IS 475/675 - HW #8

1. Code

Update tblOrder

Set OrderDate = '1/15/2016' Where OrderID = '567123';

Update tblOrder

Set OrderDate = '2/10/2016' Where OrderID = '671100';

Update tblShipLine

Set MethodShipped = LOWER(MethodShipped);

Update tblCustomer

Set State = UPPER(State);

Delete From tblOrder

Where OrderID Not In (Select ol.OrderID

From tblOrderLine ol);

1. Output

No Ouput

2. Code

Create ViewvShipTotal As

Select OrderID,

ItemID,

SUM(QtyShipped) TotalShipped

From tblShipLine
Group By OrderID, ItemID;

Select ol.OrderID,

ord.OrderDate,

(cus.LastName + ', ' + SUBSTRING(cus.FirstName,1,1) + '.') CustomerName,

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ol.ItemID,
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ite.Description ItemDescription,

ol.Quantity QtyOrdered,

ISNULL(vst.TotalShipped, 0) TotalShipped,

(ol.Quantity - ISNULL(vst.TotalShipped, 0)) QtyRemaining,

Case

When ISNULL(vst.TotalShipped, 0) = 0 Then 'Not Shipped'

When (ol.Quantity - ISNULL(vst.TotalShipped, 0)) = 0 Then 'Completely Shipped'

When (ol.Quantity - ISNULL(vst.TotalShipped, 0)) < 0 Then 'Over Shipped'

When (ol.Quantity - ISNULL(vst.TotalShipped, 0)) > 0 Then 'Partially Shipped'

Else 'Unknown'

End ShippingStatus

From tblOrderLine ol

Left Outer Join vShipTotal vst

On ol.OrderID = vst.OrderID And ol.ItemID = vst.ItemID

Inner Join tblOrder ord

On ol.OrderID = ord.OrderID

Inner Join tblCustomer cus

On ord.CustomerID = cus.CustomerID

Inner Join tblltem ite

On ol.ItemID = ite.ItemID

Order By ol.OrderID, ol.ItemID;

