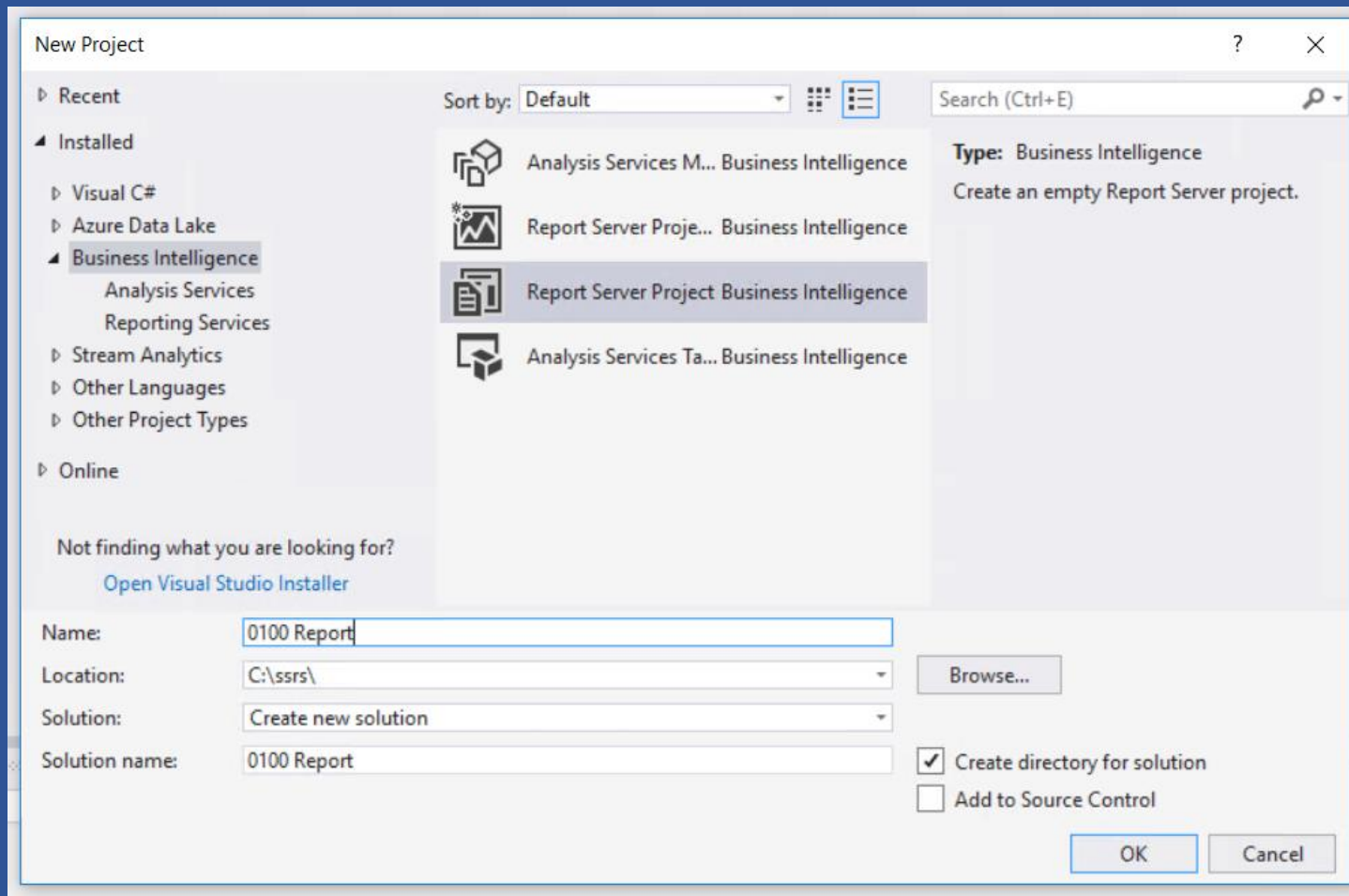
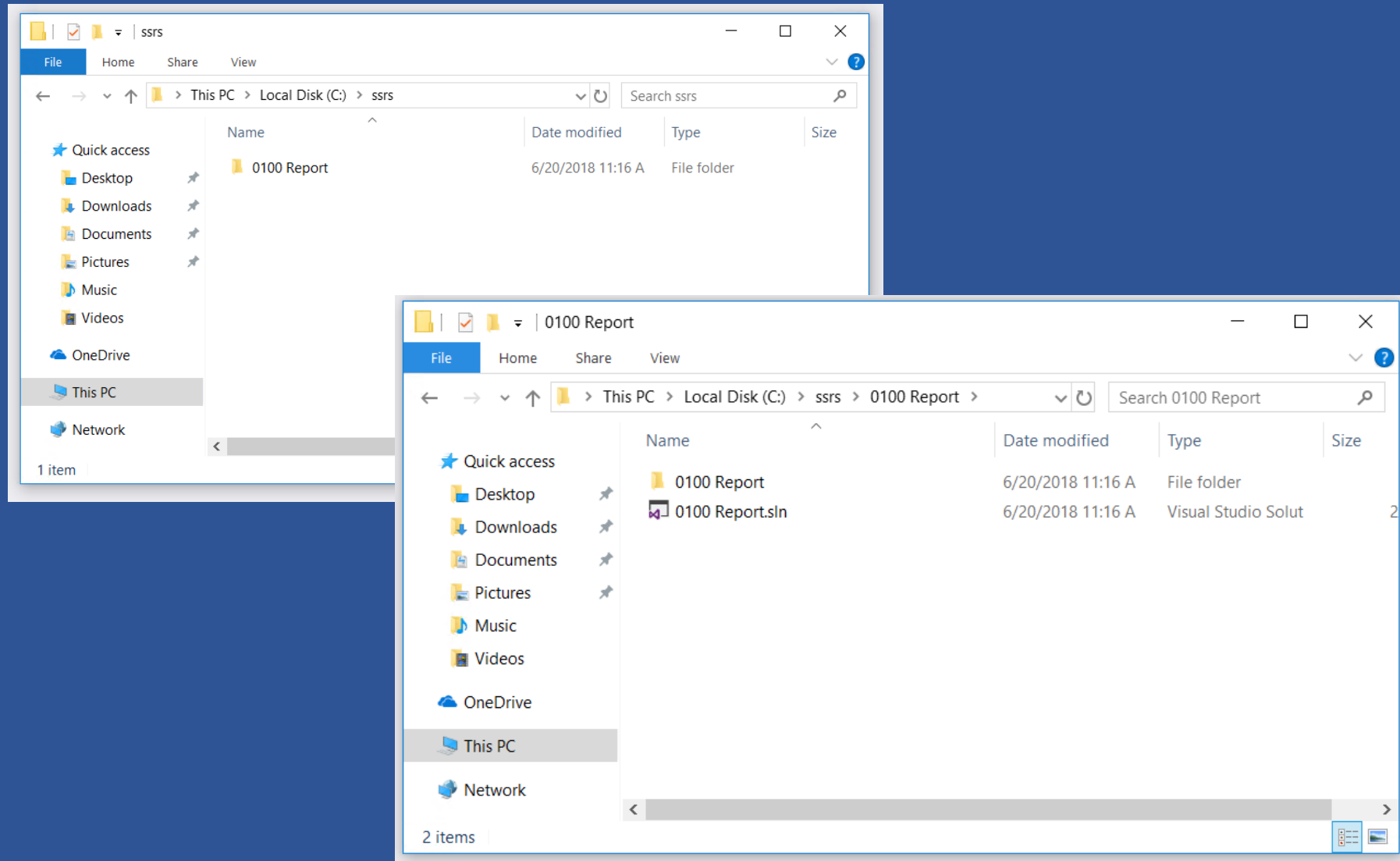


