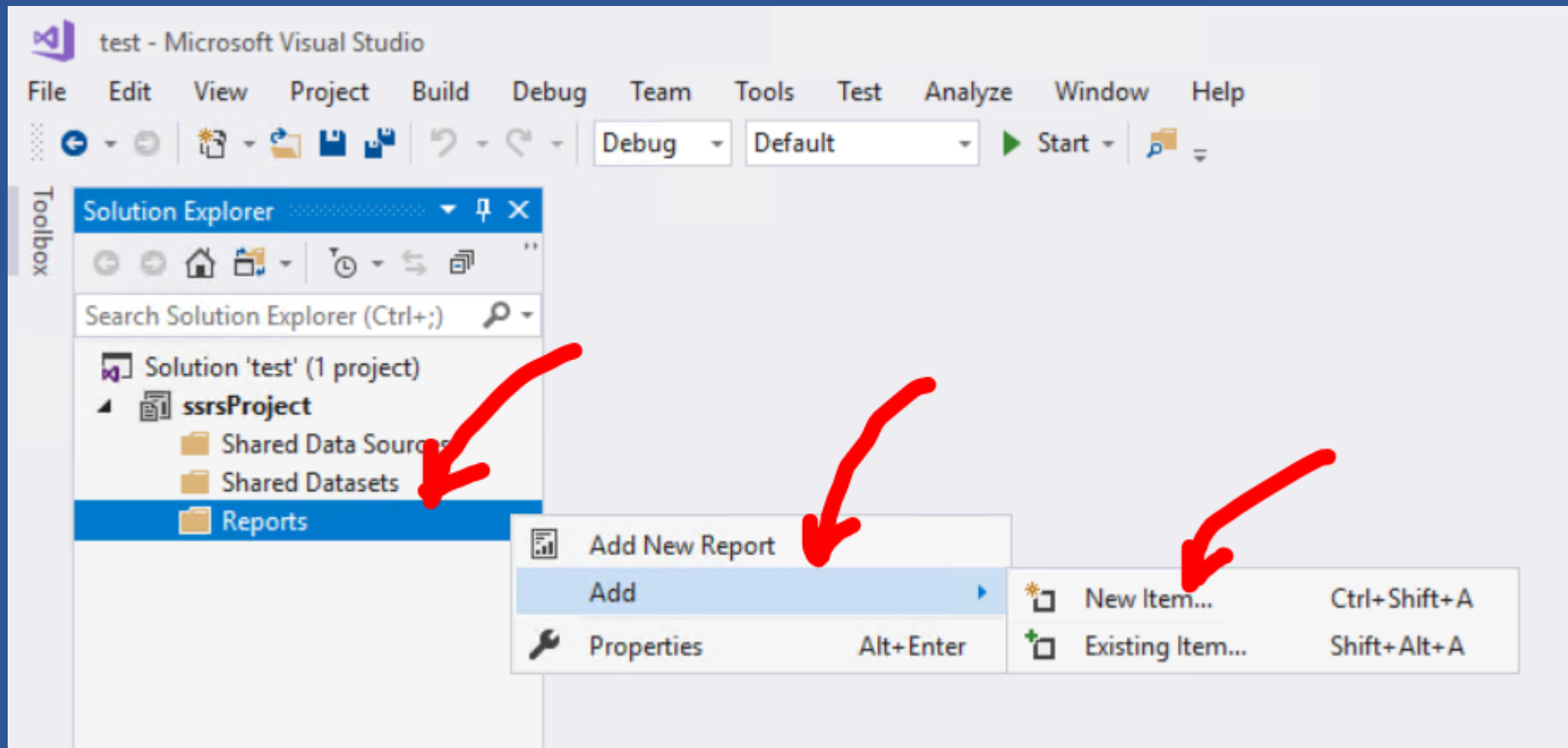


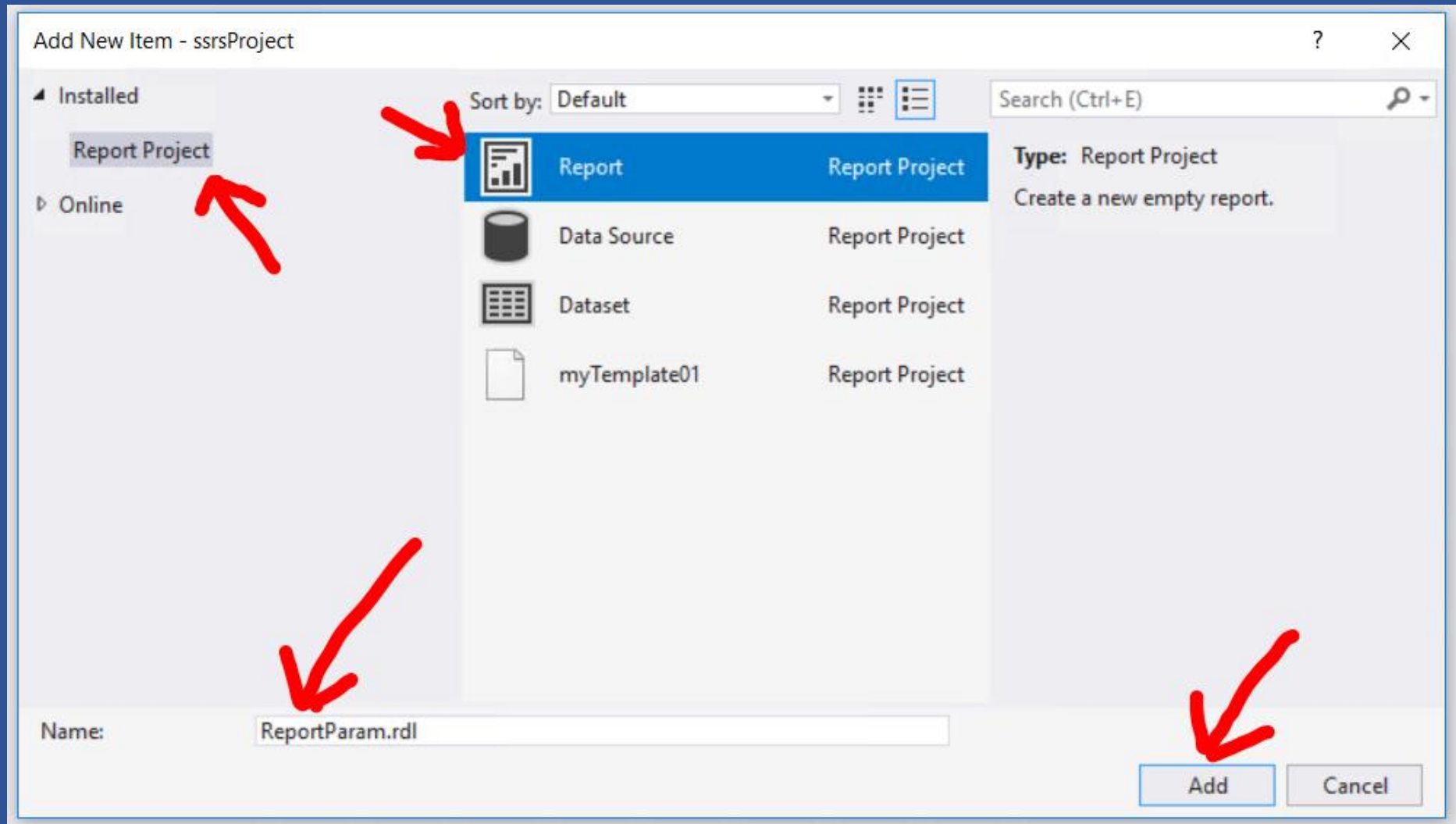
Report Parameter

Create New SSRS Project and Report

Add New item . . .

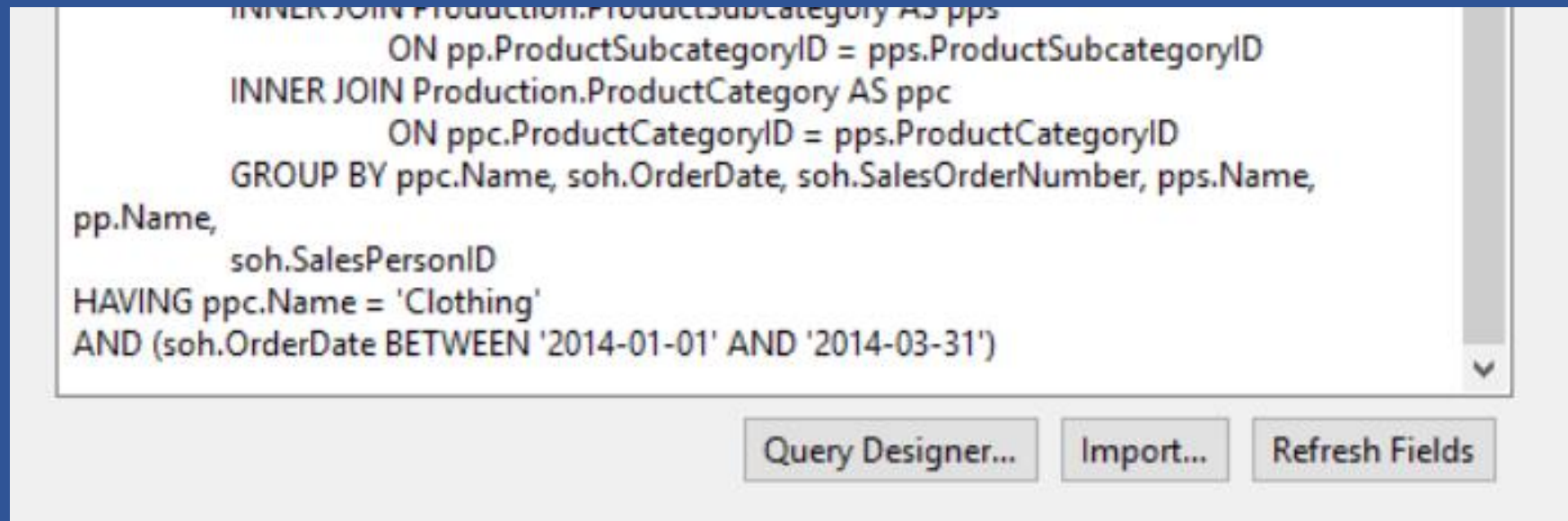


Add new report name = ReportParam.rdl



- Add Data Sources
- Add Dataset. Use the same query from pervious report and add this line the end.

AND (soh.OrderDate BETWEEN '2014-01-01' AND '2014-03-31')



Add a table / Place all fields / Format Date field

Design

Preview

1

of 2 ?

