## ∃SELECT \*

## FROM uvw\_DetailProductInOrder

	Orderld	OrderNumber	OrderDate	ProductId	ProductInfo	UnitPrice	Quantity
1	1	542378	2012-07-04 00:00:00.000	11	Queso Cabrales 1 kg pkg.	14.00	12
2	1	542378	2012-07-04 00:00:00.000	42	Singaporean Hokkien Fried Mee 32 - 1 kg pkgs.	9.80	10
3	1	542378	2012-07-04 00:00:00.000	72	Mozzarella di Giovanni 24 - 200 g pkgs.	34.80	5
4	2	542379	2012-07-05 00:00:00.000	14	Tofu 40 - 100 g pkgs.	18.60	9
5	2	542379	2012-07-05 00:00:00.000	51	Manjimup Dried Apples 50 - 300 g pkgs.	42.40	40
6	3	542380	2012-07-08 00:00:00.000	41	Jack's New England Clam Chowder 12 - 12 oz cans	7.70	10
7	3	542380	2012-07-08 00:00:00.000	51	Manjimup Dried Apples 50 - 300 g pkgs.	42.40	35
8	3	542380	2012-07-08 00:00:00.000	65	Louisiana Fiery Hot Pepper Sauce 32 - 8 oz bottles	16.80	15
9	4	542381	2012-07-08 00:00:00.000	22	Gustaf's Knäckebröd 24 - 500 g pkgs.	16.80	6
10	4	542381	2012-07-08 00:00:00.000	57	Ravioli Angelo 24 - 250 g pkgs.	15.60	15
11	4	542381	2012-07-08 00:00:00.000	65	Louisiana Fiery Hot Pepper Sauce 32 - 8 oz bottles	16.80	20

```
CREATE VIEW uvw_AllProductInOrder

AS

SELECT OrderId, OrderNumber, OrderDate,
ProductList = STUFF((

SELECT ',' + CAST(I.ProductId AS NVARCHAR(25))
FROM [Order] O join OrderItem I ON O.Id = I.OrderId
WHERE I.OrderId = uvw_DetailProductInOrder.OrderId
FOR XML PATH ('')
), 1, 1, ''),

TotalAmount = SUM(UnitPrice * Quantity)
FROM uvw_DetailProductInOrder
GROUP BY OrderId, OrderNumber, OrderDate

GO
```

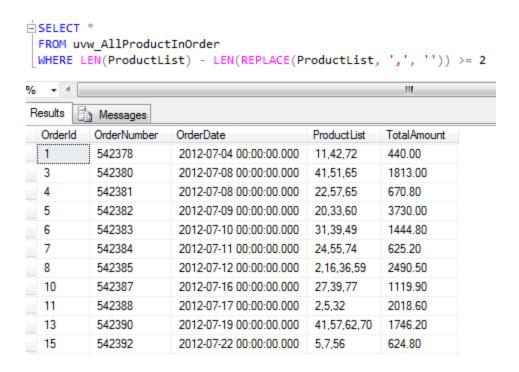
## **□SELECT** \*

FROM uvw\_AllProductInOrder

<b>→</b> 4 :::								
esults Messages								
Orderld	OrderNumber	OrderDate	ProductList	TotalAmount				
1	542378	2012-07-04 00:00:00.000	11,42,72	440.00				
2	542379	2012-07-05 00:00:00.000	14,51	1863.40				
3	542380	2012-07-08 00:00:00.000	41,51,65	1813.00				
4	542381	2012-07-08 00:00:00.000	22,57,65	670.80				
5	542382	2012-07-09 00:00:00.000	20,33,60	3730.00				
6	542383	2012-07-10 00:00:00.000	31,39,49	1444.80				
7	542384	2012-07-11 00:00:00.000	24,55,74	625.20				
8	542385	2012-07-12 00:00:00.000	2,16,36,59	2490.50				
9	542386	2012-07-15 00:00:00.000	53,77	517.80				
10	542387	2012-07-16 00:00:00.000	27,39,77	1119.90				
11	542388	2012-07-17 00:00:00.000	2,5,32	2018.60				