Creating a Report Server Project

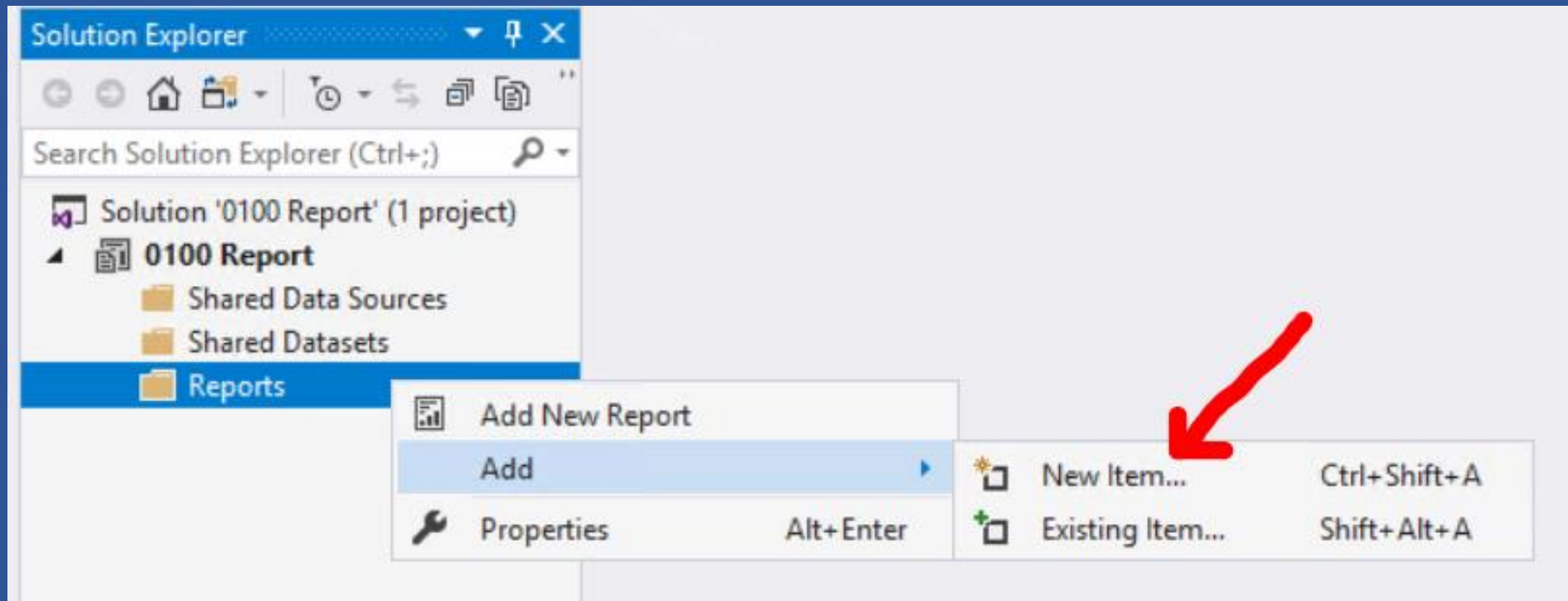
Open MSVS / New / Project



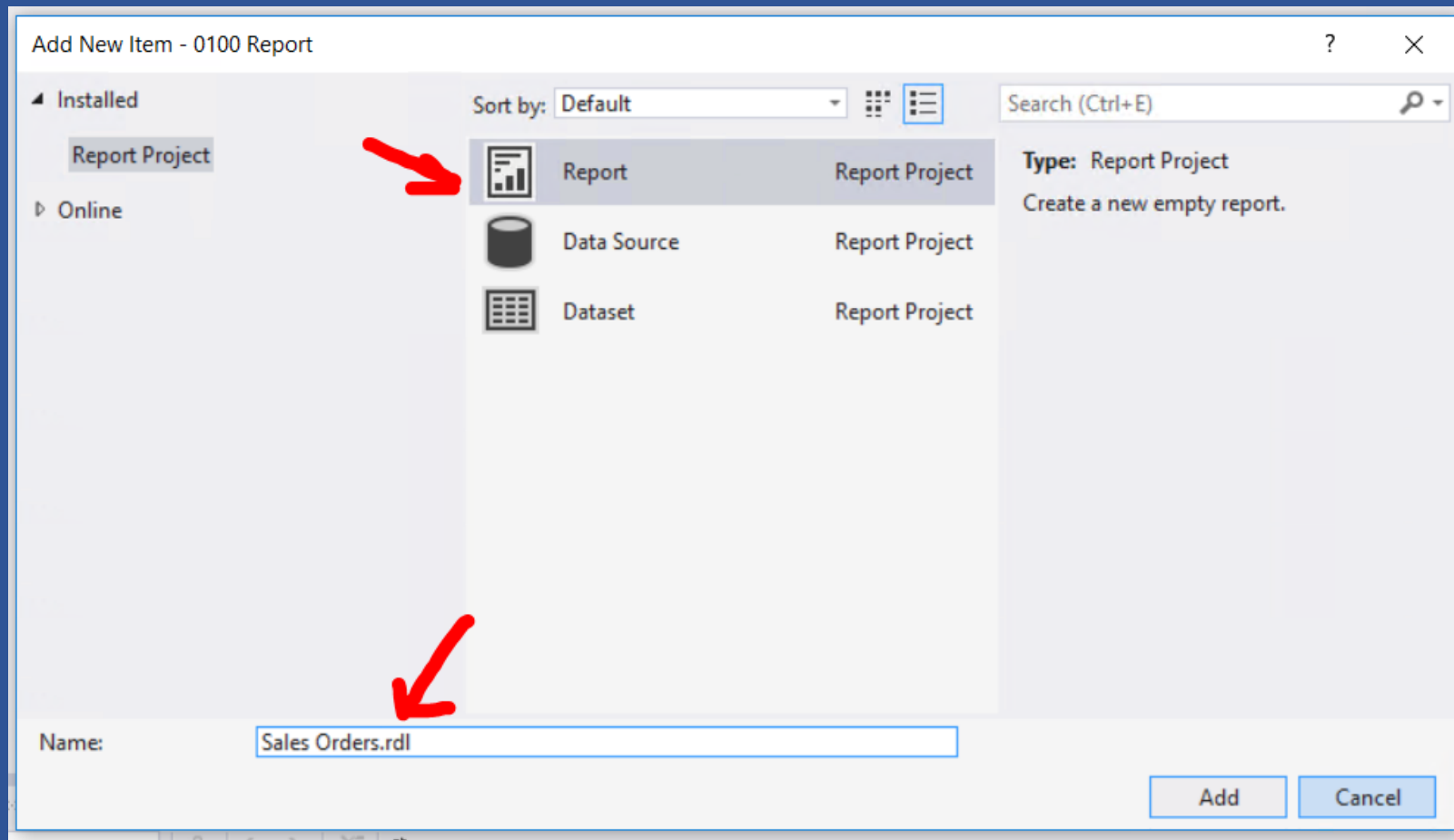
Use Windows Explorer to see project's folder



Right click at Report Icon in Solution Explorer / Add / New Item...