100%

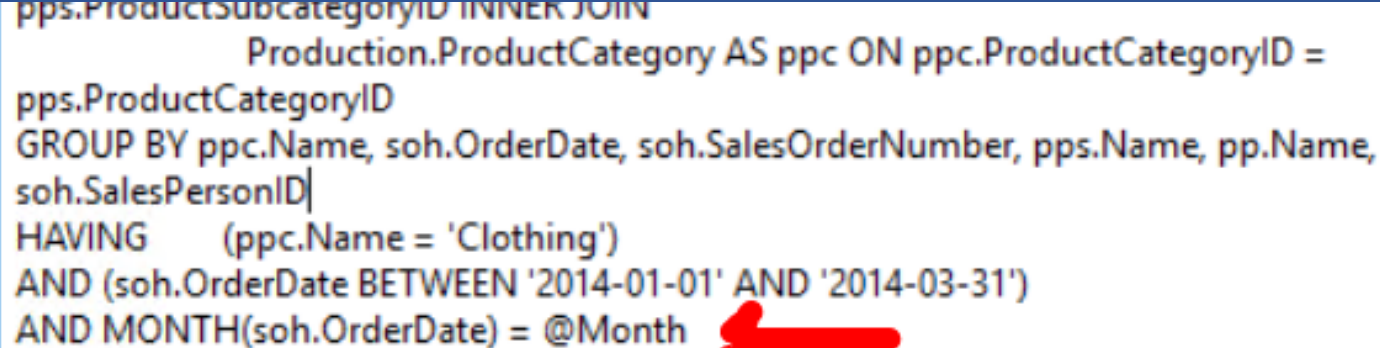
Find | Next

Date	Order	Subcat	Product	Qty	Line Total
29-Jan-14	SO65195	Jerseys	Long-Sleeve Logo Jersey, L	4	119.976000
01-Mar-14	SO67289	Vests	Classic Vest, S	12	433.120800
31-Mar-14	SO69396	Socks	Racing Socks, L	6	32.364000
31-Mar-14	SO69503	Jerseys	Short-Sleeve Classic Jersey, S	2	64.788000
29-Jan-14	SO65174	Jerseys	Long-Sleeve Logo Jersey, XL	5	149.970000
29-Jan-14	SO65177	Gloves	Half-Finger Gloves, M	4	58.776000
29-Jan-14	SO65183	Socks	Racing Socks, M	2	10.788000
01-Mar-14	SO67347	Jerseys	Short-Sleeve Classic Jersey, L	6	194.364000
29-Jan-14	SO65157	Jerseys	Short-Sleeve Classic Jersey, XL	7	226.758000

Creating Report Parameter

Add this line to the end of Query in DataSet1

AND MONTH(soh.OrderDate) = @Month



The screenshot shows a SQL query window with the following text:

```
pps.ProductSubcategoryID INNER JOIN  
    Production.ProductCategory AS ppc ON ppc.ProductCategoryID =  
pps.ProductCategoryID  
GROUP BY ppc.Name, soh.OrderDate, soh.SalesOrderNumber, pps.Name, pp.Name,  
soh.SalesPersonID  
HAVING (ppc.Name = 'Clothing')  
AND (soh.OrderDate BETWEEN '2014-01-01' AND '2014-03-31')  
AND MONTH(soh.OrderDate) = @Month
```

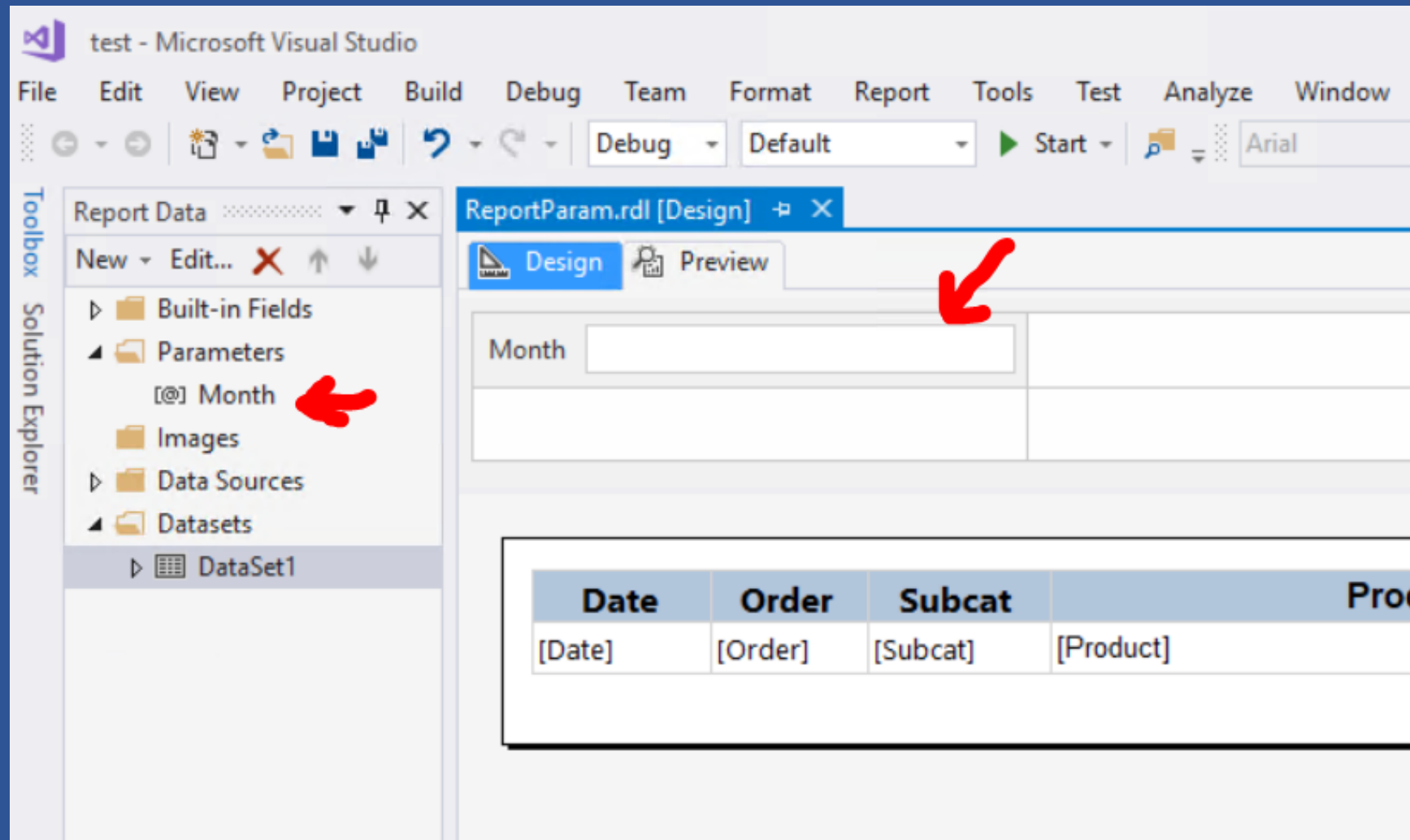
A red arrow points to the last line of the query, indicating where to add the parameter.

