IS 475/675 - HW #7

1. Code

Select CONVERT(varchar, ord.OrderDate, 101) OrderDate,

ord.OrderID OrderNumber,

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

'(' + SUBSTRING(cus.Phone,1,3) + ') ' + SUBSTRING(cus.Phone,4,3) + '-' + SUBSTRING(cus.Phone,7,4) PhoneNumber

From tblOrder ord Inner Join tblCustomer cus

On ord.CustomerID = cus.CustomerID

Where YEAR(ord.OrderDate) = YEAR(GETDATE()) and (MONTH(ord.OrderDate) = 1)

Order By ord.OrderDate Desc;

1. Output

	OrderDate	OrderNumber	CustomerName	PhoneNumber
1	01/29/2016	651222	Martinez, G.	(775) 883-7612
2	01/26/2016	200335	Rodriguez, K.	(819) 382-1828
3	01/26/2016	300221	Rodriguez, K.	(819) 382-1828
4	01/26/2016	567123	Rodriguez, K.	(819) 382-1828
5	01/22/2016	980001	Guili, M.	(619) 562-1334

2. Code

Select CONVERT(varchar, ord.OrderDate, 101) OrderDate,

ord.OrderID OrderNumber,

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

ISNULL(ord.ShipAddress, cus.Address) ShippingAddress,

ISNULL(ord.ShipZip, cus.Zip) ShippingCode,

ISNULL(ord.ShipCountry, ISNULL(cus.Country, 'Unknown')) ShippingCountry,

dbo.FormatPhoneBasedOnCountry(ord.ShipCountry, ord.ShipPhone, cus.Country, cus.Phone) PhoneNumber

From tblOrder ord Inner Join tblCustomer cus

On ord.CustomerID = cus.CustomerID

Where YEAR(ord.OrderDate) = YEAR(GETDATE()) and (MONTH(ord.OrderDate) = 1)

	OrderDate	OrderNumber	CustomerName	ShippingAddress	ShippingCode	ShippingCountry	PhoneNumber
1	01/29/2016	651222	Martinez, G.	223 North Pinetree Drive	89511	Unknown	(775) 883-7612
2	01/26/2016	200335	Rodriguez, K.	Arch 162 Stamford Brook	W6 0SE	UK	441817417500
3	01/26/2016	300221	Rodriguez, K.	251 Western Avenue Suite 1a	8776	USA	(210) 900-3005
4	01/26/2016	567123	Rodriguez, K.	2276 Brentell Street Suite 201	92128	USA	(858) 344-0669
5	01/22/2016	980001	Guili, M.	4457 Meridith St	97128	Unknown	(619) 562-1334

3. Code

Select CONVERT(varchar, ord.OrderDate, 101) OrderDate,

ord.OrderID OrderNumber,

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

ISNULL(ord.ShipAddress, cus.Address) ShippingAddress,

ISNULL(ord.ShipZip, cus.Zip) ShippingCode,

ISNULL(ord.ShipCountry, ISNULL(cus.Country, 'Unknown')) ShippingCountry,

dbo.FormatPhoneBasedOnCountry(ord.ShipCountry, ord.ShipPhone, cus.Country, cus.Phone) PhoneNumber,

ol.ItemID ItemID, ol.Quantity Quantity,

ol.Price Price,

(ol.Quantity * ol.Price) ExtendedPrice

From tblOrder ord Inner Join tblCustomer cus

On ord.CustomerID = cus.CustomerID

Inner Join tblOrderLine ol

On ord.OrderID = ol.OrderID

Where YEAR(ord.OrderDate) = YEAR(GETDATE()) and (MONTH(ord.OrderDate) = 1)

100	OrderDate	OrderNumber	CustomerName	ShippingAddress	ShippingCode	ShippingCountry	PhoneNumber	ItemID	Quantitiy	Price	ExtendedPrice
1	01/29/2016	651222	Martinez, G.	223 North Pinetree Drive	89511	Unknown	(775) 883-7612	A34665	5	37.95	189.75
2	01/29/2016	651222	Martinez, G.	223 North Pinetree Drive	89511	Unknown	(775) 883-7612	A34882	16	11.95	191.20
3	01/29/2016	651222	Martinez, G.	223 North Pinetree Drive	89511	Unknown	(775) 883-7612	B78244	21	17.99	377.79
4	01/26/2016	200335	Rodriguez, K.	Arch 162 Stamford Brook	W6 0SE	UK	441817417500	A23441	1	29.95	29.95
5	01/26/2016	200335	Rodriguez, K.	Arch 162 Stamford Brook	W6 0SE	UK	441817417500	A34665	1	34.95	34.95
6	01/26/2016	200335	Rodriguez, K.	Arch 162 Stamford Brook	W6 0SE	UK	441817417500	B67123	1	39.99	39.99
7	01/26/2016	200335	Rodriguez, K.	Arch 162 Stamford Brook	W6 0SE	UK	441817417500	B67466	1	43.95	43.95
8	01/26/2016	300221	Rodriguez, K.	251 Western Avenue Suite 1a	8776	USA	(210) 900-3005	A23771	1	145.99	145.99
9	01/26/2016	300221	Rodriguez, K.	251 Western Avenue Suite 1a	8776	USA	(210) 900-3005	A34665	1	35.95	35.95
10	01/26/2016	300221	Rodriguez, K.	251 Western Avenue Suite 1a	8776	USA	(210) 900-3005	A34882	1	10.95	10.95
11	01/26/2016	300221	Rodriguez, K.	251 Western Avenue Suite 1a	8776	USA	(210) 900-3005	B67123	1	39.99	39.99
12	01/26/2016	300221	Rodriguez, K.	251 Western Avenue Suite 1a	8776	USA	(210) 900-3005	B78244	1	19.95	19.95
13	01/26/2016	567123	Rodriguez, K.	2276 Brentell Street Suite 201	92128	USA	(858) 344-0669	C26133	1	395.95	395.95
14	01/22/2016	980001	Guili, M.	4457 Meridith St	97128	Unknown	(619) 562-1334	C29179	3	275.99	827.97
15	01/22/2016	980001	Guili, M.	4457 Meridith St	97128	Unknown	(619) 562-1334	C34122	2	169.95	339.90

