

	VendorID	VendorName	VendorAddress	VendorPhone
1	09567	Apex Mills	3500 Industrial Parkway, Sparks, NV	(775) 555-2894
2	17453	Albemarle Corporation	2355-B Vista Drive, Sparks, NV	(775) 555-3451
3	22890	Kitchen Chemicals Corp.	7750 Rock Blvd., Sparks, NV	(775) 555-2566

2.

1 E 2 3 4	SELECT	CONVERT(varchar, DateNeeded, 107) ProductID PONumber QtyOrdered	'Date Needed', 'Product Number', 'Purchase Order Number', 'Quantity Ordered',
5		Price,	
6		<pre>CAST((QtyOrdered * Price) AS DECIMAL(8,2))</pre>	'Extended Price'
7	FROM	PurchaseOrderLine	
8	WHERE	YEAR(DateNeeded) <> YEAR(GETDATE())	
9	ORDER BY	DateNeeded:	

	Date Needed	Product Number	Purchase Order Number	Quantity Ordered	Price	Extended Price
1	Jan 10, 2018	G1366	543791	48.00	1.89	90.72
2	Jan 10, 2018	G5698	543791	48.00	2.38	114.24
3	Jan 12, 2018	T0460	329987	50.00	3.10	155.00
4	Mar 14, 2018	T0460	365870	120.00	2.39	286.80

3.

	Least Expensive Selling Price for Product G5698
1	1.22

	Total Order Price for September
1	4195.15

```
1 □ SELECT
                 ProductID
                                 'Product Number',
                                 'Product Description',
                 Description
2
                                 'Economic Order Quantity',
3
                 EOQ
4
                                 'Quantity on Hand',
                 QOH
                                 'Difference',
5
                 QOH - EOQ
6
                 CASE
7
                    WHEN QOH - EOQ >= -50
                        THEN 'Null'
8
9
                    WHEN QOH - EOQ < -50
                        THEN 'Order Now'
10
                 End
                                 'Order Message'
11
12
     FROM
                 Product
                QOH - EOQ < 0
13
    WHERE
14
    ORDER BY
                 ProductID;
15
```

	Product Number	Product Description	Economic Order Quantity	Quantity on Hand	Difference	Order Message
1	A7879	Canvas, Non-Woven	2000.00	1200.00	-800.00	Order Now
2	C2399	Thermoplastic	10.00	5.00	-5.00	Null
3	C9100	Unbleached Muslin	8000.00	5500.00	-2500.00	Order Now
4	G0983	Alpine Small Pot	100.00	65.00	-35.00	Null
5	L8500	Hiking Lounge Seating - Blue	15.00	1.00	-14.00	Null
6	L8501	Hiking Lounge Seating - Gray	10.00	0.00	-10.00	Null
7	01957	Poly pro tubing, 1/2"	300.00	95.00	-205.00	Order Now
8	P5678	Stuff Sacks - Pillow Size	48.00	40.00	-8.00	Null
9	P7844	Down Baffle Liner	50.00	45.00	-5.00	Null
10	R5660	Water Filtration Pump	30.00	25.00	-5.00	Null
11	T0460	Alpine Water Bottle	100.00	15.00	-85.00	Order Now

6.

```
□ SELECT

                 ProductID
                                   'Product Number',
                                   'Product Description',
 2
                 Description
                                  'Economic Order Quantity',
3
                 EOQ
                                   'Quantity on Hand',
4
                 QOH
5
                                  'Difference',
                 QOH - EOQ
                 CASE
6
7
                     WHEN QOH = 0
                          THEN 'Order Immediately'
8
                     WHEN QOH - EOQ < -35
9
                          THEN 'Order This Week'
10
11
                     WHEN QOH - EOQ BETWEEN -35 AND -11
12
                          THEN 'Order Next Week'
13
                      WHEN QOH - EOQ BETWEEN -10 AND -6
14
                          THEN 'Order Next Month'
15
                     WHEN QOH - EOQ BETWEEN -1 AND -5
16
                          THEN 'No Message'
17
                 End
                                  'Order Message'
18
     FROM
                 Product
19
                 QOH - EOQ < 0
     WHERE
20
    ORDER BY
                 EOQ DESC;
```

	Product Number	Product Description	Economic Order Quantity	Quantity on Hand	Difference	Order Message
1	C9100	Unbleached Muslin	8000.00	5500.00	-2500.00	Order This Week
2	A7879	Canvas, Non-Woven	2000.00	1200.00	-800.00	Order This Week
3	01957	Poly pro tubing, 1/2"	300.00	95.00	-205.00	Order This Week
4	G0983	Alpine Small Pot	100.00	65.00	-35.00	Order Next Week
5	T0460	Alpine Water Bottle	100.00	15.00	-85.00	Order This Week
6	P7844	Down Baffle Liner	50.00	45.00	-5.00	NULL
7	P5678	Stuff Sacks - Pillow Size	48.00	40.00	-8.00	Order Next Month
8	R5660	Water Filtration Pump	30.00	25.00	-5.00	NULL
9	L8500	Hiking Lounge Seating - Blue	15.00	1.00	-14.00	Order Next Week
10	L8501	Hiking Lounge Seating - Gray	10.00	0.00	-10.00	Order Immediately
11	C2399	Thermoplastic	10.00	5.00	-5.00	NULL

```
ProductTypeID
                                                           'Product Type ID',
1 □ SELECT
                COUNT(*)
                                                           'Count of Products',
2
3
                CAST(SUM(QOH) AS int)
                                                           'Total Quantity on Hand',
4
                CAST(AVG(QOH) AS decimal(10,2))
5
    FROM
                Product
6
    GROUP BY
                ProductTypeID
                ProductTypeID;
7
    ORDER BY
8
```