Click Report / Name = Sales Orders.rdl / Add



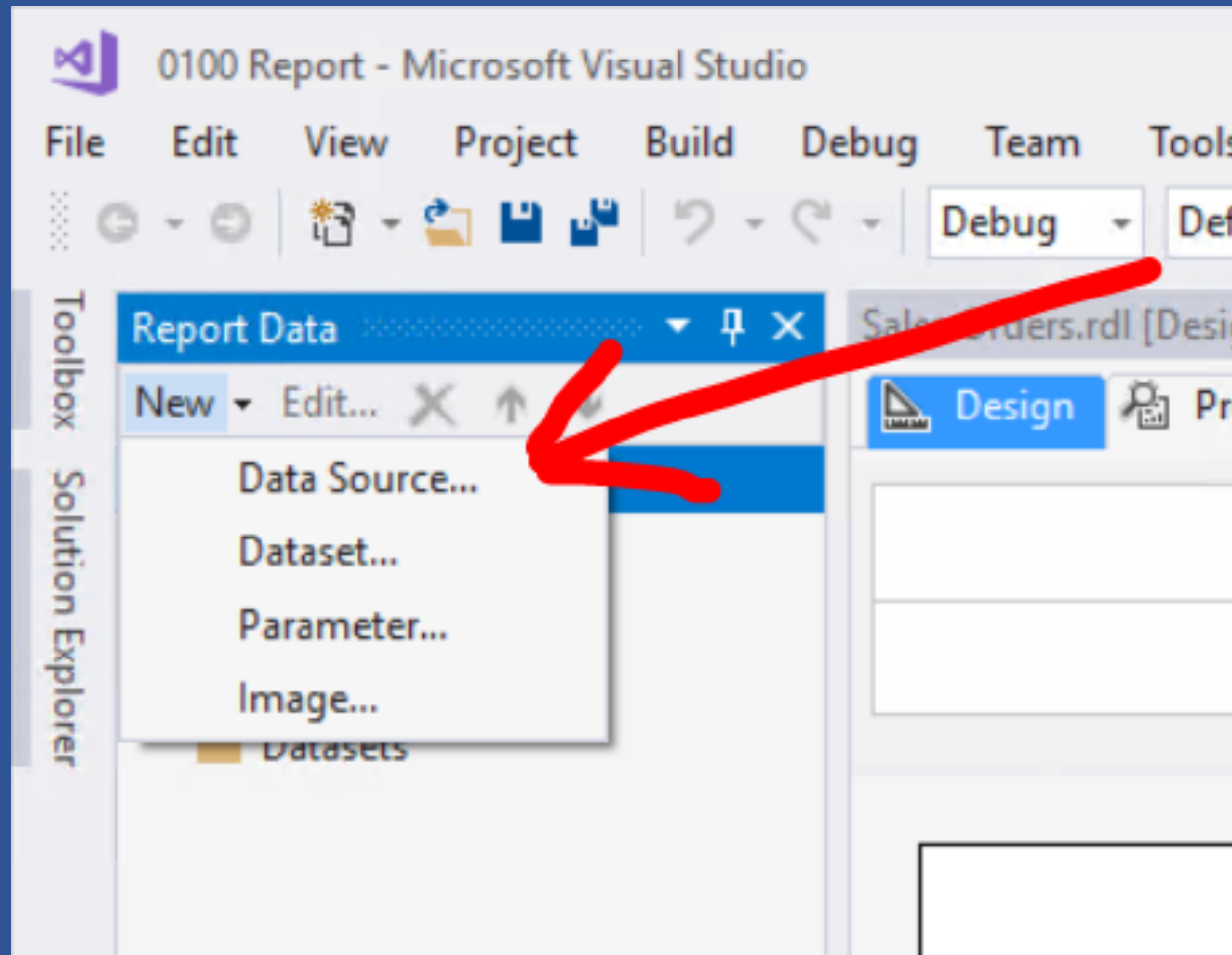
Look at Report Data / Design & Preview / Properties

The screenshot displays the Microsoft Visual Studio IDE with the '0100 Report - Microsoft Visual Studio' window open. The interface is divided into several panes:

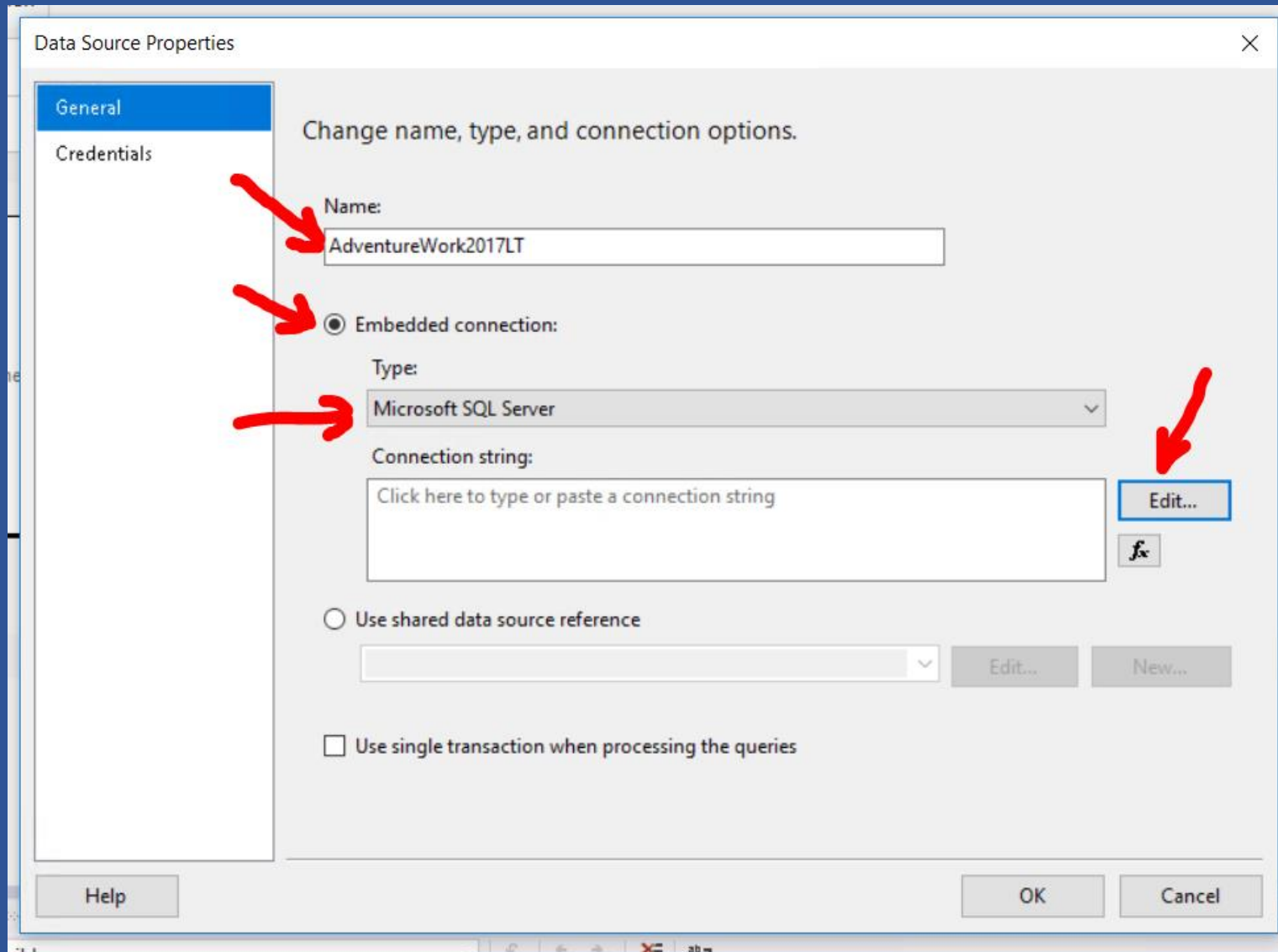
- Toolbox:** Located on the left, it contains categories like 'Built-in Fields', 'Parameters', 'Images', 'Data Sources', and 'Datasets'.
- Report Data:** A pane above the design surface showing the data structure.
- Design Surface:** The central area for designing the report. It shows a table with four columns and two rows. Below the table, there is a large rectangular area with the text: 'To add an item to the report: drag an item from the Toolbox to the design surface, and then drag dataset fields to the item.'
- Row Groups / Column Groups:** Panes below the design surface for defining report groups.
- Output:** A pane at the bottom showing the build output. It displays the message: 'Building the report, Sales Orders.rdl, for SQL Server 2016 Reporting Services. Build complete -- 0 errors, 0 warnings. Build: 1 succeeded or up-to-date, 0 failed, 0 skipped'.
- Properties:** A pane on the right showing the properties of the selected report element. The 'Report' properties are visible, including 'Assemblies', 'Author', 'AutoRefresh', 'BackgroundColor', 'BackgroundImage', 'BorderColor', 'BorderStyle', 'BorderWidth', 'Classes', 'Code', 'Columns', 'ConsumeContainerWhi', 'CustomProperties', 'DataElementName', 'DataElementStyle', 'DataSchema', 'DataTransform', 'DeferVariableEvaluation', 'Description', 'DescriptionLocID', 'InitialPageName', 'InteractiveSize', 'Language', 'Margins', 'PageSize', and 'Variables'.