Select CONVERT(varchar, ord.OrderDate, 101) OrderDate,

ord.OrderID OrderNumber,

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

ISNULL(ord.ShipAddress, cus.Address) ShippingAddress,

ISNULL(ord.ShipZip, cus.Zip) ShippingCode,

ISNULL(ord.ShipCountry, ISNULL(cus.Country, 'Unknown')) ShippingCountry,

dbo.FormatPhoneBasedOnCountry(ord.ShipCountry, ord.ShipPhone, cus.Country, cus.Phone) PhoneNumber,

ol.ItemID ItemID,

ite.Description Description,

ol.Quantity Quantitiy,

ol.Price Price,

(ol.Quantity * ol.Price) ExtendedPrice

From tblOrder ord Inner Join tblCustomer cus

On ord.CustomerID = cus.CustomerID

Inner Join tblOrderLine ol

On ord.OrderID = ol.OrderID

Inner Join tblltem ite

On ol.ItemID = ite.ItemID

Where YEAR(ord.OrderDate) = YEAR(GETDATE()) and (MONTH(ord.OrderDate) = 1)

Orderl	rDate	OrderNumber	CustomerName	ShippingAddress	ShippingCode	ShippingCountry	PhoneNumber	ItemID	Description	Quantitiy	Price	ExtendedPrice
1 01/29	29/2016	651222	Martinez, G.	223 North Pinetree Drive	89511	Unknown	(775) 883-7612	A34665	Boggle Deluxe 5x5	5	37.95	189.75
2 01/29	29/2016	651222	Martinez, G.	223 North Pinetree Drive	89511	Unknown	(775) 883-7612	A34882	Perudo	16	11.95	191.20
3 01/29	29/2016	651222	Martinez, G.	223 North Pinetree Drive	89511	Unknown	(775) 883-7612	B78244	Code Names	21	17.99	377.79
4 01/26	26/2016	200335	Rodriguez, K.	Arch 162 Stamford Brook	W6 0SE	UK	441817417500	A23441	New York City Monopoly Game Collector's Edition	1	29.95	29.95
5 01/26	26/2016	200335	Rodriguez, K.	Arch 162 Stamford Brook	W6 0SE	UK	441817417500	A34665	Boggle Deluxe 5x5	1	34.95	34.95
6 01/26	26/2016	200335	Rodriguez, K.	Arch 162 Stamford Brook	W6 0SE	UK	441817417500	B67123	Tiny Epic Galaxies	1	39.99	39.99
7 01/26	26/2016	200335	Rodriguez, K.	Arch 162 Stamford Brook	W6 0SE	UK	441817417500	B67466	Diplomacy: Game of Negotiation, Cunning and Deceit.	1	43.95	43.95
8 01/26	26/2016	300221	Rodriguez, K.	251 Western Avenue Suite 1a	8776	USA	(210) 900-3005	A23771	Mysterium	1	145.99	145.99
9 01/26	26/2016	300221	Rodriguez, K.	251 Western Avenue Suite 1a	8776	USA	(210) 900-3005	A34665	Boggle Deluxe 5x5	1	35.95	35.95
10 01/26	26/2016	300221	Rodriguez, K.	251 Western Avenue Suite 1a	8776	USA	(210) 900-3005	A34882	Perudo	1	10.95	10.95
11 01/26	26/2016	300221	Rodriguez, K.	251 Western Avenue Suite 1a	8776	USA	(210) 900-3005	B67123	Tiny Epic Galaxies	1	39.99	39.99
12 01/26	26/2016	300221	Rodriguez, K.	251 Western Avenue Suite 1a	8776	USA	(210) 900-3005	B78244	Code Names	1	19.95	19.95
13 01/26	26/2016	567123	Rodriguez, K.	2276 Brentell Street Suite 201	92128	USA	(858) 344-0669	C26133	Knowledge Management: Create a Learning Organiza	1	395.95	395.95
14 01/22	22/2016	980001	Guili, M.	4457 Meridith St	97128	Unknown	(619) 562-1334	C29179	Managing Change: The Game for an Executive Retreat	3	275.99	827.97
15 01/22	22/2016	980001	Guili, M.	4457 Meridith St	97128	Unknown	(619) 562-1334	C34122	A Game of Strategy, Negotiation and Excitement for	2	169.95	339.90