	Product Type ID	Count of Products	Total Quantity on Hand	(No column name)
1	CC	2	40	20.00
2	CS	3	6705	2235.00
3	НТ	1	65	65.00
4	LA	2	1	0.50
5	MS	5	2540	508.00
6	PG	1	40	40.00
7	UT	3	201	67.00

8.

```
□ SELECT
                                                           'Product Type ID',
                 ProductTypeID
1
                                                           'Count of Products',
2
                 COUNT(*)
3
                 CAST(SUM(QOH) AS int)
                                                           'Total Quantity on Hand',
4
                 CASE
5
                     WHEN AVG(QOH) > 50
6
                         THEN CAST(AVG(QOH) AS decimal(10,2))
7
                                                           'Average Quantity on Hand'
                 END
8
    FROM
                 Product
9
    GROUP BY
                 ProductTypeID
                 AVG(QOH) > 50
10
    HAVING
                 ProductTypeID;
    ORDER BY
1
```

	Product Type ID	Count of Products	Total Quantity on Hand	Average Quantity on Hand
1	CS	3	6705	2235.00
2	HT	1	65	65.00
3	MS	5	2540	508.00
4	UT	3	201	67.00

```
1 □ SELECT
                ProductID
                                                             'Product Number',
                CONVERT(varchar, MAX(DatePurchased), 101)
                                                             'Last Date Purchased',
2
3
                COUNT (QTY)
                                                             'Number of Times Purchased',
                                                             'Minimum Purchase Price',
                CAST(MIN(Price) AS decimal(4, 2))
4
                CAST(MAX(Price) AS decimal(4, 2))
                                                             'Maximum Purchase Price',
5
                MAX(Price) - (MIN(Price))
                                                             'Difference Between Maximum and Minimum Price'
6
7
                PurchaseHistory
    FROM
   GROUP BY
                ProductID;
```

	Product Number	Last Date Purchased	Number of Times Purchased	Minimum Purchase Price	Maximum Purchase Price	Difference Between Maximum and Minimum Price
1	A7879	03/15/2017	4	0.07	0.12	0.05
2	C2399	08/12/2017	8	1.45	1.99	0.54
3	G0983	03/12/2017	6	1.99	2.38	0.39
4	G1258	07/21/2017	2	4.29	4.29	0.00
5	G1366	06/20/2017	1	4.81	4.81	0.00
6	G5698	06/20/2017	2	2.16	2.21	0.05
7	L8500	12/12/2016	3	26.22	38.40	12.18
8	L8501	12/12/2016	1	29.94	29.94	0.00
9	M3577	07/12/2017	8	4.85	6.35	1.50
10	01957	07/23/2017	7	0.41	0.65	0.24
11	P5678	06/12/2017	1	23.51	23.51	0.00
12	P7844	07/12/2017	1	0.67	0.67	0.00
13	R5660	06/18/2017	3	2.10	2.15	0.05
14	T0460	02/19/2017	3	1.12	1.98	0.86

```
'Product Number',
1 ⊟SELECT
                ProductID
                CONVERT(varchar, MAX(DatePurchased), 101)
                                                             'Last Date Purchased',
2
                                                             'Number of Times Purchased',
3
                COUNT(QTY)
4
                CAST(MIN(Price) AS decimal(4, 2))
                                                             'Minimum Purchase Price',
5
                CAST(MAX(Price) AS decimal(4, 2))
                                                             'Maximum Purchase Price',
                MAX(Price) - MIN(Price)
                                                             'Difference Between Maximum and Minimum Price'
6
7
    FROM
                PurchaseHistory
    GROUP BY
                ProductID
8
9
   HAVING
                MAX(Price) - MIN(Price) = 0;
10
```

	Product Number	Last Date Purchased	Number of Times Purchased	Minimum Purchase Price	Maximum Purchase Price	Difference Between Maximum and Minimum Price
1	G1258	07/21/2017	2	4.29	4.29	0.00
2	G1366	06/20/2017	1	4.81	4.81	0.00
3	L8501	12/12/2016	1	29.94	29.94	0.00
4	P5678	06/12/2017	1	23.51	23.51	0.00
5	P7844	07/12/2017	1	0.67	0.67	0.00