	OrderID	OrderDate	CustomerName	ItemID	ItemDescription	QtyOrdered	TotalShipped	QtyRemaining	ShippingStatus
3	123000	2016-02-02 00:00:00.000	Barrington, M.	B67123	Tiny Epic Galaxies	5	5	0	Completely Shipped
4	200335	2016-01-26 00:00:00.000	Rodriguez, K.	A23441	New York City Monopoly Game Collector's Edition	1	6	-5	Over Shipped
5	200335	2016-01-26 00:00:00.000	Rodriguez, K.	A34665	Boggle Deluxe 5x5	1	0	1	Not Shipped
6	200335	2016-01-26 00:00:00.000	Rodriguez, K.	B67123	Tiny Epic Galaxies	1	0	1	Not Shipped
7	200335	2016-01-26 00:00:00.000	Rodriguez, K.	B67466	Diplomacy: Game of Negotiation, Cunning and Deceit. 1		1	0	Completely Shipped
8	223344	2016-02-09 00:00:00.000	Candriller, K.	A23441	New York City Monopoly Game Collector's Edition	55	28	27	Partially Shipped
9	223344	2016-02-09 00:00:00.000	Candriller, K.	A23771	Mysterium	15	45	-30	Over Shipped
10	223344	2016-02-09 00:00:00.000	Candriller, K.	A34665	Boggle Deluxe 5x5	100	110	-10	Over Shipped
11	223344	2016-02-09 00:00:00.000	Candriller, K.	A34882	Perudo	35	35	0	Completely Shipped
12	223344	2016-02-09 00:00:00.000	Candriller, K.	B67123	Tiny Epic Galaxies	25	25	0	Completely Shipped
13	223344	2016-02-09 00:00:00.000	Candriller, K.	B67466	Diplomacy: Game of Negotiation, Cunning and Deceit.	15	0	15	Not Shipped
14	300221	2016-01-26 00:00:00.000	Rodriguez, K.	A23771	Mysterium	1	1	0	Completely Shipped
15	300221	2016-01-26 00:00:00.000	Rodriguez, K.	A34665	Boggle Deluxe 5x5	1	1	0	Completely Shipped
16	300221	2016-01-26 00:00:00.000	Rodriguez, K.	A34882	Perudo	1	1	0	Completely Shipped
17	300221	2016-01-26 00:00:00.000	Rodriguez, K.	B67123	Tiny Epic Galaxies	1	1	0	Completely Shipped
18	300221	2016-01-26 00:00:00.000	Rodriguez, K.	B78244	Code Names	1	1	0	Completely Shipped
19	400001	2016-02-20 00:00:00.000	Jones, M.	C26133	Knowledge Management: Create a Learning Organiz	1	0	1	Not Shipped
20	445511	2016-02-15 00:00:00.000	Jones, M.	C34122	A Game of Strategy, Negotiation and Excitement for	3	3	0	Completely Shipped
21	450137	2015-12-29 00:00:00.000	Rodriguez, K.	A23771	Mysterium 16		0	16	Not Shipped
22	450137	2015-12-29 00:00:00.000	Rodriguez, K.	A34665	Boggle Deluxe 5x5	10	10	0	Completely Shipped
23	450137	2015-12-29 00:00:00.000	Rodriguez, K.	A34882	Perudo	50	15	35	Partially Shipped
24	450137	2015-12-29 00:00:00.000	Rodriguez, K.	B67123	Tiny Epic Galaxies	21	29	-8	Over Shipped
25	450137	2015-12-29 00:00:00.000	Rodriguez, K.	B67466	Diplomacy: Game of Negotiation, Cunning and Deceit.	9	9	0	Completely Shipped
26	450137	2015-12-29 00:00:00.000	Rodriguez, K.	C26133	Knowledge Management: Create a Learning Organiz	4	0	4	Not Shipped
27	450137	2015-12-29 00:00:00.000	Rodriguez, K.	C34122	A Game of Strategy, Negotiation and Excitement for	6	0	6	Not Shipped
28	567123	2016-01-15 00:00:00.000	Rodriguez, K.	C26133	Knowledge Management: Create a Learning Organiz	1	0	1	Not Shipped
29	651222	2016-01-29 00:00:00.000	Martinez, G.	A34665	Boggle Deluxe 5x5	5	5	0	Completely Shipped
30	651222	2016-01-29 00:00:00.000	Martinez, G.	A34882	Perudo	16	68	-52	Over Shipped
31	651222	2016-01-29 00:00:00.000	Martinez, G.	B78244	Code Names	21	21	0	Completely Shipped
32	671100	2016-02-10 00:00:00.000	Jones, M.	C29179	Managing Change: The Game for an Executive Retr	1	1	0	Completely Shipped
33	781206	2016-02-15 00:00:00.000	Argiento, B.	B67466	Diplomacy: Game of Negotiation, Cunning and Deceit.	1	4	-3	Over Shipped
34	781206	2016-02-15 00:00:00.000	Argiento, B.	C29179	Managing Change: The Game for an Executive Retr	2	0	2	Not Shipped
35	892211	2015-12-28 00:00:00.000	Dao, P.	C26133	Knowledge Management: Create a Learning Organiz	15	0	15	Not Shipped
36	892211	2015-12-28 00:00:00.000	Dao, P.	C29179	Managing Change: The Game for an Executive Retr	10	10	0	Completely Shipped
37	892211	2015-12-28 00:00:00.000	Dao, P.	C34122	A Game of Strategy, Negotiation and Excitement for	8	5	3	Partially Shipped
38	980001	2016-01-22 00:00:00.000	Guili, M.	C29179	Managing Change: The Game for an Executive Retr	3	3	0	Completely Shipped
39	980001	2016-01-22 00:00:00.000	Guili, M.	C34122	A Game of Strategy, Negotiation and Excitement for	2	2	0	Completely Shipped
40	983983	2016-02-19 00:00:00.000	Jones, M.	A23771	Mysterium	1	0	1	Not Shipped
41	983983	2016-02-19 00:00:00.000	Jones, M.	B78244	Code Names	18	0	18	Not Shipped