Select CONVERT(varchar, ord.OrderDate, 101) OrderDate,

ord.OrderID OrderNumber,

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

ISNULL(ord.ShipAddress, cus.Address) ShippingAddress,

ISNULL(ord.ShipZip, cus.Zip) ShippingCode,

ISNULL(ord.ShipCountry, ISNULL(cus.Country, 'Unknown')) ShippingCountry,

dbo.FormatPhoneBasedOnCountry(ord.ShipCountry, ord.ShipPhone, cus.Country, cus.Phone) PhoneNumber,

ol.ItemID ItemID,

ite.Description Description, it.CategoryDescription, ol.Quantity Quantitiy,

ol.Price Price,

(ol.Quantity * ol.Price) ExtendedPrice

From tblOrder ord Inner Join tblCustomer cus

On ord.CustomerID = cus.CustomerID

Inner Join tblOrderLine ol

On ord.OrderID = ol.OrderID

Inner Join tblltem ite

On ol.ItemID = ite.ItemID

Inner Join tblltemType it

On ite.TypeID = it.TypeID

Where YEAR(ord.OrderDate) = YEAR(GETDATE()) and (MONTH(ord.OrderDate) = 1)

	OrderDate	OrderNumber	CustomerName	ShippingAddress	ShippingCode	ShippingCountry	PhoneNumber	ItemID	Description	CategoryDescription	Quantitiy	Price	ExtendedPrice
1	01/29/2016	651222	Martinez, G.	223 North Pinetree Drive	89511	Unknown	(775) 883-7612	A34665	Boggle Deluxe 5x5	Classic Board Games	5	37.95	189.75
2	01/29/2016	651222	Martinez, G.	223 North Pinetree Drive	89511	Unknown	(775) 883-7612	A34882	Perudo	Classic Board Games	16	11.95	191.20
3	01/29/2016	651222	Martinez, G.	223 North Pinetree Drive	89511	Unknown	(775) 883-7612	B78244	Code Names	Mystery and Thrillers	21	17.99	377.79
4	01/26/2016	200335	Rodriguez, K.	Arch 162 Stamford Brook	W6 0SE	UK	441817417500	A23441	New York City Monopoly Game Collector's Edition	Classic Board Games	1	29.95	29.95
5	01/26/2016	200335	Rodriguez, K.	Arch 162 Stamford Brook	W6 0SE	UK	441817417500	A34665	Boggle Deluxe 5x5	Classic Board Games	1	34.95	34.95
6	01/26/2016	200335	Rodriguez, K.	Arch 162 Stamford Brook	W6 0SE	UK	441817417500	B67123	Tiny Epic Galaxies	Science Fiction and Fantasy	1	39.99	39.99
7	01/26/2016	200335	Rodriguez, K.	Arch 162 Stamford Brook	W6 0SE	UK	441817417500	B67466	Diplomacy: Game of Negotiation, Cunning and Deceit.	Office and Team Building	1	43.95	43.95
8	01/26/2016	300221	Rodriguez, K.	251 Western Avenue Suite 1a	8776	USA	(210) 900-3005	A23771	Mysterium	Science Fiction and Fantasy	1	145.99	145.99
9	01/26/2016	300221	Rodriguez, K.	251 Western Avenue Suite 1a	8776	USA	(210) 900-3005	A34665	Boggle Deluxe 5x5	Classic Board Games	1	35.95	35.95
10	01/26/2016	300221	Rodriguez, K.	251 Western Avenue Suite 1a	8776	USA	(210) 900-3005	A34882	Perudo	Classic Board Games	1	10.95	10.95
11	01/26/2016	300221	Rodriguez, K.	251 Western Avenue Suite 1a	8776	USA	(210) 900-3005	B67123	Tiny Epic Galaxies	Science Fiction and Fantasy	1	39.99	39.99
12	01/26/2016	300221	Rodriguez, K.	251 Western Avenue Suite 1a	8776	USA	(210) 900-3005	B78244	Code Names	Mystery and Thrillers	1	19.95	19.95
13	01/26/2016	567123	Rodriguez, K.	2276 Brentell Street Suite 201	92128	USA	(858) 344-0669	C26133	Knowledge Management: Create a Learning Organiza	Office and Team Building	1	395.95	395.95
14	01/22/2016	980001	Guili, M.	4457 Meridith St	97128	Unknown	(619) 562-1334	C29179	Managing Change: The Game for an Executive Retreat	Office and Team Building	3	275.99	827.97
15	01/22/2016	980001	Guili, M.	4457 Meridith St	97128	Unknown	(619) 562-1334	C34122	A Game of Strategy, Negotiation and Excitement for	Office and Team Building	2	169.95	339.90

6. Code

Select ol.ItemID 'Item ID',

ite.Description 'Item Desc',

SUM(ol.Quantity) 'Total Qty Sold', COUNT(ol.OrderID) 'Count of Orders',

MIN(ol.Price) 'Minimum Price', MAX(ol.Price) 'Maximum Price', AVG(ol.Price) 'Average Price'

From tblOrderLine ol

Inner Join tblltem ite

On ol.ItemID = ite.ItemID
Group By ol.ItemID, ite.Description

Order By ol.ItemID;

	Item ID	Item Desc	Total Qty Sold	Count of Orders	Minimum Price	Maximum Price	Average Price
1	A23441	New York City Monopoly Game Collector's Edition	64	3	29.95	29.95	29.95
2	A23771	Mysterium	33	4	122.99	145.99	135.24
3	A34665	Boggle Deluxe 5x5	147	6	23.95	37.95	33.625
4	A34882	Perudo	102	4	7.95	11.95	10.20
5	B67123	Tiny Epic Galaxies	53	5	14.95	389.99	103.974
6	B67466	Diplomacy: Game of Negotiation, Cunning and Deceit.	26	4	40.95	43.95	42.70
7	B78244	Code Names	40	3	17.99	19.95	18.9633
8	C26133	Knowledge Management: Create a Learning Organiza	21	4	380.00	398.95	392.7125
9	C29179	Managing Change: The Game for an Executive Retreat	16	4	259.95	280.00	268.9725
10	C34122	A Game of Strategy, Negotiation and Excitement for	19	4	167.95	269.95	201.9625