1 6	SELECT	PONumber	'Purchase Order Number',
2		ProductID	'Product Number',
3		CONVERT(varchar, DateNeeded, 107)	'Date Needed',
4		COUNT(ReceiverID)	'Number of Receivers',
5		CAST(SUM(QtyReceived) AS int)	'Total Quantity Received'
6	FROM	Receiver	
7	GROUP BY	PONumber,	
8		ProductID,	
9		DateNeeded	
10	ORDER BY	PONumber,	
11		ProductID,	
12		DateNeeded;	

	Purchase Order Number	Product Number	Date Needed	Number of Receivers	Total Quantity Received
1	025974	М3577	Aug 18, 2017	3	600
2	025974	01957	Aug 18, 2017	2	310
3	045687	C2399	Sep 05, 2017	2	51
4	045687	01957	Sep 12, 2017	2	440
5	112233	M3577	Oct 07, 2017	2	640
6	112233	P7844	Sep 24, 2017	1	475
7	234607	C2399	Sep 06, 2017	3	75
8	234607	G0983	Sep 08, 2017	1	200
9	234607	G1366	Sep 10, 2017	3	182
10	234607	G5698	Sep 19, 2017	1	182
11	234607	R5660	Sep 26, 2017	2	100
12	234607	T0460	Sep 26, 2017	1	200
13	256887	C2399	Oct 15, 2017	1	20
14	256887	P5678	Oct 15, 2017	2	49
15	543791	G0983	Sep 17, 2017	2	100
16	543791	G0983	Sep 28, 2017	1	20
17	543791	G0983	Oct 02, 2017	1	20
18	543791	G0983	Oct 12, 2017	2	25
19	543791	G5698	Oct 15, 2017	1	12
20	543791	T0460	Oct 12, 2017	3	120
21	600124	G0983	Oct 18, 2017	2	110
22	600124	G1366	Oct 18, 2017	1	150
23	600124	G5698	Oct 18, 2017	3	100
24	902347	G0983	Oct 15, 2017	3	100
25	902347	T0460	Sep 22, 2017	2	100
26	902347	T0460	Dec 05, 2017	1	100

12.

```
1 □ SELECT
                 CONVERT(varchar, PODateNeeded, 107)
                                                           'Date Needed',
                 CONVERT(varchar, GETDATE(), 107)
                                                           'Today''s Date',
2
 3
                 DATEDIFF(day, PODateNeeded, GETDATE())
                                                           'Days Overdue',
4
                 PONumber
                                                           'Purchase Order Number',
5
                 CONVERT(varchar, PODatePlaced, 107)
                                                           'Date Ordered',
                 BuyerEmpID
6
                                                           'Buyer',
7
                 VendorID
                 PurchaseOrder
8
     FROM
9
    WHERE
                 DATEDIFF(day, PODateNeeded, GETDATE()) > 7
                 PODateNeeded;
10
    ORDER BY
```

	Date Needed	Today's Date	Days Overdue	Purchase Order Number	Date Ordered	Buyer	VendorID
1	Aug 15, 2017	Oct 19, 2017	65	056489	Aug 04, 2017	E10055	36257
2	Aug 18, 2017	Oct 19, 2017	62	025974	Aug 15, 2017	E10015	18567
3	Sep 12, 2017	Oct 19, 2017	37	045687	Aug 21, 2017	E10055	00216
4	Sep 28, 2017	Oct 19, 2017	21	234607	Sep 04, 2017	E10055	17453

13.

```
CONCAT(EmpLastName, ', ', SUBSTRING(EmpFirstName,1, 1) + '.')
1 □ SELECT
                                                                                 'Employee Name',
                '(' + Substring(EmpPhone, 1, 3) + ')
2
                    + Substring(EmpPhone, 4, 3) + '-'
3
4
                    + Substring(EmpPhone, 7, 4)
                                                                                 'Employee Phone Number',
5
                EmpMgrID
                                                                                 'Employee Manager ID'
6
   FROM
                Employee
   WHERE
                EmpEmail IS NULL
   ORDER BY
                EmpFirstName;
```

	Employee Name	Employee Phone Number	Employee Manager ID
1	Alberghetti, A.	(775) 621-9005	NULL
2	Chen, J.	(775) 905-3821	E10015
3	Hernandez, N.	(775) 531-3562	E10003

1 8	SELECT	VendorID	'Vendor Number',
2		Name	'Vendor Name',
3		Zip	'Vendor Zip Code',
4		<pre>CONVERT(varchar, FirstBuyDate, 107)</pre>	'Date First Purchased'
5	FROM	Vendor	
6	WHERE	FirstBuyDate = (SELECT MIN(FirstBuy	yDate)
7		FROM Vendor);	

	Vendor Number	Vendor Name	Vendor Zip Code	Date First Purchased
1	17453	Albemarle Corporation	89431	Jun 14, 1998

	VendorID	Name	Zip	Date First Purchased
1	13135	Adventure Materials	84560-2700	Aug 04, 2016
2	20566	BestCo Food Equipment	15003	Sep 14, 2017
3	22890	Kitchen Chemicals Corp.	89431-5602	Jul 23, 2013