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3. Code
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```
ol.OrderID,
Select
                            ord.OrderDate,
                            (cus.LastName + ', ' + SUBSTRING(cus.FirstName,1,1) + '.') CustomerName,
                            ol.ItemID,
                            ite.Description ItemDescription,
                            ol.Quantity QtyOrdered,
                            ISNULL(vst.TotalShipped, 0) TotalShipped,
                            (ol.Quantity - ISNULL(vst.TotalShipped, 0)) QtyRemaining,
                            Case
                                    When ISNULL(vst.TotalShipped, 0) = 0 Then 'Not Shipped'
                                    When (ol.Quantity - ISNULL(vst.TotalShipped, 0)) = 0 Then 'Completely Shipped'
                                    When (ol.Quantity - ISNULL(vst.TotalShipped, 0)) < 0 Then 'Over Shipped'
                                    When (ol.Quantity - ISNULL(vst.TotalShipped, 0)) > 0 Then 'Partially Shipped'
                                    Else 'Unknown'
                            End ShippingStatus
From
                            tblOrderLine ol
Left Outer Join
                    vShipTotal vst
                            ol.OrderID = vst.OrderID And ol.ItemID = vst.ItemID
On
Inner Join
                    tblOrder ord
On
                            ol.OrderID = ord.OrderID
Inner Join
                    tblCustomer cus
On
                            ord.CustomerID = cus.CustomerID
Inner Join
                    tblltem ite
On
                            ol.ItemID = ite.ItemID
Where
                            (ol.Quantity - ISNULL(vst.TotalShipped, 0)) < 0
Order By
                    ol.OrderID, ol.ItemID;
```

	OrderID	OrderDate	CustomerName	ItemID	ItemDescription	QtyOrdered	TotalShipped	QtyRemaining	ShippingStatus
1	123000	2016-02-02 00:00:00.000	Barrington, M.	A34665	Boggle Deluxe 5x5	30	32	-2	Over Shipped
2	200335	2016-01-26 00:00:00.000	Rodriguez, K.	A23441	New York City Monopoly Game Collector's Edition	1	6	-5	Over Shipped
3	223344	2016-02-09 00:00:00.000	Candriller, K.	A23771	Mysterium	15	45	-30	Over Shipped
4	223344	2016-02-09 00:00:00.000	Candriller, K.	A34665	Boggle Deluxe 5x5	100	110	-10	Over Shipped
5	450137	2015-12-29 00:00:00.000	Rodriguez, K.	B67123	Tiny Epic Galaxies	21	29	-8	Over Shipped
6	651222	2016-01-29 00:00:00.000	Martinez, G.	A34882	Perudo	16	68	-52	Over Shipped
7	781206	2016-02-15 00:00:00.000	Argiento, B.	B67466	Diplomacy: Game of Negotiation, Cunning and Dec	1	4	-3	Over Shipped

Create ViewvTesting As

Select ol.OrderID,

Count(ol.ItemID) ItemCount

From tblOrderLine ol

Left Outer Join vShipTotal st

On ol.OrderID = st.OrderID and ol.ItemID = st.ItemID

Where ((ol.Quantity - ISNULL(st.TotalShipped, 0)) < 0) or ((ol.Quantity - ISNULL(st.TotalShipped, 0)) = 0)