7. Code

Select ite.ItemID 'Item ID',

ite.Description 'Item Desc',

ISNULL(SUM(ol.Quantity), 0) 'Total Qty Sold',

COUNT(ol.OrderID) 'Count of Orders',
ISNULL(MIN(ol.Price), 0) 'Minimum Price',
ISNULL(MAX(ol.Price), 0) 'Maximum Price',
ISNULL (A) (C(ol. Price), 0) 'Maximum Price',

ISNULL(AVG(ol.Price), 0) 'Average Price'

From tblltem ite
Left Outer Join tblOrderLine ol

On ite.ltemID = ol.ltemID
Group By ite.ltemID, ite.Description

Order By ite.ItemID;

	Item ID	Item Desc	Total Qty Sold	Count of Orders	Minimum Price	Maximum Price	Average Price
1	A23441	New York City Monopoly Game Collector's Edition	64	3	29.95	29.95	29.95
2	A23771	Mysterium	33	4	122.99	145.99	135.24
3	A34665	Boggle Deluxe 5x5	147	6	23.95	37.95	33.625
4	A34882	Perudo	102	4	7.95	11.95	10.20
5	A45111	How to Host a Murder - An Affair to Dismember	0	0	0.00	0.00	0.00
6	B67123	Tiny Epic Galaxies	53	5	14.95	389.99	103.974
7	B67466	Diplomacy: Game of Negotiation, Cunning and Deceit.	26	4	40.95	43.95	42.70
8	B78244	Code Names	40	3	17.99	19.95	18.9633
9	B78500	Pandemic Legacy	0	0	0.00	0.00	0.00
10	C26133	Knowledge Management: Create a Learning Organiza	21	4	380.00	398.95	392.7125
11	C29179	Managing Change: The Game for an Executive Retreat	16	4	259.95	280.00	268.9725
12	C34122	A Game of Strategy, Negotiation and Excitement for	19	4	167.95	269.95	201.9625

8. Code

Select ite.ItemID ItemID,

ite.Description Description,

ISNULL(CONVERT(varchar, ich.LastCostDate, 107), 'No Date Recorded') 'Last Cost Date',

ISNULL(ich.LastCost, 0) 'Last Cost Paid'

From tblltem ite

Left Outer Join tblltemCostHistory ich
On ite.ItemID = ich.ItemID

Order By ite.ItemID Asc, ich.LastCostDate Desc;

	ItemID	Description	Last Cost Date	Last Cost Paid
1	A23441	New York City Monopoly Game Collector's Edition	Feb 02, 2016	12.50
2	A23441	New York City Monopoly Game Collector's Edition	Jan 05, 2016	10.35
3	A23441	New York City Monopoly Game Collector's Edition	Jul 07, 2015	11.15
4	A23441	New York City Monopoly Game Collector's Edition	Sep 23, 2014	10.88
5	A23441	New York City Monopoly Game Collector's Edition	May 12, 2013	10.50
6	A23441	New York City Monopoly Game Collector's Edition	Jan 06, 2013	10.25
7	A23771	Mysterium	Jul 23, 2013	8.50
8	A34665	Boggle Deluxe 5x5	Dec 28, 2015	14.35
9	A34665	Boggle Deluxe 5x5	Jul 15, 2015	14.50
10	A34665	Boggle Deluxe 5x5	Jan 12, 2015	15.00
11	A34882	Perudo	Feb 05, 2016	12.50
12	A34882	Perudo	Feb 19, 2014	6.50
13	A45111	How to Host a Murder - An Affair to Dismember	No Date Recorded	0.00
14	B67123	Tiny Epic Galaxies	Feb 02, 2016	21.80
15	B67123	Tiny Epic Galaxies	Jan 10, 2016	14.50
16	B67123	Tiny Epic Galaxies	Oct 21, 2015	18.80
17	B67123	Tiny Epic Galaxies	Aug 08, 2015	14.50
18	B67466	Diplomacy: Game of Negotiation, Cunning and Dec	Sep 12, 2015	31.00
19	B67466	Diplomacy: Game of Negotiation, Cunning and Dec	Jun 28, 2015	28.90
20	B67466	Diplomacy: Game of Negotiation, Cunning and Dec	Jul 07, 2014	22.50
21	B78244	Code Names	Jul 15, 2015	14.50
22	B78500	Pandemic Legacy	Feb 10, 2016	22.35
23	B78500	Pandemic Legacy	Nov 25, 2015	21.00
24	B78500	Pandemic Legacy	Jul 15, 2015	18.00
25	B78500	Pandemic Legacy	Mar 21, 2015	18.95
26	C26133	Knowledge Management: Create a Learning Organi	Feb 15, 2016	212.25
27	C26133	Knowledge Management: Create a Learning Organi	Sep 18, 2015	215.00
28	C26133	Knowledge Management: Create a Learning Organi	Jul 23, 2015	225.00
29	C26133	Knowledge Management: Create a Learning Organi	Jul 13, 2014	200.00
30	C29179	Managing Change: The Game for an Executive Ret	Jan 17, 2016	158.85
31	C29179	Managing Change: The Game for an Executive Ret	Aug 07, 2015	160.00
32	C34122	A Game of Strategy, Negotiation and Excitement for	Feb 02, 2016	58.50
33	C34122	A Game of Strategy, Negotiation and Excitement for	Feb 06, 2015	51.00
34	C34122	A Game of Strategy, Negotiation and Excitement for	Feb 06, 2014	48.00
35	C34122	A Game of Strategy, Negotiation and Excitement for	Feb 06, 2013	45.00

