IS 475/675 - HW #6

1. Code

Select (FirstName + ' ' + LastName) CustomerName,

Phone CustomerPhone,

City, State,

FirstBuyDate

From tblCustomer Where State = 'NV' Order By LastName;

1. Output

93	CustomerName	CustomerPhone	City	State	FirstBuyDate
1	Margaret Barrington	7757464561	reno	nv	2006-07-12 00:00:00.000
2	Lian Chen	7757218991	REno	Nv	1999-08-30 00:00:00.000
3	Brittany Cranston	7753312199	Sparks	NV	2014-04-12 00:00:00.000
4	Janice Jackson	7753317188	Sparks	NV	2014-05-06 00:00:00.000
5	Martin Jones	7753314838	reno	nv	2016-02-12 00:00:00.000
6	Guadalupe Martinez	7758837612	Reno	NV	2012-02-14 00:00:00.000
7	Kendall Phillips	7753324636	SPARKS	nv	2000-08-12 00:00:00.000
8	Tiffany Polanski	7757465771	RENO	NV	2011-08-23 00:00:00.000

2. Code

Select (LastName + ', ' + SUBSTRING(FirstName,1,1) + '.') 'Customer Name',

'(' + SUBSTRING(Phone,1,3) + ') ' + SUBSTRING(Phone,4,3) + '-' + SUBSTRING(Phone,7,4) 'Phone Number',

UPPER(City) City, UPPER(State) State,

CONVERT(varchar, FirstBuyDate, 107) FirstBuyDate

From tblCustomer Where State = 'NV' Order By LastName;

0.	Customer Name	Phone Number	City	State	FirstBuyDate
1	Barrington, M.	(775) 746-4561	RENO	NV	Jul 12, 2006
2	Chen, L.	(775) 721-8991	RENO	NV	Aug 30, 1999
3	Cranston, B.	(775) 331-2199	SPARKS	NV	Apr 12, 2014
4	Jackson, J.	(775) 331-7188	SPARKS	NV	May 06, 2014
5	Jones, M.	(775) 331-4838	RENO	NV	Feb 12, 2016
6	Martinez, G.	(775) 883-7612	RENO	NV	Feb 14, 2012
7	Phillips, K.	(775) 332-4636	SPARKS	NV	Aug 12, 2000
8	Polanski, T.	(775) 746-5771	RENO	NV	Aug 23, 2011

3. Code

Select CONVERT(varchar, OrderDate, 101) 'Date of Order',

OrderID 'Order Number',

CustomerID 'Customer Number',

CreditCode 'Credit Code'

From tblOrder

Where DiscountCode IS NULL

Order By OrderDate;

3. Output

8	Date of Order	Order Number	Customer Number	Credit Code
1	12/28/2015	675990	00625	111
2	12/28/2015	892211	00625	111
3	12/29/2015	450137	07831	444
4	01/26/2016	567123	07831	444
5	01/26/2016	200335	07831	111
6	01/29/2016	651222	12006	111
7	02/09/2016	223344	21142	231
8	02/19/2016	983983	32018	111
9	02/19/2016	671100	32018	111

4. Code

Select OrderID OrderNumber,

ItemID ItemNumber,

Quantity QuantitiyOrdered,

Price PricePaid,

(Price * Quantity) ExtendedPrice

From tblOrderLine

Where ItemID = 'A34665'

Order By OrderID;

4. Output

32	OrderNumber	ItemNumber	QuantitiyOrdered	PricePaid	ExtendedPrice
1	123000	A34665	30	37.95	1138.50
2	200335	A34665	1	34.95	34.95
3	223344	A34665	100	23.95	2395.00
4	300221	A34665	1	35.95	35.95
5	450137	A34665	10	31.00	310.00
6	651222	A34665	5	37.95	189.75

5. Code

Select OrderID OrderNumber,

ItemID ItemNumber,

Quantity QuantitiyOrdered,

Price PricePaid,

(Price * Quantity) ExtendedPrice

From tblOrderLine

Where (Price * Quantity) > 800

Order By OrderID, ItemID;