Group By ol.OrderID

Create View vOpenOrder As

Select ol.OrderID,

Count(ol.ItemID) TotalItems,

vt.ItemCount

From tblOrderLine ol

Left Outer Join vTesting vt

On ol.OrderID = vt.OrderID

Group By ol.OrderID, vt.ItemCount

Having count(ol.ItemID) = vt.ItemCount

Select ol.OrderID,

CONVERT(varchar, o.OrderDate, 101) DateOrdered,

(cus.LastName + ', ' + substring(cus.FirstName, 1, 1) + '.') CustomerName,

ol.ItemID, it.Description,

ol.Quantity QuantityOrdered,

ISNULL(st.TotalShipped, 0) TotalShipped,

(ol.Quantity - ISNULL(st.TotalShipped, 0)) QuantityRemaining,

Case

When (ol.Quantity - ISNULL(st.TotalShipped, 0)) = 0 Then 'Completely Shipped'

When ISNULL(st.TotalShipped, 0) = 0 Then 'Not Shipped'

When (ol.Quantity - ISNULL(st.TotalShipped, 0)) < 0 Then 'Over Shipped' When (ol.Quantity - ISNULL(st.TotalShipped, 0)) > 0 Then 'Partially Shipped'

End ShippingStatus

From tblOrderLine ol

Inner Join tblOrder o

On ol.OrderID = o.OrderID

Inner Join tblCustomer cus

On o.CustomerID = cus.CustomerID

Inner Join tblltem it

On ol.ItemID = it.ItemID

Left Outer Join vShipTotal st

On ol.OrderID = st.OrderID and ol.ItemID = st.ItemID

Where ol.OrderID Not In (Select OrderID

From vOpenOrder)

Order By OrderDate;

	OrderID	DateOrdered	CustomerName	ItemID	Description	QuantityOrdered	TotalShipped	QuantityRemaining	ShippingStatus
1	892211	12/28/2015	Dao, P.	C26133	Knowledge Management: Create a Learning Organiza	15	0	15	Not Shipped
2	892211	12/28/2015	Dao, P.	C29179	Managing Change: The Game for an Executive Retreat	10	10	0	Completely Shipped
3	892211	12/28/2015	Dao, P.	C34122	A Game of Strategy, Negotiation and Excitement for	8	5	3	Partially Shipped
4	450137	12/29/2015	Rodriguez, K.	A23771	Mysterium	16	0	16	Not Shipped
5	450137	12/29/2015	Rodriguez, K.	A34665	Boggle Deluxe 5x5	10	10	0	Completely Shipped
6	450137	12/29/2015	Rodriguez, K.	A34882	Perudo	50	15	35	Partially Shipped
7	450137	12/29/2015	Rodriguez, K.	B67123	Tiny Epic Galaxies	21	29	-8	Over Shipped
8	450137	12/29/2015	Rodriguez, K.	B67466	Diplomacy: Game of Negotiation, Cunning and Deceit.	9	9	0	Completely Shipped
9	450137	12/29/2015	Rodriguez, K.	C26133	Knowledge Management: Create a Learning Organiza	4	0	4	Not Shipped
10	450137	12/29/2015	Rodriguez, K.	C34122	A Game of Strategy, Negotiation and Excitement for	6	0	6	Not Shipped
11	567123	01/15/2016	Rodriguez, K.	C26133	Knowledge Management: Create a Learning Organiza	1	0	1	Not Shipped
12	200335	01/26/2016	Rodriguez, K.	A23441	New York City Monopoly Game Collector's Edition	1	6	-5	Over Shipped
13	200335	01/26/2016	Rodriguez, K.	A34665	Boggle Deluxe 5x5	1	0	1	Not Shipped
14	200335	01/26/2016	Rodriguez, K.	B67123	Tiny Epic Galaxies	1	0	1	Not Shipped
15	200335	01/26/2016	Rodriguez, K.	B67466	Diplomacy: Game of Negotiation, Cunning and Deceit.	1	1	0	Completely Shipped
