, s.Name, po.Cost, po.PONumber, o.ShippingCost;
GO
SELECT TOP 1 s.SupplierID, s.Name, avg(s.pctShip) as "pctShipCost"
FROM CIS31036.PET.Q4View as s
GROUP BY s.SupplierID, s.Name
ORDER BY "pctShipCost" DESC
-- 5
-- Using TOP and Order By to Show the Biggest GrandTotal :) - Nga
SELECT TOP 1 c.CustomerID, c.LastName, c.FirstName, sum(a.SalePrice) as "Animal
  Total", sum(i.SalePrice) as "MercTotal", (sum(a.SalePrice) + sum(i.SalePrice)) as
  "GrandTotal"
FROM PET..Customer as "c" INNER JOIN PET..Sale "s" ON (c.CustomerID = s.CustomerID)
INNER JOIN PET..SaleAnimal as "a" ON (s.SaleID = a.SaleID)
```

```
...ve - University of Louisville\Spring 2017\CIS 310\HW8.sql
```

```
2
```

```
INNER JOIN PET..SaleItem as "i" ON (s.SaleID = i.SaleID)
GROUP BY c.CustomerID, c.LastName, c.FirstName
ORDER BY GrandTotal DESC
-- 6
SELECT c.CustomerID, c.LastName, c.FirstName, (SELECT sum(i1.SaleID)
                                                FROM PET..Customer as "c1" INNER JOIN >
                      PET..Sale as "s1" ON (c1.CustomerID = s1.CustomerID)
                                                INNER JOIN PET...SaleItem as "i1" ON
                      (s1.SaleID = i1.SaleID)
                                                WHERE c1.CustomerID = c.CustomerID
                                              ) as "MayTotal"
FROM PET..Customer as "c"
INNER JOIN PET..Sale as "s" ON (c.CustomerID = s.CustomerID)
INNER JOIN PET..SaleItem as "i" ON (s.SaleID = i.SaleID)
WHERE c.CustomerID IN
                        (SELECT s2.CustomerID
                         FROM PET.. Sale as "s2" INNER JOIN PET.. SaleItem as "i2" ON
                      (s2.SaleID = i2.SaleID)
                         WHERE (s2.SaleDate >= '2004-05-01' and s2.SaleDate <=
                      '2004-05-31')
                         GROUP BY s2.CustomerID
                         HAVING sum(i2.SalePrice) > 100
                        and
       c.CustomerID IN (SELECT s2.CustomerID
                         FROM PET..Sale as "s2" INNER JOIN PET..SaleItem as "i2" ON
                      (s2.SaleID = i2.SaleID)
                         WHERE (s2.SaleDate >= '2004-10-01' and s2.SaleDate <=
                      '2004-10-31')
                         GROUP BY s2.CustomerID
                         HAVING sum(i2.SalePrice) > 50
                        )
GROUP BY c.CustomerID, c.LastName, c.FirstName
-- 7
SELECT m.Description, m.ItemID, sum(ord.Quantity) as "purchased", sum(i.Quantity) as →
  "sold"
FROM PET...MerchandiseOrder as "po"
    INNER JOIN PET..OrderItem as "ord" ON (po.PONumber = ord.PONumber)
    INNER JOIN PET..Merchandise as "m" ON (ord.ItemID = m.ItemID)
    INNER JOIN PET..SaleItem as "i" ON (m.ItemID = i.ItemID)
    INNER JOIN PET..Sale as "sale" ON (i.SaleID = sale.SaleID)
WHERE (
        m.ItemID = '16' -- Dog Food-Can Premuim
        and
         (
             (po.OrderDate >= '2004-01-01' and po.OrderDate <= '2004-07-01')
```