	OrderNumber	ItemNumber	QuantitiyOrdered	PricePaid	ExtendedPrice
1	123000	A34665	30	37.95	1138.50
2	123000	B67123	5	389.99	1949.95
3	223344	A23441	55	29.95	1647.25
4	223344	A23771	15	122.99	1844.85
5	223344	A34665	100	23.95	2395.00
6	223344	B67123	25	34.95	873.75
7	445511	C34122	3	269.95	809.85
8	450137	A23771	16	135.99	2175.84
9	450137	C26133	4	398.95	1595.80
10	450137	C34122	6	167.95	1007.70
11	892211	C26133	15	380.00	5700.00
12	892211	C29179	10	259.95	2599.50
13	892211	C34122	8	200.00	1600.00
14	980001	C29179	3	275.99	827.97

6. Code

Select OrderID OrderNumber,

ItemID ItemNumber,

Quantity QuantitiyOrdered,

Price PricePaid,

(Price * Quantity) ExtendedPrice,

CASE

WHEN (Price * Quantity) >= 5000 THEN '***Closely Watch the Status***'

WHEN (Price * Quantity) >= 2000 and (Price * Quantity) < 5000 THEN 'Very Large Order - Watch Dates'

WHEN (Price * Quantity) >= 1500 and (Price * Quantity) < 2000 THEN 'Large Order - Monitor'

WHEN (Price * Quantity) >= 1000 and (Price * Quantity) < 1500 THEN 'Medium Order'

ELSE NULL

END OrderStatusMessage

From tblOrderLine

Where (Price * Quantity) > 800

Order By OrderID, ItemID;

	OrderNumber	ItemNumber	QuantitiyOrdered	PricePaid	ExtendedPrice	OrderStatusMessage
1	123000	A34665	30	37.95	1138.50	Medium Order
2	123000	B67123	5	389.99	1949.95	Large Order - Monitor
3	223344	A23441	55	29.95	1647.25	Large Order - Monitor
4	223344	A23771	15	122.99	1844.85	Large Order - Monitor
5	223344	A34665	100	23.95	2395.00	Very Large Order - Watch Dates
6	223344	B67123	25	34.95	873.75	NULL
7	445511	C34122	3	269.95	809.85	NULL
8	450137	A23771	16	135.99	2175.84	Very Large Order - Watch Dates
9	450137	C26133	4	398.95	1595.80	Large Order - Monitor
10	450137	C34122	6	167.95	1007.70	Medium Order
11	892211	C26133	15	380.00	5700.00	***Closely Watch the Status***
12	892211	C29179	10	259.95	2599.50	Very Large Order - Watch Dates
13	892211	C34122	8	200.00	1600.00	Large Order - Monitor
14	980001	C29179	3	275.99	827.97	NULL

7. Code

Select OrderID,

ItemID,

CONVERT(varchar, DateShipped, 101) DateShipped,

QtyShipped,

UPPER(MethodShipped) MethodShipped

From tblShipLine

Where YEAR(DateShipped) = YEAR(GETDATE()) and (MONTH(DateShipped) = 1)

Order By OrderID, ItemID;

	OrderID	ItemID	DateShipped	QtyShipped	MethodShipped
1	450137	B67123	01/19/2016	8	UPS
2	450137	B67123	01/27/2016	3	UPS
3	450137	B67123	01/27/2016	14	UPS
4	450137	B67123	01/27/2016	4	UPS
5	892211	C29179	01/23/2016	6	UPS
6	892211	C34122	01/23/2016	2	UPS
7	892211	C34122	01/23/2016	3	UPS

8. Code

Select CONVERT(varchar, MIN(FirstBuyDate), 107) 'Earliest First Buy Date'

From tblCustomer;

8. Output

8	Earliest First Buy Date
1	Aug 15, 1999

9. Code

Select ROUND(AVG(Price), 2) 'Average Selling Price'

From tblOrderLine Where ItemID = 'A34665';

9. Output

	Average Selling Price
1	33.63

10. Code

Select ItemID itemid,

Count(ItemID) NumberOfRows, SUM(Quantity) QuantitySold, MIN(Price) MinimumPrice, MAX(Price) MaximumPrice, AVG(Price) AveragePrice

From tblOrderLine
Group By ItemID;

10. Output

32 - 3	itemid	NumberOfRows	QuantitySold	MinimumPrice	MaximumPrice	AveragePrice
1	A23441	3	64	29.95	29.95	29.95
2	A23771	4	33	122.99	145.99	135.24
3	A34665	6	147	23.95	37.95	33.625
4	A34882	4	102	7.95	11.95	10.20
5	B67123	5	53	14.95	389.99	103.974
6	B67466	4	26	40.95	43.95	42.70
7	B78244	3	40	17.99	19.95	18.9633
8	C26133	4	21	380.00	398.95	392.7125
9	C29179	4	16	259.95	280.00	268.9725
10	C34122	4	19	167.95	269.95	201.9625