16	223344	02/09/2016	Candriller, K.	A23441	New York City Monopoly Game Collector's Edition	55	28	27	Partially Shipped
17	223344	02/09/2016	Candriller, K.	A23771	Mysterium	15	45	-30	Over Shipped
18	223344	02/09/2016	Candriller, K.	A34665	Boggle Deluxe 5x5	100	110	-10	Over Shipped
19	223344	02/09/2016	Candriller, K.	A34882	Perudo	35	35	0	Completely Shipped
20	223344	02/09/2016	Candriller, K.	B67123	Tiny Epic Galaxies	25	25	0	Completely Shipped
21	223344	02/09/2016	Candriller, K.	B67466	Diplomacy: Game of Negotiation, Cunning and Deceit.	15	0	15	Not Shipped
22	781206	02/15/2016	Argiento, B.	B67466	Diplomacy: Game of Negotiation, Cunning and Deceit.	1	4	-3	Over Shipped
23	781206	02/15/2016	Argiento, B.	C29179	Managing Change: The Game for an Executive Retreat	2	0	2	Not Shipped
24	983983	02/19/2016	Jones, M.	A23771	Mysterium	1	0	1	Not Shipped
25	983983	02/19/2016	Jones, M.	B78244	Code Names	18	0	18	Not Shipped
26	400001	02/20/2016	Jones, M.	C26133	Knowledge Management: Create a Learning Organiza	1	0	1	Not Shipped

Create View vTEG As

Select ol.OrderID,

ol.ItemID, ol.Price, i.Description

From tblOrderLine ol

Left Outer Join tblltem i

On ol.ItemID = i.ItemID

Where i.Description like 'Tiny Epic Galaxies';

Select (c.LastName + ', ' + c.FirstName) CustomerName,

ol.OrderID,

CONVERT(varchar, o.OrderDate, 107) OrderDate,

ol.ItemID,

i.Description ItemDescription,

ol.Price PricePaid,

ich.LastCost MostCurrentCost,

CONVERT(varchar, ich.LastCostDate, 107) LastCostDate, (ol.Price - ich.LastCost) DifferenceBetweenPriceandCost

From tblOrderLine ol

Left Outer Join tblOrder o

On ol.OrderID = o.OrderID

Left Outer Join tblCustomer c

On o.CustomerID = c.CustomerID

Left Outer Join tblltem i

On ol.ItemID = i.ItemID

Left Outer Join tblltemCostHistory ich

On i.ltemID = ich.ltemID

Where ol.Price = (Select MIN(Price)

From vTEG vInner)

and

ich.LastCostDate = (Select MAX(LastCostDate)

From tblltemCostHistory ichInner Where ich.ItemID = ichInner.ItemID)

5. Output

120	CustomerName	OrderID	OrderDate	ItemID	ItemDescription	PricePaid	MostCurrentCost	LastCostDate	DifferenceBetweenPriceandCost
1	Rodriguez, Karen	450137	Dec 29, 2015	B67123	Tiny Epic Galaxies	14.95	21.80	Feb 02, 2016	-6.85

6. Code

Create View vPPI As

Select ol.OrderID,

ol.ItemID,

ol.Price ItemPrice,

ich.LastCost LastCostPaid,

 $(ol. Price - ich. Last Cost) \ Difference Between Price and Cost, \\$

ol.Quantity * (ol.Price - ich.LastCost) ExtendedDifference

From tblOrderLine ol

Left Outer Join tblltem i

On ol.ItemID = i.ItemID

Left Outer Join tblltemCostHistory ich

On i.ltemID = ich.ltemID

Where ich.LastCostDate = (Select MAX(LastCostDate)

From tblltemCostHistory ichInner Where ich.ItemID = ichInner.ItemID)

Create View vMPI As

Select v.OrderID,

v.ExtendedDifference

From vPPI v

Where v.ExtendedDifference = (Select MAX(ExtendedDifference)