Select ite.ltemID ItemID,

ite.Description Description,

ISNULL(CONVERT(varchar, ich.LastCostDate, 107), 'No Date Recorded') 'Last Cost Date',

ISNULL(ich.LastCost, 0) 'Last Cost Paid'

From tblltem ite

Left Outer Join tblltemCostHistory ich On ite.ItemID = ich.ItemID

Where ich.LastCostDate = (Select MAX(LastCostDate)

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

Or LastCostDate IS NULL

Order By ite.ItemID Asc, ich.LastCostDate Desc;

	ItemID	Description	Last Cost Date	Last Cost Paid
1	A23441	New York City Monopoly Game Collector's Edition	Feb 02, 2016	12.50
2	A23771	Mysterium	Jul 23, 2013	8.50
3	A34665	Boggle Deluxe 5x5	Dec 28, 2015	14.35
4	A34882	Perudo	Feb 05, 2016	12.50
5	A45111	How to Host a Murder - An Affair to Dismember	No Date Recorded	0.00
6	B67123	Tiny Epic Galaxies	Feb 02, 2016	21.80
7	B67466	Diplomacy: Game of Negotiation, Cunning and Deceit.	Sep 12, 2015	31.00
8	B78244	Code Names	Jul 15, 2015	14.50
9	B78500	Pandemic Legacy	Feb 10, 2016	22.35
10	C26133	Knowledge Management: Create a Learning Organiza	Feb 15, 2016	212.25
11	C29179	Managing Change: The Game for an Executive Retreat	Jan 17, 2016	158.85
12	C34122	A Game of Strategy, Negotiation and Excitement for	Feb 02, 2016	58.50

Select ite.ItemID ItemID,

ite.Description Description,

ISNULL(CONVERT(varchar, ich.LastCostDate, 107), 'No Date Recorded') 'Last Cost Date',

(Select COUNT(ItemID)

From tblltemCostHistory ichInner

Where ich.ItemID = ichInner.ItemID) 'Count of Purchases',

ISNULL(ich.LastCost, 0) 'Last Cost Paid', ISNULL(ROUND((SelectAVG(LastCost)

From tblltemCostHistory ichInner

Where ich.ItemID = ichInner.ItemID), 2), 0) 'Average Last Cost'

From tblltem ite

Left Outer Join tblltemCostHistory ich
On ite.ItemID = ich.ItemID

Where ich.LastCostDate = (Select MAX(LastCostDate)

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

Or LastCostDate IS NULL

Group By ite.ItemID, ite.Description, ich.LastCostDate, ich.ItemID, ich.LastCost

Order By ite.ItemID Asc, ich.LastCostDate Desc;

	ItemID	Description	Last Cost Date	Count of Purchases	Last Cost Paid	Average Last Cost
1	A23441	New York City Monopoly Game Collector's Edition	Feb 02, 2016	6	12.50	10.94
2	A23771	Mysterium	Jul 23, 2013	1	8.50	8.50
3	A34665	Boggle Deluxe 5x5	Dec 28, 2015	3	14.35	14.62
4	A34882	Perudo	Feb 05, 2016	2	12.50	9.50
5	A45111	How to Host a Murder - An Affair to Dismember	No Date Recorded	0	0.00	0.00
6	B67123	Tiny Epic Galaxies	Feb 02, 2016	4	21.80	17.40
7	B67466	Diplomacy: Game of Negotiation, Cunning and Deceit.	Sep 12, 2015	3	31.00	27.47
8	B78244	Code Names	Jul 15, 2015	1	14.50	14.50
9	B78500	Pandemic Legacy	Feb 10, 2016	4	22.35	20.08
10	C26133	Knowledge Management: Create a Learning Organiza	Feb 15, 2016	4	212.25	213.06
11	C29179	Managing Change: The Game for an Executive Retreat	Jan 17, 2016	2	158.85	159.43
12	C34122	A Game of Strategy, Negotiation and Excitement for	Feb 02, 2016	4	58.50	50.63

11. Code

Select ol.OrderID,

ol.ItemID, ol.Price, ol.Quantity,

ISNULL((Select SUM(QtyShipped)

From tblShipLine slInner

Where sl.OrderID = sllnner.OrderID And sl.ItemID = sllnner.ItemID), 0) TotalQtyShipped,

ol.Quantity - ISNULL((Select SUM(QtyShipped)

From tblShipLine slInner

Where sl.OrderID = sllnner.OrderID And sl.ItemID = sllnner.ItemID), 0) LeftToShip

From tblOrderLine ol Left Outer Join tblShipLine sl

On ol.OrderID = sl.OrderID And ol.ItemID = sl.ItemID

Group By ol.OrderID, ol.ItemID, ol.Price, ol.Quantity, sl.OrderID, sl.ItemID

Order By ol.OrderID, ol.ItemID;

