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--CIS310-01
--A8
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--1

SELECT ITEMID, DESCRIPTION, LISTPRICE
FROM CIS310A8..Merchandise
WHERE LISTPRICE > (SELECT AVG(LISTPRICE) FROM CIS310A8..MERCHANDISE)
ORDER BY LISTPRICE

--2
CREATE VIEW AVG_COST AS
SELECT ITEMID, AVG(COST) [AVG COST]
FROM CIS310A8..OrderItem
GROUP BY ITEMID

CREATE VIEW AVG_SALE_PRICE AS
SELECT ITEMID, AVG(SALEPRICE) [AVG SALE PRICE]
FROM CIS310A8..SALEITEM
GROUP BY ITEMID

SELECT M.ItemID, [AVG COST], [AVG SALE PRICE]
FROM AVG_COST AC INNER JOIN CIS310A8..Merchandise M ON AC.ITEMID = M.ITEMID
INNER JOIN AVG_SALE_PRICE ASP ON M.ITEMID = ASP.ITEMID
WHERE [AVG SALE PRICE] > 1.5*[AVG COST]

--3
USE CIS310A8
SELECT E.EmployeeID, LASTNAME,
CAST((SUM(SALEPRICE*QUANTITY)) AS DECIMAL(10,2)) [TOTAL
SALES], CAST((SUM(SALEPRICE*QUANTITY)*100)/(SELECT(SUM(SALEPRICE*QUANTITY))
FROM SaleItem) AS DECIMAL(10,2)) [PERCENT OF SALES]
FROM Employee E INNER JOIN SALE S ON E.EMPLOYEEID = S.EMPLOYEEID
INNER JOIN SaleItem SI ON S.SaleID = SI.SALEID
GROUP BY E.EmployeeId, LASTNAME
ORDER BY [PERCENT OF SALES]

--4
CREATE VIEW AVG_SHIP_COST AS
SELECT SID.SupplierID, NAME, CAST((AVG((MO.SHIPPINGCOST)/(OI.COST*OI.QUANTITY))) AS
DECIMAL(10,2)) [PCT SHIP COST]
FROM CIS310A8..Supplier SID INNER JOIN CIS310A8..MerchandiseOrder MO ON SID.SupplierID =
MO.SupplierID
INNER JOIN CIS310A8..OrderItem OI ON MO.PONUMBER = OI.PONUMBER
GROUP BY SID.SupplierID, NAME

SELECT SID.SUPPLIERID, SID.NAME, [PCT SHIP COST]
FROM AVG_SHIP_COST AC INNER JOIN CIS310A8..SUPPLIER SID ON AC.SUPPLIERID = SID.SUPPLIERID
WHERE [PCT SHIP COST] = (SELECT MAX([PCT SHIP COST]) FROM AVG_SHIP_COST)

--5
USE CIS310A8
SELECT TOP 1 C.CUSTOMERID, C.LASTNAME, C.FIRSTNAME, (SUM(SI.QUANTITY*SI.SALEPRICE)) [MERC
TOTAL],
(SUM(SA.SALEPRICE)) [ANIMAL TOTAL],

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        ((SUM(SI.QUANTITY*SI.SALEPRICE))+(SUM(SA.SALEPRICE))) [GRAND TOTAL]
FROM CUSTOMER C INNER JOIN SALE S ON C.CUSTOMERID = S.CUSTOMERID
    INNER JOIN SALEITEM SI ON S.SALEID = SI.SALEID
    INNER JOIN SALEANIMAL SA ON SI.SALEID = SA.SALEID
GROUP BY C.CUSTOMERID, LASTNAME, FIRSTNAME
ORDER BY [MERC TOTAL] DESC

--6
CREATE VIEW MAY_SOLD_CUSTOMER AS
SELECT C.CUSTOMERID, C.LASTNAME, C.FIRSTNAME, (SUM(SI.QUANTITY*SI.SALEPRICE)) [MAY TOTAL]
FROM CIS310A8..CUSTOMER C INNER JOIN CIS310A8..SALE S ON C.CUSTOMERID = S.CUSTOMERID
    INNER JOIN CIS310A8..SALEITEM SI ON S.SALEID = SI.SALEID
WHERE (S.SALEDATE BETWEEN '5/1/2004' AND '5/31/2004')
GROUP BY C.CUSTOMERID, C.LASTNAME, C.FIRSTNAME

CREATE VIEW OCT_SOLD_CUSTOMER AS
SELECT C.CUSTOMERID, C.LASTNAME, C.FIRSTNAME, (SUM(SI.QUANTITY*SI.SALEPRICE)) [OCT TOTAL]
FROM CIS310A8..CUSTOMER C INNER JOIN CIS310A8..SALE S ON C.CUSTOMERID = S.CUSTOMERID
    INNER JOIN CIS310A8..SALEITEM SI ON S.SALEID = SI.SALEID
WHERE (S.SALEDATE BETWEEN '10/1/2004' AND '10/31/2004')
GROUP BY C.CUSTOMERID, C.LASTNAME, C.FIRSTNAME

SELECT MC.CUSTOMERID, MC.LASTNAME, MC.FIRSTNAME, [MAY TOTAL]
FROM MAY_SOLD_CUSTOMER MC INNER JOIN OCT_SOLD_CUSTOMER OC ON MC.CUSTOMERID =
OC.CUSTOMERID
WHERE [MAY TOTAL] > 100 AND
    ([OCT TOTAL]) > 50