## SELECT \* FROM uvw\_DetailProductInOrder WHERE MONTH(OrderDate) = 7

+ 4	III ■ Messages								
esults 📋									
Orderld	OrderNumber	OrderDate	ProductId	ProductInfo	UnitPrice	Quantity			
1	542378	2012-07-04 00:00:00.000	11	Queso Cabrales 1 kg pkg.	14.00	12			
1	542378	2012-07-04 00:00:00.000	42	Singaporean Hokkien Fried Mee 32 - 1 kg pkgs.	9.80	10			
1	542378	2012-07-04 00:00:00.000	72	Mozzarella di Giovanni 24 - 200 g pkgs.	34.80	5			
2	542379	2012-07-05 00:00:00.000	14	Tofu 40 - 100 g pkgs.	18.60	9			
2	542379	2012-07-05 00:00:00.000	51	Manjimup Dried Apples 50 - 300 g pkgs.	42.40	40			
3	542380	2012-07-08 00:00:00.000	41	Jack's New England Clam Chowder 12 - 12 oz cans	7.70	10			
3	542380	2012-07-08 00:00:00.000	51	Manjimup Dried Apples 50 - 300 g pkgs.	42.40	35			
3	542380	2012-07-08 00:00:00.000	65	Louisiana Fiery Hot Pepper Sauce 32 - 8 oz bottles	16.80	15			
4	542381	2012-07-08 00:00:00.000	22	Gustaf's Knäckebröd 24 - 500 g pkgs.	16.80	6			
4	542381	2012-07-08 00:00:00.000	57	Ravioli Angelo 24 - 250 g pkgs.	15.60	15			
4	542381	2012-07-08 00:00:00 000	65	Louisiana Fiery Hot Penner Sauce 32 - 8 oz hottles	16.80	20			



4. Hai view trên đã readonly chưa ? Có những cách nào làm hai view trên thành readonly ?

Hai view trên chưa read-only. Những cách để làm cho hai trên thành read-only:

- Tạo trigger trên view.
- Thêm từ khóa UNION khi tạo view. Cụ thể, "UNION SELECT NULL WHERE 1 = 0"
- Thêm từ khóa WITH CHECK OPTION khi tạo view.

```
SET STATISTICS IO, TIME ON
  SELECT * FROM uvw_DetailProductInOrder
  SELECT * FROM uvw_AllProductInOrder
  SET STATISTICS IO, TIME OFF
      SQL Server parse and compile time:
               CPU time = 0 ms, elapsed time = 0 ms.
       (2155 row(s) affected)
      Table 'Workfile'. Scan count 0, logical reads 0, physical reads 0,
      Table 'Worktable'. Scan count 0, logical reads 0, physical reads 0
      Table 'OrderItem'. Scan count 1, logical reads 12, physical reads (
      Table 'Order'. Scan count 1, logical reads 8, physical reads 0, rea
      Table 'Product'. Scan count 1, logical reads 3, physical reads 0, 1
         SQL Server Execution Times:
               CPU time = 15 ms, elapsed time = 247 ms.
      SQL Server parse and compile time:
               CPU time = 0 ms, elapsed time = 0 ms.
       (830 row(s) affected)
      Table 'Worktable'. Scan count 830, logical reads 6015, physical reads 60
      Table 'OrderItem'. Scan count 2, logical reads 24, physical reads (
      Table 'Order'. Scan count 1, logical reads 1668, physical reads 0,
         SQL Server Execution Times:
               CPU time = 16 ms, elapsed time = 164 ms.
      SQL Server parse and compile time:
               CPU time = 0 ms, elapsed time = 0 ms.
```

View uvw\_AllProductInOrder (164ms) sẽ chạy nhanh hơn view uvw\_DetailProductInOrder (247ms)