Query Designer...

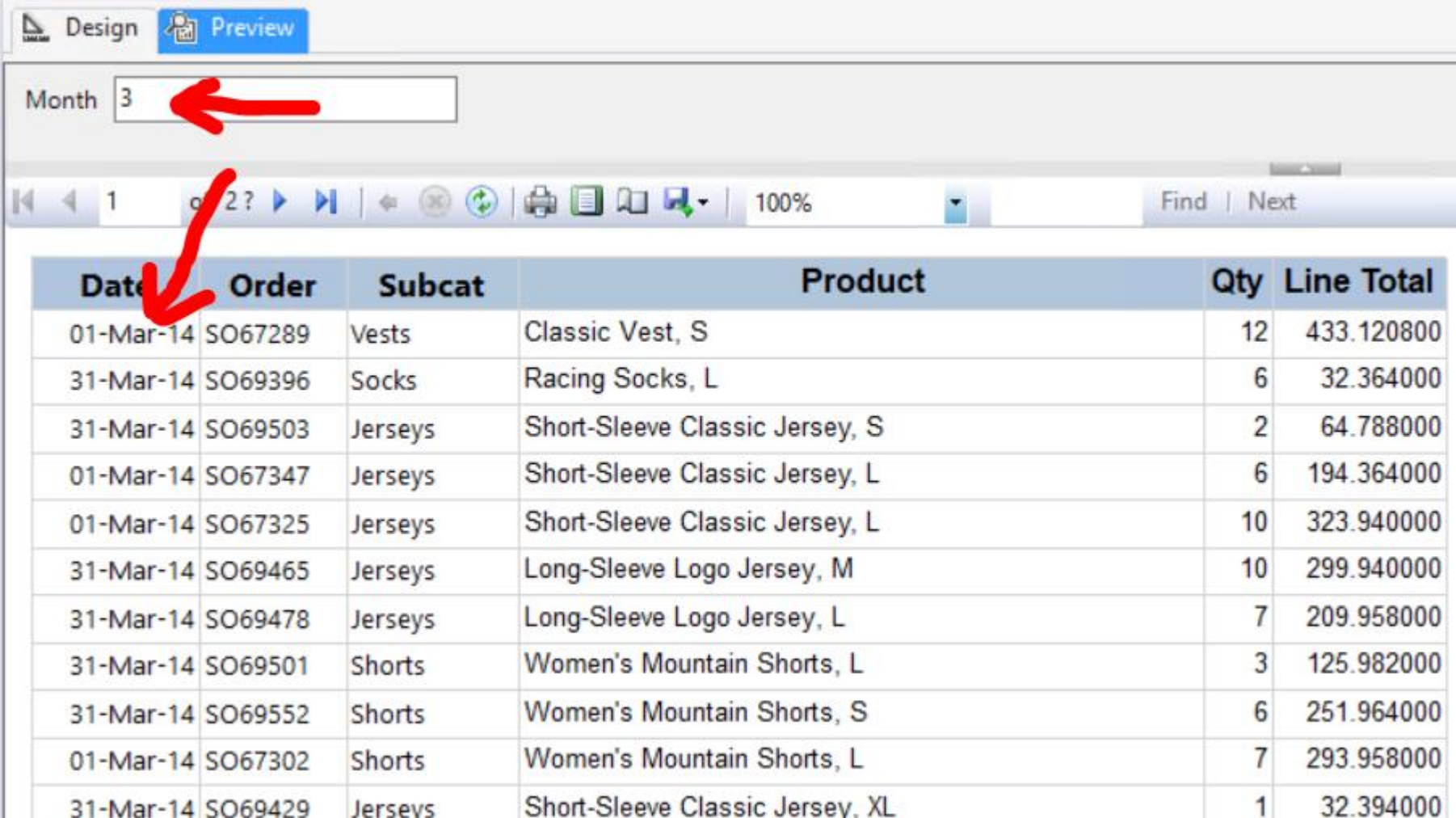
Import...