11. Code

Select ItemID itemid,

Count(ItemID) NumberOfRows, SUM(Quantity) QuantitySold, MIN(Price) MinimumPrice, MAX(Price) MaximumPrice,

ROUND(AVG(Price), 2) AveragePrice,

FORMAT(((MAX(Price) - MIN(Price)) / MIN(Price)), 'p') Diff

From tblOrderLine

Group By ItemID

Having (MAX(Price) - MIN(Price)) / MIN(Price) > 0.5

	itemid	NumberOfRows	QuantitySold	MinimumPrice	MaximumPrice	AveragePrice	Diff
1	A34665	6	147	23.95	37.95	33.63	58.45 %
2	A34882	4	102	7.95	11.95	10.20	50.31 %
3	B67123	5	53	14.95	389.99	103.97	2,508.62 %
4	C34122	4	19	167.95	269.95	201.96	60.73 %

12. Code

Select OrderID 'Order Number',

CustomerID 'Customer Number',

CONVERT(varchar, OrderDate, 107) 'Date Ordered',

CONVERT(varchar, DATEADD(day, 40, OrderDate), 107) '40 Days After Date Ordered',

DATEDIFF(day, OrderDate, GETDATE()) 'Number of Days Difference',

GETDATE() 'Current Date and Time'

From tblOrder

Where DATEDIFF(day, OrderDate, GETDATE()) > 40;

12. Output

	Order Number	Customer Number	Date Ordered	40 Days After Date Ordered	Number of Days Difference	Current Date and Time
1	450137	07831	Dec 29, 2015	Feb 07, 2016	63	2016-03-01 22:06:04.240
2	675990	00625	Dec 28, 2015	Feb 06, 2016	64	2016-03-01 22:06:04.240
3	892211	00625	Dec 28, 2015	Feb 06, 2016	64	2016-03-01 22:06:04.240

13. Code

Select OrderID,

ItemID,

COUNT(*) NumberOfShipments, SUM(QtyShipped) TotalShipped

From tblShipLine
Group By OrderID, ItemID
Having COUNT(*) > 1
Order By OrderID, ItemID;

32 - 3	OrderID	ItemID	NumberOfShipments	TotalShipped
1	223344	A23441	3	28
2	223344	A23771	4	45
3	223344	A34665	2	110
4	223344	A34882	2	35
5	223344	B67123	2	25
6	450137	B67123	4	29
7	651222	A34665	2	5
8	651222	A34882	6	68
9	892211	C29179	2	10
10	892211	C34122	2	5

14. Code

Select CustomerID,

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

 $\hbox{'('+SUBSTRING(Phone,1,3)+')'+SUBSTRING(Phone,4,3)+'-'+SUBSTRING(Phone,7,4)~Phone Number,}\\$

UPPER(City) City, UPPER(State) State

From tblCustomer

Where CustomerID NOT IN

(Select CustomerID From tblOrder);

37	CustomerID	CustomerName	PhoneNumber	City	State
1	06774	Phillips, K.	(775) 332-4636	SPARKS	NV
2	08892	Twillers, B.	(809) 829-1838	SAN JOSE	CA
3	12001	Cranston, B.	(775) 331-2199	SPARKS	NV
4	21143	Jackson, J.	(775) 331-7188	SPARKS	NV
5	29188	Polanski, T.	(775) 746-5771	RENO	NV
6	30192	Chen, L.	(775) 721-8991	RENO	NV
7	32817	Foster, B.	(858) 328-4483	SAN DIEGO	CA

15. Code

Select CustomerID,

(LastName + ', ' + SUBSTRING(FirstName,1,1) + '.') 'Customer Name',

'(' + SUBSTRING(Phone,1,3) + ') ' + SUBSTRING(Phone,4,3) + '-' + SUBSTRING(Phone,7,4) 'Phone Number',

UPPER(City) City, UPPER(State) State,

CONVERT(varchar, FirstBuyDate, 107) 'First Purchase Date'

From tblCustomer Where FirstBuyDate =

(Select MAX(FirstBuyDate)

From tblCustomer);

15. Output

	CustomerID	Customer Name	Phone Number	City	State	First Purchase Date
1	32018	Jones, M.	(775) 331-4838	RENO	NV	Feb 12, 2016