	OrderID	ItemID	Price	Quantity	TotalQtyShipped	LeftToShip
1	123000	A23441	29.95	8	8	0
2	123000	A34665	37.95	30	32	-2
3	123000	B67123	389.99	5	5	0
4	200335	A23441	29.95	1	6	-5
5	200335	A34665	34.95	1	0	1
6	200335	B67123	39.99	1	0	1
7	200335	B67466	43.95	1	1	0
8	223344	A23441	29.95	55	28	27
9	223344	A23771	122.99	15	45	-30
10	223344	A34665	23.95	100	110	-10
11	223344	A34882	7.95	35	35	0
12	223344	B67123	34.95	25	25	0
13	223344	B67466	40.95	15	0	15
14	300221	A23771	145.99	1	1	0
15	300221	A34665	35.95	1	1	0
16	300221	A34882	10.95	1	1	0
17	300221	B67123	39.99	1	1	0
18	300221	B78244	19.95	1	1	0
19	400001	C26133	395.95	1	0	1
20	445511	C34122	269.95	3	3	0
21	450137	A23771	135.99	16	0	16
22	450137	A34665	31.00	10	10	0
23	450137	A34882	9.95	50	15	35
24	450137	B67123	14.95	21	29	-8
25	450137	B67466	41.95	9	9	0

26	450137	C26133	398.95	4	0	4
27	450137	C34122	167.95	6	0	6
28	567123	C26133	395.95	1	0	1
29	651222	A34665	37.95	5	5	0
30	651222	A34882	11.95	16	68	-52
31	651222	B78244	17.99	21	21	0
32	671100	C29179	259.95	1	1	0
33	781206	B67466	43.95	1	4	-3
34	781206	C29179	280.00	2	0	2
35	892211	C26133	380.00	15	0	15
36	892211	C29179	259.95	10	10	0
37	892211	C34122	200.00	8	5	3
38	980001	C29179	275.99	3	3	0
39	980001	C34122	169.95	2	2	0
40	983983	A23771	135.99	1	0	1
41	983983	B78244	18.95	18	0	18

Select ol.OrderID,

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

ol.ItemID, ol.Price, ol.Quantity,

ISNULL((Select SUM(QtyShipped) From tblShipLine slInner

Where sl.OrderID = sllnner.OrderID And sl.ItemID = sllnner.ItemID), 0) TotalQtyShipped,

ol.Quantity - ISNULL((Select SUM(QtyShipped)

From tblShipLine sllnner

Where sl.OrderID = sllnner.OrderID And sl.ItemID = sllnner.ItemID), 0) LeftToShip

From tblOrderLine ol Left Outer Join tblShipLine sl

On ol.OrderID = sl.OrderID And ol.ItemID = sl.ItemID

Inner Join tblOrder ord

On ol.OrderID = ord.OrderID

Inner Join tblCustomer cus

On ord.CustomerID = cus.CustomerID

Group By ol.OrderID, cus.LastName, cus.FirstName, ol.ItemID, ol.Price, ol.Quantity, sl.OrderID, sl.ItemID

Order By ol.OrderID, ol.ItemID;

	OrderID	CustomerName	ItemID	Price	Quantity	TotalQtyShipped	LeftToShip	
1	123000	Barrington, Margaret	A23441	29.95	8	8	0	
2	123000	Barrington, Margaret	A34665	37.95	30	32	-2	
3	123000	Barrington, Margaret	B67123	389.99	5	5	0	
4	200335	Rodriguez, Karen	A23441	29.95	1	6	-5	
5	200335	Rodriguez, Karen	A34665	34.95	1	0	1	
6	200335	Rodriguez, Karen	B67123	39.99	1	0	1	
7	200335	Rodriguez, Karen	B67466	43.95	1	1	0	
8	223344	Candriller, Kathy	A23441	29.95	55	28	27	
9	223344	Candriller, Kathy	A23771	122.99	15	45	-30	
10	223344	Candriller, Kathy	A34665	23.95	100	110	-10	
11	223344	Candriller, Kathy	A34882	7.95	35	35	0	
12	223344	Candriller, Kathy	B67123	34.95	25	25	0	
13	223344	Candriller, Kathy	B67466	40.95	15	0	15	
14	300221	Rodriguez, Karen	A23771	145.99	1	1	0	
15	300221	Rodriguez, Karen	A34665	35.95	1	1	0	
16	300221	Rodriguez, Karen	A34882	10.95	1	1	0	
17	300221	Rodriguez, Karen	B67123	39.99	1	1	0	
18	300221	Rodriguez, Karen	B78244	19.95	1	1	0	
19	400001	Jones, Martin	C26133	395.95	1	0	1	
20	445511	Jones, Martin	C34122	269.95	3	3	0	
21	450137	Rodriguez, Karen	A23771	135.99	16	0	16	
22	450137	Rodriguez, Karen	A34665	31.00	10	10	0	
23	450137	Rodriguez, Karen	A34882	9.95	50	15	35	
24	450137	Rodriguez, Karen	B67123	14.95	21	29	-8	
25	450137	Rodriguez, Karen	B67466	41.95	9	9	0	

26	450137	Rodriguez, Karen	C26133	398.95	4	0	4
27	450137	Rodriguez, Karen	C34122	167.95	6	0	6
28	567123	Rodriguez, Karen	C26133	395.95	1	0	1
29	651222	Martinez, Guadalu	A34665	37.95	5	5	0
30	651222	Martinez, Guadalu	A34882	11.95	16	68	-52
31	651222	Martinez, Guadalu	B78244	17.99	21	21	0
32	671100	Jones, Martin	C29179	259.95	1	1	0
33	781206	Argiento, Bud	B67466	43.95	1	4	-3
34	781206	Argiento, Bud	C29179	280.00	2	0	2
35	892211	Dao, Phong	C26133	380.00	15	0	15
36	892211	Dao, Phong	C29179	259.95	10	10	0
37	892211	Dao, Phong	C34122	200.00	8	5	3
38	980001	Guili, Mary Anne	C29179	275.99	3	3	0
39	980001	Guili, Mary Anne	C34122	169.95	2	2	0
40	983983	Jones, Martin	A23771	135.99	1	0	1
41	983983	Jones, Martin	B78244	18.95	18	0	18