Refresh Fields

Verify that you have a new Parameter



Month 3 = Mar



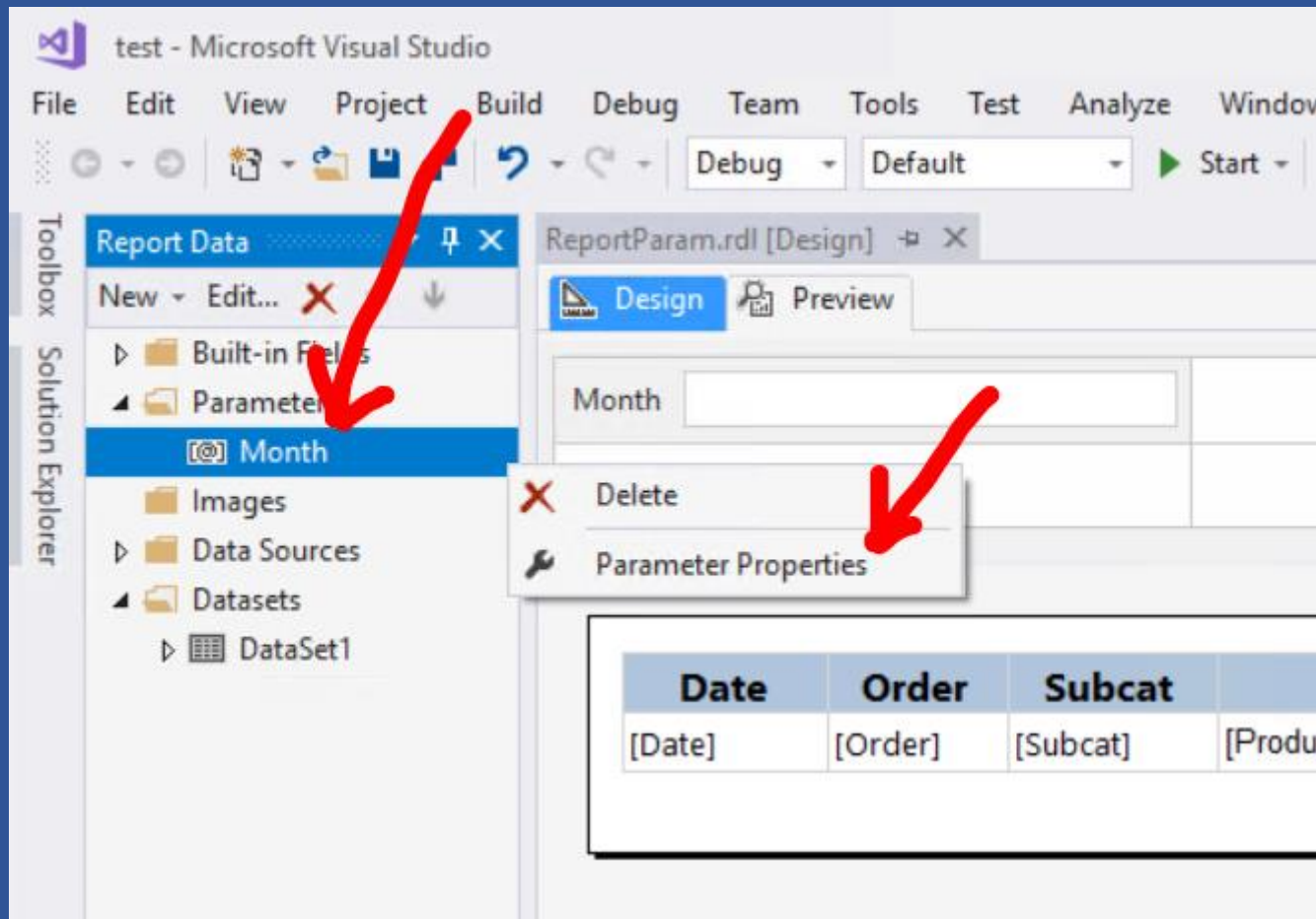
Month

1 of 2 ?

Date	Order	Subcat	Product	Qty	Line Total
01-Mar-14	SO67289	Vests	Classic Vest, S	12	433.120800
31-Mar-14	SO69396	Socks	Racing Socks, L	6	32.364000
31-Mar-14	SO69503	Jerseys	Short-Sleeve Classic Jersey, S	2	64.788000
01-Mar-14	SO67347	Jerseys	Short-Sleeve Classic Jersey, L	6	194.364000
01-Mar-14	SO67325	Jerseys	Short-Sleeve Classic Jersey, L	10	323.940000
31-Mar-14	SO69465	Jerseys	Long-Sleeve Logo Jersey, M	10	299.940000
31-Mar-14	SO69478	Jerseys	Long-Sleeve Logo Jersey, L	7	209.958000
31-Mar-14	SO69501	Shorts	Women's Mountain Shorts, L	3	125.982000
31-Mar-14	SO69552	Shorts	Women's Mountain Shorts, S	6	251.964000
01-Mar-14	SO67302	Shorts	Women's Mountain Shorts, L	7	293.958000
31-Mar-14	SO69429	Jerseys	Short-Sleeve Classic Jersey, XL	1	32.394000

Changing Parameter Prompt

Right-click Month / Parameter Properties



Change Prompt from “Month” to “Sale Month”

Report Parameter Properties

General

Available Values

Default Values

Advanced

Change name, data type, and other options.