--7
USE CIS310A8
SELECT M.DESCRPTION, M.ITEMID, (SUM(SI.QUANTITY)) [PURCHASED], (SUM(OI.QUANTITY))
[SOLD],
    (SUM(OI.QUANTITY)) - (SUM(SI.QUANTITY)) [NET INCREASE]
FROM MERCHANDISEORDER MO INNER JOIN ORDERITEM OI ON MO.PONUMBER = OI.PONUMBER
    INNER JOIN MERCHANDISE M ON OI.ITEMID = M.ITEMID
    INNER JOIN SALEITEM SI ON M.ITEMID = SI.ITEMID
WHERE M.DESCRPTION = 'DOG FOOD-CAN-PREMIUM' AND MO.ORDERDATE
    BETWEEN '1/1/2004' AND '7/1/2004'
GROUP BY M.DESCRPTION, M.ITEMID

--8
USE CIS310A8
SELECT M.ITEMID, M.DESCRPTION, M.LISTPRICE
FROM MERCHANDISE M INNER JOIN SALEITEM SI ON M.ITEMID = SI.ITEMID
    INNER JOIN SALE S ON SI.SALEID = S.SALEID
WHERE M.LISTPRICE > 50 AND (S.SALEDATE NOT BETWEEN '7/1/2004' AND '7/31/2004')
GROUP BY M.ITEMID, M.DESCRPTION, M.LISTPRICE

--9
USE CIS310A8
SELECT M.ITEMID, DESCRIPTION, QUANTITYONHAND, OI.ITEMID
FROM MERCHANDISEORDER MO FULL OUTER JOIN ORDERITEM OI ON MO.PONUMBER = OI.PONUMBER
    FULL OUTER JOIN MERCHANDISE M ON OI.ITEMID = M.ITEMID
WHERE QUANTITYONHAND > 100 AND MO.ORDERDATE IS NULL
GROUP BY M.ITEMID, DESCRIPTION, QUANTITYONHAND, OI.ITEMID

--10
USE CIS310A8

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SELECT M.ITEMID, DESCRIPTION, QUANTITYONHAND, OI.ITEMID
FROM MERCHANDISEORDER MO FULL OUTER JOIN ORDERITEM OI ON MO.PONUMBER = OI.PONUMBER
      FULL OUTER JOIN MERCHANDISE M ON OI.ITEMID = M.ITEMID
WHERE (QUANTITYONHAND > 100) AND M.ITEMID NOT IN
      (SELECT ITEMID FROM CIS310A8..MERCHANDISE WHERE ORDERDATE != '2004')

--11
CREATE TABLE CUSTOMER_SALES_CATEGORY
(
    Category VARCHAR(15) NOT NULL,
    Low INT,
    High INT
)

ALTER TABLE CUSTOMER_SALES_CATEGORY
ADD CONSTRAINT PK_CUSTOMER_SALES_CATEGORY PRIMARY KEY(CATEGORY)

INSERT INTO CUSTOMER_SALES_CATEGORY (Category, Low, High)
VALUES ('Weak', 0, 200)

INSERT INTO CUSTOMER_SALES_CATEGORY (Category, Low, High)
VALUES ('Good', 200, 800)

INSERT INTO CUSTOMER_SALES_CATEGORY (Category, Low, High)
VALUES ('Best', 800, 10000)

USE CIS310A8
SELECT C.CUSTOMERID, C.LASTNAME, C.FIRSTNAME, T.GRANDTOTAL, CSC.CATEGORY
FROM CUSTOMER C INNER JOIN
    (SELECT C.CUSTOMERID, ((SUM(SI.QUANTITY*SI.SALEPRICE))+SUM(SA.SALEPRICE))) AS
    GRANDTOTAL
    FROM CUSTOMER C INNER JOIN SALE S ON C.CUSTOMERID = S.CUSTOMERID
        INNER JOIN SALEITEM SI ON S.SALEID = SI.SALEID
        INNER JOIN SALEANIMAL SA ON SI.SALEID = SA.SALEID
    GROUP BY C.CUSTOMERID) T ON C.CUSTOMERID = T.CUSTOMERID
    INNER JOIN CIS31009..CUSTOMER_SALES_CATEGORY CSC ON T.GRANDTOTAL >= CSC.LOW AND
T.GRANDTOTAL <= CSC.HIGH
GROUP BY C.CUSTOMERID, C.LASTNAME, C.FIRSTNAME, T.GRANDTOTAL, CSC.CATEGORY

--12
USE CIS310A8
SELECT S.NAME [SUPPLIER NAME], 'ANIMAL' [ORDER TYPE]
FROM ANIMALORDER AO INNER JOIN SUPPLIER S ON AO.SUPPLIERID = S.SUPPLIERID
UNION
SELECT S.NAME [SUPPLIER NAME], 'MERCHANDISE' [ORDER TYPE]
FROM MERCHANDISEORDER MO INNER JOIN SUPPLIER S ON MO.SUPPLIERID = S.SUPPLIERID

--13
USE CIS31009
UPDATE CUSTOMER_SALES_CATEGORY
SET HIGH = 400
WHERE CATEGORY = 'BEST'

--14
USE CIS31009
DROP TABLE CUSTOMER_SALES_CATEGORY

--15

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DELETE TOP (1)
FROM CIS31009..CUSTOMER_SALES_CATEGORY
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--16
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USE CIS31009
SELECT *
INTO EMPLOYEECOPY
FROM CIS310A8..EMPLOYEE
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DELETE FROM EMPLOYEECOPY
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INSERT INTO EMPLOYEECOPY
SELECT *
FROM CIS310A8..EMPLOYEE
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