Select ol.OrderID,

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

ol.ItemID, ite.Description,

it.CategoryDescription,

ite.ListPrice, ol.Price, ol.Quantity,

 ${\sf ISNULL}(({\sf Select\ SUM}({\sf QtyShipped})$

From tblShipLine slInner

Where sl.OrderID = slInner.OrderID And sl.ItemID = slInner.ItemID), 0) TotalQtyShipped,

ol.Quantity - ISNULL((Select SUM(QtyShipped)

From tblShipLine sllnner

Where sl.OrderID = sllnner.OrderID And sl.ItemID = sllnner.ItemID), 0) LeftToShip

From tblOrderLine ol Left Outer Join tblShipLine sl

On ol.OrderID = sl.OrderID And ol.ItemID = sl.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

Inner Join tblltemType it

On ite.TypeID = it.TypeID

Group By ol.OrderID, cus.LastName, cus.FirstName, ol.ItemID, ite.Description, it.CategoryDescription,

ite.ListPrice, ol.Price, ol.Quantity, sl.OrderID, sl.ItemID

Order By ol.OrderID, ol.ItemID;

	OrderID	CustomerName	ItemID	Description	CategoryDescription	ListPrice	Price	Quantity	TotalQtyShipped	LeftToShip
1	123000	Barrington, Margaret	A23441	New York City Monopoly Game Collector's Edition	Classic Board Games	29.95	29.95	8	8	0
2	123000	Barrington, Margaret	A34665	Boggle Deluxe 5x5	Classic Board Games	34.95	37.95	30	32	-2
3	123000	Barrington, Margaret	B67123	Tiny Epic Galaxies	Science Fiction and Fantasy	39.99	389.99	5	5	0
4	200335	Rodriguez, Karen	A23441	New York City Monopoly Game Collector's Edition	Classic Board Games	29.95	29.95	1	6	-5
5	200335	Rodriguez, Karen	A34665	Boggle Deluxe 5x5	Classic Board Games	34.95	34.95	1	0	1
6	200335	Rodriguez, Karen	B67123	Tiny Epic Galaxies	Science Fiction and Fantasy	39.99	39.99	1	0	1
7	200335	Rodriguez, Karen	B67466	Diplomacy: Game of Negotiation, Cunning and Dec	Office and Team Building	43.95	43.95	1	1	0
8	223344	Candriller, Kathy	A23441	New York City Monopoly Game Collector's Edition	Classic Board Games	29.95	29.95	55	28	27
9	223344	Candriller, Kathy	A23771	Mysterium	Science Fiction and Fantasy	132.99	122.99	15	45	-30
10	223344	Candriller, Kathy	A34665	Boggle Deluxe 5x5	Classic Board Games	34.95	23.95	100	110	-10
11	223344	Candriller, Kathy	A34882	Perudo	Classic Board Games	10.95	7.95	35	35	0
12	223344	Candriller, Kathy	B67123	Tiny Epic Galaxies	Science Fiction and Fantasy	39.99	34.95	25	25	0
13	223344	Candriller, Kathy	B67466	Diplomacy: Game of Negotiation, Cunning and Dec	Office and Team Building	43.95	40.95	15	0	15
14	300221	Rodriguez, Karen	A23771	Mysterium	Science Fiction and Fantasy	132.99	145.99	1	1	0
15	300221	Rodriguez, Karen	A34665	Boggle Deluxe 5x5	Classic Board Games	34.95	35.95	1	1	0
16	300221	Rodriguez, Karen	A34882	Perudo	Classic Board Games	10.95	10.95	1	1	0
17	300221	Rodriguez, Karen	B67123	Tiny Epic Galaxies	Science Fiction and Fantasy	39.99	39.99	1	1	0
18	300221	Rodriguez, Karen	B78244	Code Names	Mystery and Thrillers	19.95	19.95	1	1	0
19	400001	Jones, Martin	C26133	Knowledge Management: Create a Learning Organi	Office and Team Building	395.95	395.95	1	0	1
20	445511	Jones, Martin	C34122	A Game of Strategy, Negotiation and Excitement for	Office and Team Building	169.95	269.95	3	3	0
21	450137	Rodriguez, Karen	A23771	Mysterium	Science Fiction and Fantasy	132.99	135.99	16	0	16
22	450137	Rodriguez, Karen	A34665	Boggle Deluxe 5x5	Classic Board Games	34.95	31.00	10	10	0
23	450137	Rodriguez, Karen	A34882	Perudo	Classic Board Games	10.95	9.95	50	15	35
24	450137	Rodriguez, Karen	B67123	Tiny Epic Galaxies	Science Fiction and Fantasy	39.99	14.95	21	29	-8
25	450137	Rodriguez, Karen	B67466	Diplomacy: Game of Negotiation, Cunning and Dec	Office and Team Building	43.95	41.95	9	9	0