Name: Month

Prompt: Sale Month

Data type: Text

☐ Allow blank value ("")

☐ Allow null value

☐ Allow multiple values

Select parameter visibility:

☒ Visible

☐ Hidden

☐ Internal

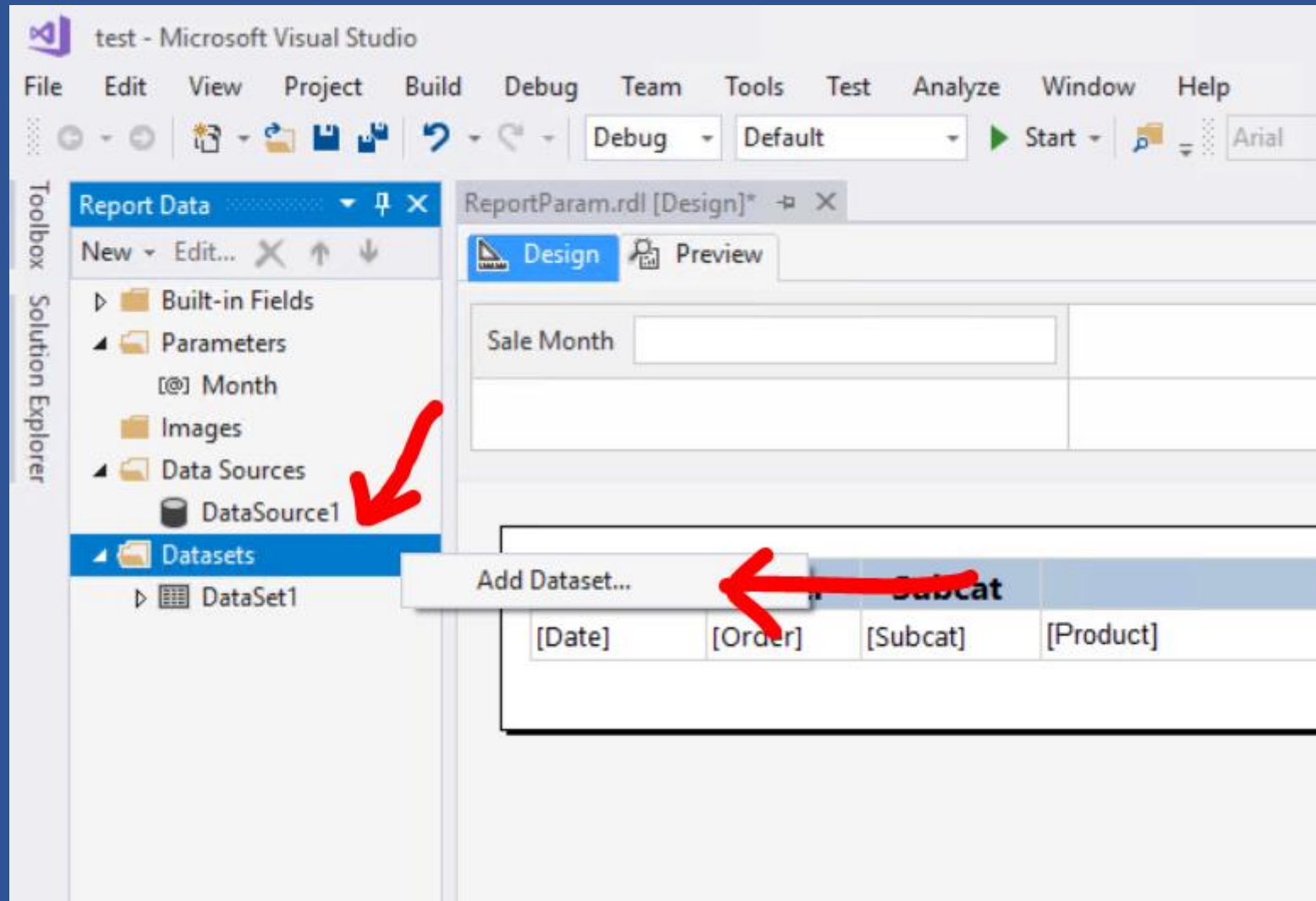
Help OK Cancel

Create Parameter with Query

The screenshot shows the SSRS report designer interface. A dropdown menu for the 'Sub Cat' parameter is open, displaying a list of items with checkboxes. The 'Caps' and 'Gloves' items are selected. The background report table is partially visible, showing columns for Date, Product, Qty, and Line Total.

Date	Product	Qty	Line Total
28-Jan-14	Full-Finger Gloves, L	2	49.387000
28-Jan-14	Full-Finger Gloves, M	1	24.693500
28-Jan-14	Full-Finger Gloves, S	1	24.693500
29-Jan-14	AWC Logo Cap	2	10.788000
29-Jan-14	AWC Logo Cap	7	37.758000
29-Jan-14	Half-Finger Gloves, M	4	58.776000
29-Jan-14	Half-Finger Gloves, S	4	58.776000
29-Jan-14	AWC Logo Cap	7	37.758000
29-Jan-14	Half-Finger Gloves, M	5	73.470000
29-Jan-14	Half-Finger Gloves, S	3	44.082000
29-Jan-14	AWC Logo Cap	4	21.576000
29-Jan-14	Half-Finger Gloves, M	7	102.858000

Add a new additional DataSet for Parameter



Data Source name = DataSourceParamCat

```
1  /* Microsoft SQL Server Reporting Services class
2     Loy Vanich (laploy@gmail.com)
3     0200 Report Param DataSourcePamramCat*/
4  SELECT sub.Name
5  FROM Production.ProductCategory AS cat
6       INNER JOIN Production.ProductSubcategory AS sub
7       ON cat.ProductCategoryID = sub.ProductCategoryID
8  WHERE (cat.Name = 'Clothing')
9  ORDER BY sub.Name
10
```

```
SELECT sub.Name
FROM Production.ProductCategory AS cat
INNER JOIN Production.ProductSubcategory AS sub ON cat.ProductCategoryID =
sub.ProductCategoryID
WHERE (cat.Name = 'Clothing')
ORDER BY sub.Name
```

Data Source Dialog box

Choose a data source and create a query.

