Assignment 11

Chad Tracy  
CIS 310-01  
DUE: 4/13/2016

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--Access tables in database

SELECT \*

FROM PET ..Animal

--1. List the products with a list price greater than the average list price of all products.

SELECT \*

FROM PET.. Animal

WHERE ListPrice > (SELECT AVG(ListPrice) FROM PET .. Animal)

--2. Which merchandise items have an average sale price more than 50 percent higher than their average purchase cost?

SELECT \*

FROM PET..OrderItem O INNER JOIN PET..SaleItem S

ON O.ItemID = S.ItemID

WHERE (SELECT AVG(Cost) FROM PET..OrderItem) > ((SELECT AVG(SalePrice) FROM PET..SaleItem) \* 1.5)

ORDER BY SalePrice

--3. List the employees and their total merchandise sales expressed as a percentage of total merchandise sales for all employees.

SELECT EmployeeID, (SELECT Quantity/SUM(Quantity) \* 100)

FROM PET..Sale S INNER JOIN PET..SaleItem I

ON S.SaleID = I.SaleID

ORDER BY EmployeeID

--4. On average, which supplier charges the highest shipping cost as a percent of the merchandise order total?

SELECT avg(ShippingCost) \* 100 / sum(ShippingCost), SupplierID

FROM PET..MerchandiseOrder

GROUP BY SupplierID

--5. Which customer has given us the most total money for animals and merchandise?

SELECT sum(PET..SaleAnimal.SalePrice) + sum(PET..SaleItem.SalePrice) as Money\_Given\_By\_ID

FROM PET..SaleAnimal INNER JOIN PET..Sale

ON PET..SaleAnimal.SaleID = PET..Sale.SaleID

INNER JOIN PET..SaleItem

ON PET..Sale.SaleID = PET..SaleItem.SaleID

group by CustomerID

order by Money\_Given\_By\_ID desc

--6. Which customers who bought more than $100 in merchandise in May also spent more than $50 on merchandise in October?

create view V May as

select C.customerid, FirstName, LastName, SaleDate, SUM(SalePrice \* Quantity) as 'Total', S.SaleID

FROM PET..Customer C INNER JOIN PET..Sale S

on C.CustomerID = S.CustomerID INNER JOIN PET..SaleItem SI

on SI.SaleID = S.SaleID INNER JOIN Pet..SaleAnimal SA

on SA.SaleID = S.SaleID

where SaleDate between '2004-05-01' and '2004-05-31'

GROUP BY SaleDate, C.CustomerID, FirstName, LastName, S.SaleID

having sum(SalePrice\*Quantity) > 100

create view V October as

select C.customerid, FirstName, LastName, SaleDate, SUM(SalePrice \* Quantity) as 'Total', S.SaleID

FROM PET..Customer C INNER JOIN PET..Sale S

on C.CustomerID = S.CustomerID INNER JOIN PET..SaleItem SI

on SI.SaleID = S.SaleID INNER JOIN Pet..SaleAnimal SA

on SA.SaleID = S.SaleID

where SaleDate between '2004-10-01' and '2004-10-31'

GROUP BY SaleDate, C.CustomerID, FirstName, LastName, S.SaleID

having sum(SalePrice \* Quantity) > 50

--7. What was the net change in quantity on hand for premium canned dog food between January 1 and July 1?

SELECT (SELECT SUM(QuantityOnHand)

FROM PET..Merchandise M INNER JOIN PET..SaleItem S

ON M.ItemID = S.ItemID INNER JOIN PET..Sale L

ON S.SaleID = L.SaleID

WHERE month(SaleDate) >= 1 and day(SaleDate) >= 1 and month(SaleDate) < 7)

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(SELECT SUM(QuantityOnHand)

FROM PET..Merchandise M INNER JOIN PET..SaleItem S

ON M.ItemID = S.ItemID INNER JOIN PET..Sale L

ON S.SaleID = L.SaleID

WHERE month(SaleDate) >= 7 and day(SaleDate) >= 1) AS CHANGE\_IN\_PREMIUM\_DOG\_FOOD

FROM PET..Merchandise

WHERE Description = 'Dog Food-Can-Premium'

--8. Which merchandise items with a list price of more than $50 hand no sales July?

SELECT \*

FROM PET..Merchandise M INNER JOIN PET..SaleItem S

ON M.ItemID = S.ItemID INNER JOIN PET..Sale L

ON S.SaleID = L.SaleID

WHERE M.ListPrice > 50 and (select month(L.SaleDate) where month(L.SaleDate) = 6) is null

--9. Which merchandise items with more than 100 units on hand have not been ordered in 2004?

SELECT \*

FROM PET..Merchandise M INNER JOIN PET..SaleItem S

ON M.ItemID = S.ItemID INNER JOIN PET..Sale L

ON S.SaleID = L.SaleID

WHERE QuantityOnHand > 50 and (select year(L.SaleDate) where year(L.SaleDate) = 2004) is null

--10. Populate Table

CREATE TABLE CategoryB

(Category CHAR(10) PRIMARY KEY,

Low DECIMAL(3,0),

High DECIMAL (5,0))

INSERT INTO CategoryB

VALUES( 'Weak', 0, 200)

INSERT INTO CategoryB

VALUES('Good', 200, 800)

INSERT INTO CategoryB

VALUES('Best', 800, 10000)

--11.Generate the following results using the Category table you created in 10

--and the results in Exercise 5 of total amount of money spent by each customer.

select C.CustomerID, FirstName, LastName, Sum(SA.SalePrice) + sum(SI.SalePrice \* Quantity) as GrandTotal, Category

from PET..Customer C inner join PET..Sale S

on C.CustomerID = S. CustomerID INNER JOIN PET..SaleItem SI

on SI.SaleID = S.SaleID inner join PET..SaleAnimal SA

on SA.SaleID = S.SaleID, CustomersCategory C

group by C.CustomerID, LastName, Category

order by TotalDesc

--12. List all suppliers (animals and merchandise) who sold us items in June. Identify whether they sold use animals or merchandise.

SELECT SupplierID, 'Merchandise' AS "Type"

FROM PET..MerchandiseOrder

WHERE month(OrderDate) = 6

UNION

SELECT SupplierID, 'Animal' AS "Type"

FROM PET..AnimalOrder

WHERE month(OrderDate) = 6