From vPPI vInner)

Select ol.OrderID,

CONVERT(varchar, o.OrderDate, 107) OrderDate, (c.FirstName + ' ' + c.LastName) CustomerName,

ol.ItemID.

i.Description ItemDescription,ol.Quantity QtyOrdered,

vPPI.ItemPrice, vPPI.LastCostPaid,

vPPI.DifferenceBetweenPriceandCost,

vPPI.ExtendedDifference

From tblOrderLine ol

Left Outer Join tblOrder o

On ol.OrderID = o.OrderID

Left Outer Join tblCustomer c

On o.CustomerID = c.CustomerID

Left Outer Join tblltem i

On ol.ItemID = i.ItemID

Left Outer Join vPPI

On ol.OrderID = vPPI.OrderID and ol.ItemID = vPPI.ItemID

Where ol.OrderID = (Select OrderID

From vMPI)

6. Output

	OrderID	OrderDate	CustomerName	ItemID	ItemDescription	QtyOrdered	ItemPrice	LastCostPaid	DifferenceBetweenPriceandCost	ExtendedDifference
1	892211	Dec 28, 2015	Phong Dao	C26133	Knowledge Management: Create a Learning Organiza	15	380.00	212.25	167.75	2516.25
2	892211	Dec 28, 2015	Phong Dao	C29179	Managing Change: The Game for an Executive Retreat	10	259.95	158.85	101.10	1011.00
3	892211	Dec 28, 2015	Phong Dao	C34122	A Game of Strategy, Negotiation and Excitement for	8	200.00	58.50	141.50	1132.00

7. Code

Create View vTIO As

Select c.CustomerID,

SUM(ol.Quantity) TotalItemsOrdered

From tblOrderLine ol

Left Outer Join tblOrder o

On ol.OrderID = o.OrderID

Left Outer Join tblCustomer c

On o.CustomerID = c.CustomerID

Group By c.CustomerID

Create View vMIO As

Select v.CustomerID,

v.TotalItemsOrdered

From vTIO v

Where v.TotalItemsOrdered = (Select MAX(TotalItemsOrdered)

From vTIO vInner)

Select (c.LastName + ', ' + c.FirstName) 'Customer Name',

'(' + SUBSTRING(c.Phone,1,3) + ') ' + SUBSTRING(c.Phone,4,3) + '-' + SUBSTRING(c.Phone,7,4) 'Customer Telephone

Number',

vMIO.TotalItemsOrdered 'Total Number of Items Ordered'

From tblCustomer c

Left Outer Join vMIO

On c.CustomerID = vMIO.CustomerID

Where c.CustomerID = (Select CustomerID

From vMIO)

7. Output

	Customer Name	Customer Telephone Number	Total Number of Items Ordered
1	Candriller, Kathy	(619) 881-3929	245

8. Code

Create View vCIN As

Select ol.ItemID,

SUM(ol.Quantity) TotalQtyOrdered

From tblOrderLine ol

Left Outer Join tblOrder o

On ol.OrderID = o.OrderID

Left Outer Join tblCustomer c

On o.CustomerID = c.CustomerID

Where c.State like 'NV'

Group By ol.ItemID;

Create View vMQO As

Select v.ItemID,

v.TotalQtyOrdered,

ich.LastCost,

CONVERT(varchar, ich.LastCostDate, 107) LastCostDate

From vCIN v

Left Outer Join tblltem i

On v.ltemID = i.ltemID

Left Outer Join tblltemCostHistory ich

On i.ltemID = ich.ltemID

Where v.TotalQtyOrdered = (Select MAX(TotalQtyOrdered)

From vCIN vInner)

and

ich.LastCostDate = (Select MAX(LastCostDate)

From tblltemCostHistory ichInner
Where ich.ItemID = ichInner.ItemID)

Select i.ltemID,

i.Description ItemDescription, vMQO.TotalQtyOrdered,