Name:

DataSetParamCat

☐ Use a shared dataset.

☒ Use a dataset embedded in my report.

Data source:

DataSource1 ▼ New...

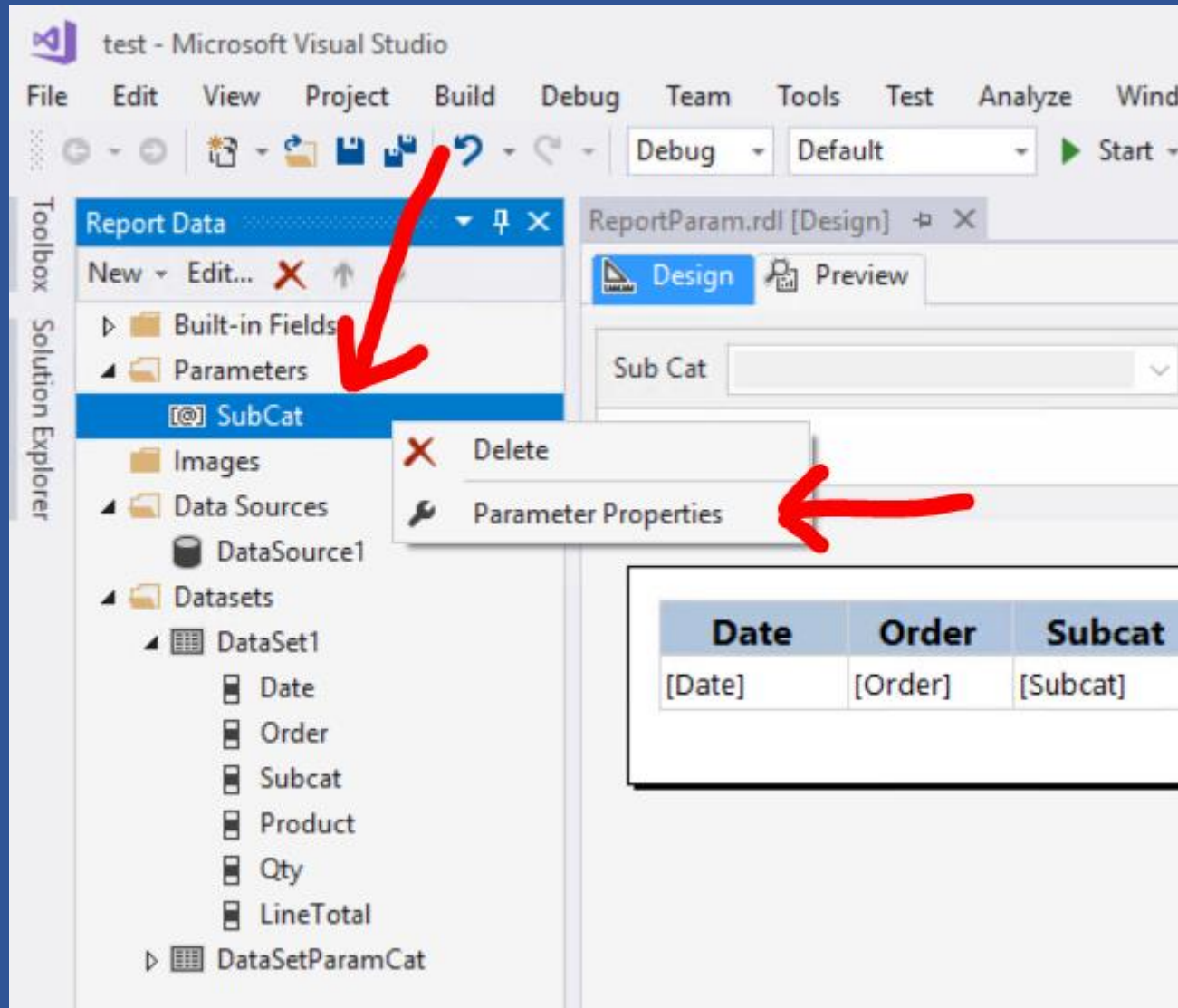
Query type:

☒ Text ☐ Table ☐ Stored Procedure

Query:

```
SELECT    sub.Name
FROM      Production.ProductCategory AS cat INNER JOIN
          Production.ProductSubcategory AS sub ON cat.ProductCategoryID =
          sub.ProductCategoryID
WHERE     (cat.Name = 'Clothing')
ORDER BY sub.Name
```


Right-click “SubCat” / Parameter Properties



General / Allow multiple value

The screenshot shows the 'Report Parameter Properties' dialog box. The 'General' tab is selected in the left-hand pane. The main area contains the following fields and options:

- Name:** SubCat
- Prompt:** Sub Cat
- Data type:** Text (dropdown menu)
- ☐ Allow blank value ("")
- ☐ Allow null value
- ☒ Allow multiple values
- Select parameter visibility:**
 - ☒ Visible
 - ☐ Hidden
 - ☐ Internal

At the bottom, there are 'Help', 'OK', and 'Cancel' buttons. Two red arrows are drawn on the image: one pointing to the 'General' tab and another pointing to the 'Allow multiple values' checkbox.

Available values

Report Parameter Properties

General
Available Values
Default Values
Advanced

Choose the available values for this parameter.