```
and
             (sale.SaleDate >= '2004-01-01' and sale.SaleDate <= '2004-07-01')
GROUP BY m.Description, m.ItemID
SELECT *
FROM PET...MerchandiseOrder as "po"
    INNER JOIN PET..OrderItem as "ord" ON (po.PONumber = ord.PONumber)
    INNER JOIN PET..Merchandise as "m" ON (ord.ItemID = m.ItemID)
    INNER JOIN PET..SaleItem as "i" ON (m.ItemID = i.ItemID)
    INNER JOIN PET..Sale as "sale" ON (i.SaleID = sale.SaleID)
WHERE (
        m.ItemID = '16' -- Dog Food-Can Premuim
        and
         (
             (sale.SaleDate >= '2004-01-01' and sale.SaleDate <= '2004-07-01')
      )
-- 8
SELECT m.ItemID, m.Description, m.ListPrice, sales.SaleDate
FROM PET..Merchandise as "m" inner JOIN PET..SaleItem as "i" ON (m.ItemID) >
right OUTER JOIN PET..Sale as "sales" ON (i.SaleID = sales.SaleID)
WHERE sales.SaleDate not between '2004-07-01' and '2004-07-31' or sales.SaleDate is →
SELECT m.ItemID, m.Description, m.ListPrice
from PET..Merchandise as "m"
WHERE
-- Determine what was purchased
(m.ItemID NOT IN (
SELECT m.ItemID
FROM PET..Sale as "sales" inner join PET..SaleItem as "i" ON (i.SaleID = sales.SaleID) >
     right join PET..Merchandise as "m" ON (m.ItemID = i.ItemID)
WHERE sales.SaleDate between '2004-07-01' and '2004-07-31' -- and sales.SaleDate is
 null
))
-- 9
SELECT m.itemid, m.description, m.QuantityOnHand, oi.ItemID
FROM PET..MerchandiseOrder MO full outer join PET..OrderItem OI ON (MO.PONumber =
  OI.PONumber)
    FULL OUTER JOIN PET..Merchandise M ON (oi.ItemID = m.ItemID)
WHERE M.QuantityOnHand > 100 and (MO.orderdate not like '%2004%' or MO.orderDate is
```

```
null)
SELECT m. ItemID, m. Description, m. QuantityOnHand
from PET..Merchandise as "m"
-- Determine what was purchased
(m.ItemID NOT IN (
SELECT DISTINCT m.ItemID
FROM PET..MerchandiseOrder MO left join PET..OrderItem OI ON (MO.PONumber =
     left JOIN PET..Merchandise M ON (oi.ItemID = m.ItemID)
WHERE mo.OrderDate not like '2004%' or mo.OrderDate is null
) and m.QuantityOnHand > 100)
-- 11
-- Create table
Create Table CIS31036.PET.C_Category (
    category varchar(4),
    low int,
    high int
)
GO --insert categories
Insert into CIS31036.PET.C_Category (category, low, high) VALUES ('Weak',0,200);
insert into CIS31036.PET.C_Category (category, low, high) VALUEs ('Good',200, 800);
insert into CIS31036.PET.C_Category (category, low, high) VALUES ('Best', 800, 10000);
GO --Test insert
SELECT * from CIS31036.PET.C_Category;
USE CIS31036;
CREATE VIEW PET.C_Totals AS
SELECT c.CustomerID, c.LastName, c.FirstName, (sum(a.SalePrice) + sum(i.SalePrice))
  as "GrandTotal"
FROM PET..Customer as "c" INNER JOIN PET..Sale "s" ON (c.CustomerID = s.CustomerID)
INNER JOIN PET..SaleAnimal as "a" ON (s.SaleID = a.SaleID)
INNER JOIN PET..SaleItem as "i" ON (s.SaleID = i.SaleID)
GROUP BY c.CustomerID, c.LastName, c.FirstName
GO
SELECT cu.CustomerID, cu.LastName, cu.FirstName, c.category
FROM CIS31036.PET.C Totals as cu
INNER JOIN CIS31036.PET.C_Category as c ON (cu.GrandTotal >= c.low and cu.GrandTotal <→
```

WHERE po.OrderDate between '2004-07-01' and '2004-07-31'

```
c.high)

-- 12

SELECT s.Name, 'Animal' as "Order Type"
FROM PET..Supplier s inner join PET..AnimalOrder ao ON (s.SupplierID = ao.SupplierID)
WHERE ao.OrderDate between '2004-07-01' and '2004-07-31'

UNION

SELECT s.Name, 'Merchandise' as "Order Type"
FROM PET..Supplier s
   INNER JOIN PET..MerchandiseOrder as po ON (s.SupplierID = po.SupplierID)
```