vMQO.LastCost, vMQO.LastCostDate

From tblltem i

Left Outer Join vMQO

On i.ltemID = vMQO.ltemID

Where i.ltemID = (Select ItemID

From vMQO)

8. Output

	ItemID	ItemDescription	TotalQtyOrdered	LastCost	LastCostDate
1	B78244	Code Names	39	14.50	Jul 15, 2015

9. Code

Create View vIOL As

Select ol.ItemID,

SUM(ol.Quantity) TotalQtyOnOrder, COUNT(ol.OrderID) NumberOfOrders, MAX(ol.Price) MostExpensivePrice, MIN(ol.Price) LeastExpensivePrice,

AVG(ol.Price) AveragePrice

From tblOrderLine ol

Group By ol.ItemID;

Create View vILC As

Select ich.ItemID,

MAX(ich.LastCost) MostExpensiveCost, MIN(ich.LastCost) LeastExpensiveCost,

AVG(ich.LastCost) AverageCost, MAX(ich.LastCostDate) LastCostDate

From tblltemCostHistory ich

Group By ich.ItemID;

Select i.ltemID,

i.Description ItemDescription,

it.CategoryDescription,

ISNULL(vIOL.TotalQtyOnOrder, 0) TotalQtyOnOrder, ISNULL(vIOL.NumberOfOrders, 0) NumberOfOrders,

ISNULL(vIOL.MostExpensivePrice, 0) MostExpensivePrice, ISNULL(vIOL.LeastExpensivePrice, 0) LeastExpensivePrice,

ISNULL(vIOL.AveragePrice, 0) AveragePrice,

ISNULL(vILC.MostExpensiveCost, 0) MostExpensiveCost, ISNULL(vILC.LeastExpensiveCost, 0) LeastExpensiveCost,

ISNULL(vILC.AverageCost, 0) AverageCost,

ISNULL(CONVERT(varchar, vILC.LastCostDate, 107), 'No Previous Purchase') LastCostDate,

ISNULL((Select ich.LastCost

From tblltemCostHistory ich

Where ich.LastCostDate = vILC.LastCostDate and ich.ItemID = vILC.itemID), 0) MostCurrentCost

From tblltem i

Left Outer Join tblltemType it

On i.TypeID = it.TypeID

Left Outer Join vIOL

On i.ltemID = vIOL.ltemID

Left Outer Join vILC

On i.ltemID = vILC.ltemID

	ItemID	ItemDescription	CategoryDescription	TotalQtyOnOrder	NumberOfOrders	MostExpensivePrice	LeastExpensivePrice	AveragePrice	MostExpensiveCost	LeastExpensiveCost	AverageCost	LastCostDate	MostCurrentCos
1	A23441	New York City Monopoly Game Collector's Edition	Classic Board Games	64	3	29.95	29.95	29.95	12.50	10.25	10.9383	Feb 02, 2016	12.50
2	A23771	Mysterium	Science Fiction and Fantasy	33	4	145.99	122.99	135.24	8.50	8.50	8.50	Jul 23, 2013	8.50
3	A34665	Boggle Deluxe 5x5	Classic Board Games	147	6	37.95	23.95	33.625	15.00	14.35	14.6166	Dec 28, 2015	14.35
4	A34882	Perudo	Classic Board Games	102	4	11.95	7.95	10.20	12.50	6.50	9.50	Feb 05, 2016	12.50
5	A45111	How to Host a Murder - An Affair to Dismember	Mystery and Thrillers	0	0	0.00	0.00	0.00	0.00	0.00	0.00	No Previous Purchase	0.00
6	B67123	Tiny Epic Galaxies	Science Fiction and Fantasy	53	5	389.99	14.95	103.974	21.80	14.50	17.40	Feb 02, 2016	21.80
7	B67466	Diplomacy: Game of Negotiation, Cunning and Deceit.	Office and Team Building	26	4	43.95	40.95	42.70	31.00	22.50	27.4666	Sep 12, 2015	31.00
8	B78244	Code Names	Mystery and Thrillers	40	3	19.95	17.99	18.9633	14.50	14.50	14.50	Jul 15, 2015	14.50