Select from one of the following options:

☐ None
☐ Specify values
☒ Get values from a query

Dataset: (Warning: Possible performance impact)
DataSetParamCat

Value field:
Name

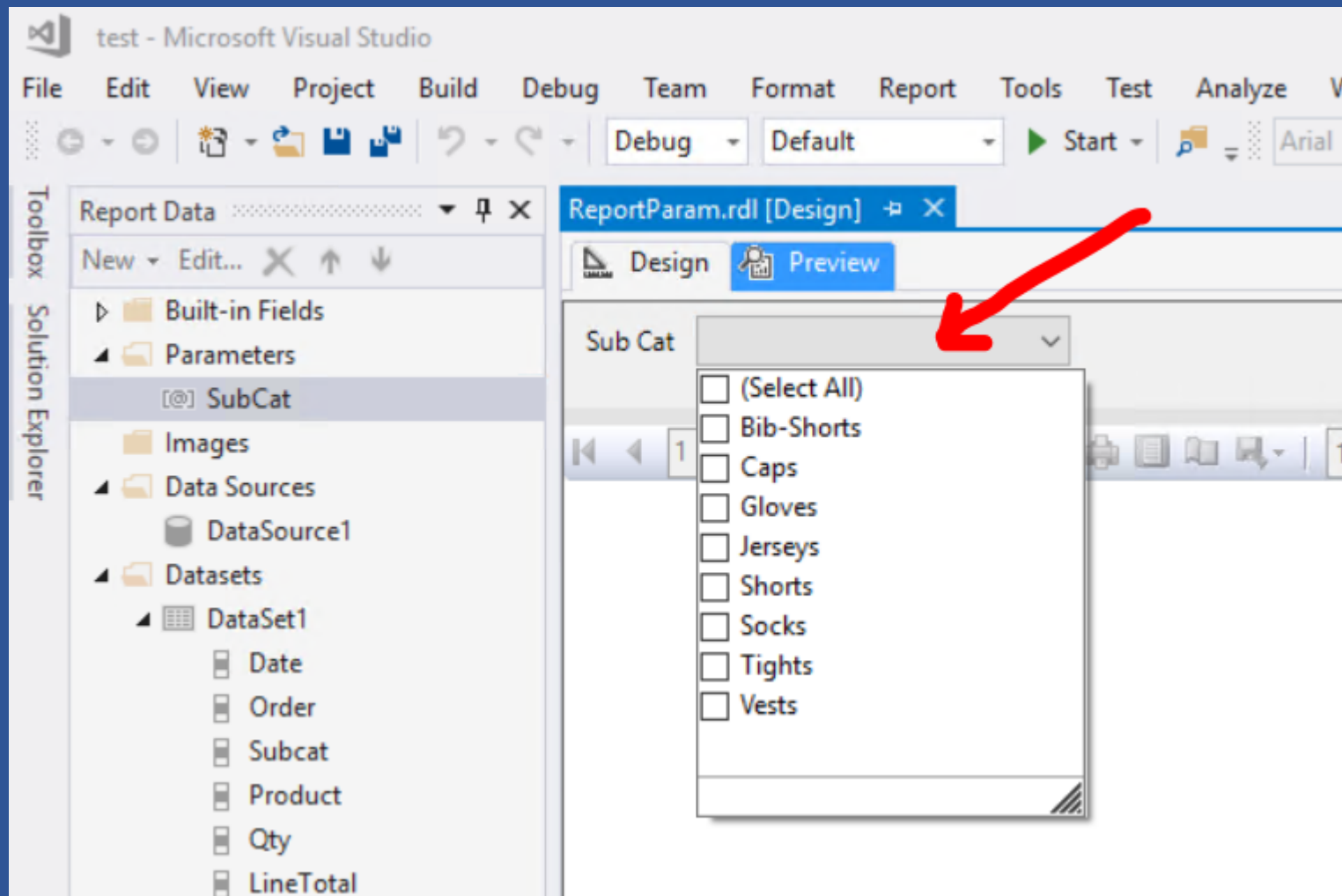
Label field:
Name

Help OK Cancel

Change Report's main DataSource to this query

```
1  -- Microsoft SQL Server Reporting Services class 2018
2  -- Loy Vanich (laploy@gmail.com)
3  -- 0200 Main query DataSource param cat
4  SELECT
5      soh.OrderDate AS [Date],
6      soh.SalesOrderNumber AS [Order],
7      pps.Name AS Subcat, pp.Name as Product,
8      SUM(sd.OrderQty) AS Qty,
9      SUM(sd.LineTotal) AS LineTotal
10 FROM Sales.SalesPerson sp
11     INNER JOIN Sales.SalesOrderHeader AS soh
12         ON sp.BusinessEntityID = soh.SalesPersonID
13     INNER JOIN Sales.SalesOrderDetail AS sd
14         ON sd.SalesOrderID = soh.SalesOrderID
15     INNER JOIN Production.Product AS pp
16         ON sd.ProductID = pp.ProductID
17     INNER JOIN Production.ProductSubcategory AS pps
18         ON pp.ProductSubcategoryID = pps.ProductSubcategoryID
19     INNER JOIN Production.ProductCategory AS ppc
20         ON ppc.ProductCategoryID = pps.ProductCategoryID
21 WHERE pps.Name IN (@SubCat)
22     GROUP BY ppc.Name, soh.OrderDate, soh.SalesOrderNumber, pps.Name, pp.Name,
23         soh.SalesPersonID
24 HAVING ppc.Name = 'Clothing'
25 AND (soh.OrderDate BETWEEN '2014-01-01' AND '2014-03-31')
26
```

Preview / Select Sub Cat / View Report



Exercise 0200

Add Report Parameter to filter “Order Quantity”