26	450137	Rodriguez, Karen	C26133	Knowledge Management: Create a Learning Organi	Office and Team Building	395.95	398.95	4	0	4
27	450137	Rodriguez, Karen	C34122	A Game of Strategy, Negotiation and Excitement for	Office and Team Building	169.95	167.95	6	0	6
28	567123	Rodriguez, Karen	C26133	Knowledge Management: Create a Learning Organi	Office and Team Building	395.95	395.95	1	0	1
29	651222	Martinez, Guadalu	A34665	Boggle Deluxe 5x5	Classic Board Games	34.95	37.95	5	5	0
30	651222	Martinez, Guadalu	A34882	Perudo	Classic Board Games	10.95	11.95	16	68	-52
31	651222	Martinez, Guadalu	B78244	Code Names	Mystery and Thrillers	19.95	17.99	21	21	0
32	671100	Jones, Martin	C29179	Managing Change: The Game for an Executive Ret	Office and Team Building	259.95	259.95	1	141	0
3	781206	Argiento, Bud	B67466	Diplomacy: Game of Negotiation, Cunning and Dec	Office and Team Building	43.95	43.95	1	4	-3
34	781206	Argiento, Bud	C29179	Managing Change: The Game for an Executive Ret	Office and Team Building	259.95	280.00	2	0	2
5	892211	Dao, Phong	C26133	Knowledge Management: Create a Learning Organi	Office and Team Building	395.95	380.00	15	0	15
36	892211	Dao, Phong	C29179	Managing Change: The Game for an Executive Ret	Office and Team Building	259.95	259.95	10	10	0
37	892211	Dao, Phong	C34122	A Game of Strategy, Negotiation and Excitement for	Office and Team Building	169.95	200.00	8	5	3
38	980001	Guili, Mary Anne	C29179	Managing Change: The Game for an Executive Ret	Office and Team Building	259.95	275.99	3	3	0
39	980001	Guili, Mary Anne	C34122	A Game of Strategy, Negotiation and Excitement for	Office and Team Building	169.95	169.95	2	2	0
0	983983	Jones, Martin	A23771	Mysterium	Science Fiction and Fantasy	132.99	135.99	1	0	1
11	983983	Jones, Martin	B78244	Code Names	Mystery and Thrillers	19.95	18.95	18	0	18

Select ol.OrderID,

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

ol.ItemID, ite.Description,

it.CategoryDescription,

ite.ListPrice, ol.Price, ol.Quantity,

ISNULL((Select SUM(QtyShipped)

From tblShipLine slInner

Where sl.OrderID = slInner.OrderID And sl.ItemID = slInner.ItemID), 0) TotalQtyShipped,

ol.Quantity - ISNULL((Select SUM(QtyShipped)

From tblShipLine slInner

Where sl.OrderID = sllnner.OrderID And sl.ItemID = sllnner.ItemID), 0) LeftToShip

From tblOrderLine ol Left Outer Join tblShipLine sl

On ol.OrderID = sl.OrderID And ol.ItemID = sl.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

Inner Join tblltemType it

On ite.TypeID = it.TypeID

Group By ol.OrderID, cus.LastName, cus.FirstName, ol.ItemID, ite.Description, it.CategoryDescription,

ite.ListPrice, ol.Price, ol.Quantity, sl.OrderID, sl.ItemID

Having (ol.Quantity - ISNULL((Select SUM(QtyShipped)

From tblShipLine slInner

Where sl.OrderID = slInner.OrderID And sl.ItemID = slInner.ItemID), 0)) < 0

Order By ol.OrderID, ol.ItemID;

90	OrderID	CustomerName	ItemID	Description	CategoryDescription	ListPrice	Price	Quantity	TotalQtyShipped	LeftToShip
1	123000	Barrington, Margaret	A34665	Boggle Deluxe 5x5	Classic Board Games	34.95	37.95	30	32	-2
2	200335	Rodriguez, Karen	A23441	New York City Monopoly Game Collector's Edition	Classic Board Games	29.95	29.95	1	6	-5
3	223344	Candriller, Kathy	A23771	Mysterium	Science Fiction and Fantasy	132.99	122.99	15	45	-30
4	223344	Candriller, Kathy	A34665	Boggle Deluxe 5x5	Classic Board Games	34.95	23.95	100	110	-10
5	450137	Rodriguez, Karen	B67123	Tiny Epic Galaxies	Science Fiction and Fantasy	39.99	14.95	21	29	-8
6	651222	Martinez, Guadalupe	A34882	Perudo	Classic Board Games	10.95	11.95	16	68	-52
7	781206	Argiento, Bud	B67466	Diplomacy: Game of Negotiation, Cunning and Dec	Office and Team Building	43.95	43.95	1	4	-3

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

sl.OrderID, sl.ItemID,

ite.Description

From tblCustomer cus
Inner Join tblOrder ord

On cus.CustomerID = ord.CustomerID

Inner Join tblOrderLine ol

On ord.OrderID = ol.OrderID

Inner Join tblShipLine sl

On ol.OrderID = sl.OrderID And ol.ItemID = sl.ItemID

Inner Join tblltem ite

On ol.ItemID = ite.ItemID

Where UPPER(sl.MethodShipped) = 'FEDEX'

Order By cus.LastName;

	CustomerName	OrderID	ItemID	Description
1	Candriller, Kathy	223344	A34882	Perudo
2	Guili, Mary Anne	980001	C34122	A Game of Strategy, Negotiation and Excitement for
3	Guili, Mary Anne	980001	C29179	Managing Change: The Game for an Executive Retreat
4	Jones, Martin	445511	C34122	A Game of Strategy, Negotiation and Excitement for
5	Martinez, Guadalupe	651222	A34882	Perudo
6	Rodriguez, Karen	450137	A34665	Boggle Deluxe 5x5
7	Rodriguez, Karen	450137	B67466	Diplomacy: Game of Negotiation, Cunning and Deceit.