9	B78500	Pandemic Legacy	Science Fiction and Fantasy	0	0	0.00	0.00	0.00	22.35	18.00	20.075	Feb 10, 2016	22.35
10	C26133	Knowledge Management: Create a Learning Organiza	Office and Team Building	21	4	398.95	380.00	392.7125	225.00	200.00	213.0625	Feb 15, 2016	212.25
11	C29179	Managing Change: The Game for an Executive Retreat	Office and Team Building	16	4	280.00	259.95	268.9725	160.00	158.85	159.425	Jan 17, 2016	158.85
12	C34122	A Game of Strategy, Negotiation and Excitement for	Office and Team Building	19	4	269.95	167.95	201.9625	58.50	45.00	50.625	Feb 02, 2016	58.50

Create View vOSL As

Select sl.OrderID,

MIN(DateShipped) FirstDateShipped, MAX(DateShipped) LastDateShipped

From tblShipLine sl

Where sl.OrderID In (Select OrderID

From vOpenOrder)

Group By sl.OrderID;

Select v.OrderID,

CONVERT(varchar, o.OrderDate, 107) OrderDate,

o.CustomerID,

(c.LastName + ', ' + substring(c.FirstName, 1, 1) + '.') CustomerName,

ISNULL(o.PrimaryOrderID, 'N/A') PrimaryOrderID,

ISNULL((Select CONVERT(varchar, olnner.OrderDate, 107)

From tblOrder olnner

Where olnner.OrderID = o.PrimaryOrderID), 'No Primary Order') PrimaryOrderDate,

CONVERT(varchar, vOSL.FirstDateShipped, 107) FirstDateShipped, CONVERT(varchar, vOSL.LastDateShipped, 107) LastDateShipped

From vOpenOrder v

Left Outer Join tblOrder o

On v.OrderID = o.OrderID

Left Outer Join tblCustomer c

On o.CustomerID = c.CustomerID

Left Outer Join vOSL

On v.OrderID = vOSL.OrderID;

	OrderID	OrderDate	CustomerID	CustomerName	PrimaryOrderID	PrimaryOrderDate	FirstDateShipped	LastDateShipped
1	123000	Feb 02, 2016	00405	Barrington, M.	N/A	No Primary Order	Feb 15, 2016	Feb 25, 2016
2	300221	Jan 26, 2016	07831	Rodriguez, K.	567123	Jan 15, 2016	Feb 05, 2016	Feb 20, 2016
3	445511	Feb 15, 2016	32018	Jones, M.	N/A	No Primary Order	Feb 16, 2016	Feb 16, 2016
4	651222	Jan 29, 2016	12006	Martinez, G.	N/A	No Primary Order	Feb 22, 2016	Mar 19, 2016
5	671100	Feb 10, 2016	32018	Jones, M.	N/A	No Primary Order	Feb 25, 2016	Feb 25, 2016
6	980001	Jan 22, 2016	78112	Guili, M.	N/A	No Primary Order	Feb 05, 2016	Feb 06, 2016

Create View vQLS As

Select ol.ItemID,

SUM((ol.Quantity - ISNULL(vst.TotalShipped, 0))) QtyRemaining

From tblOrderLine ol

Left Outer Join vShipTotal vst

On ol.OrderID = vst.OrderID and ol.ItemID = vst.ItemID

Group By ol.ItemID

Select i.ItemID,

i.Description ItemDescription,

vQLS.QtyRemaining 'Total Left To Ship',

SUM(ISNULL(il.QtyOnHand, 0)) 'Total Available in Inventory',

(vQLS.QtyRemaining - SUM(ISNULL(il.QtyOnHand, 0))) QtyRemaining

From tblltem i

Left Outer Join tblltemLocation il

On i.ltemID = il.ltemID

Left Outer Join tblOrderLine ol

On i.ltemID = ol.ltemID

Left Outer Join vShipTotal vst

On i.ltemID = vst.ltemID

Left Outer Join vQLS

On i.ltemID = vQLS.ltemID

Group By i.ItemID, i.Description, vQLS.QtyRemaining

11. Output

Unable to obtain correct result table.