Specifying Connection Information

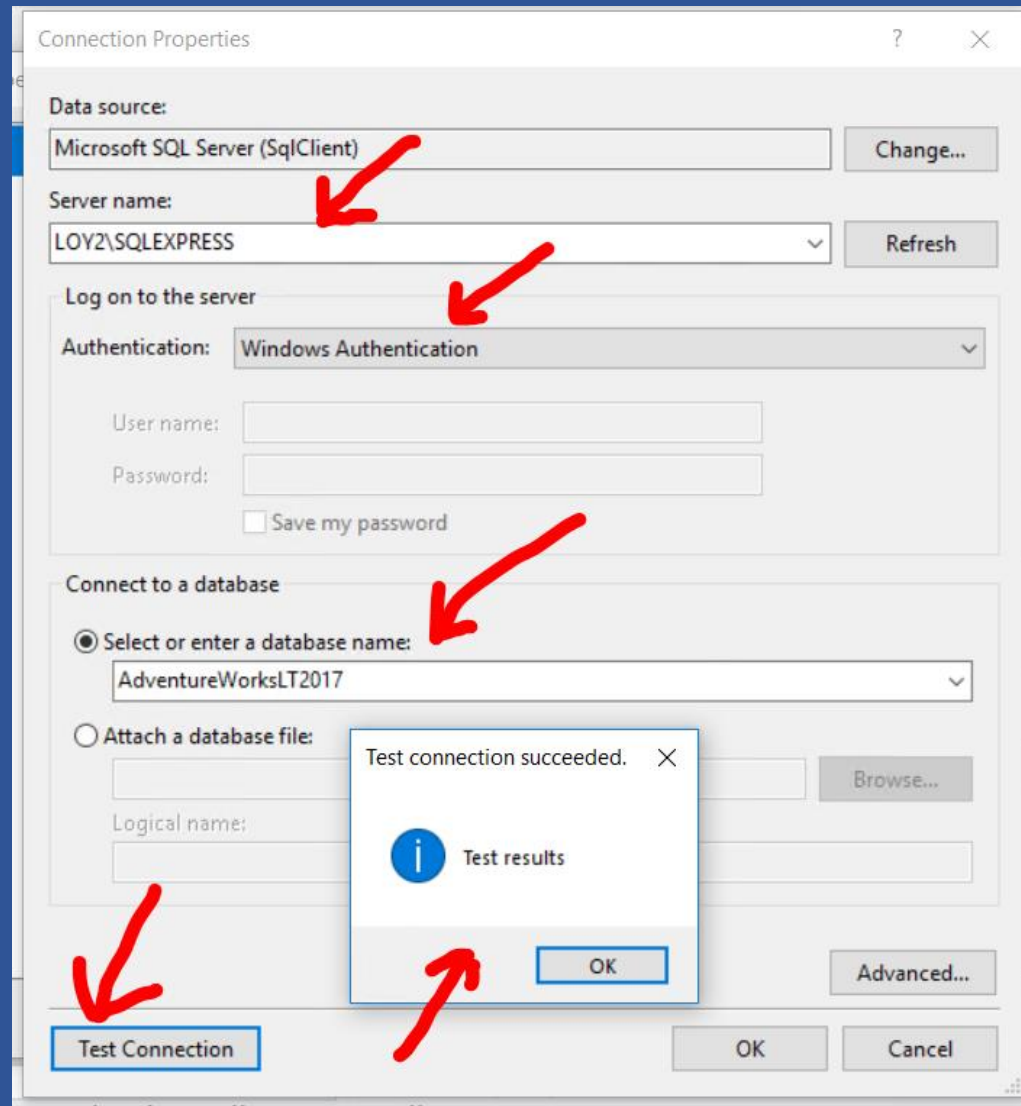
Report Data / New / Data Source



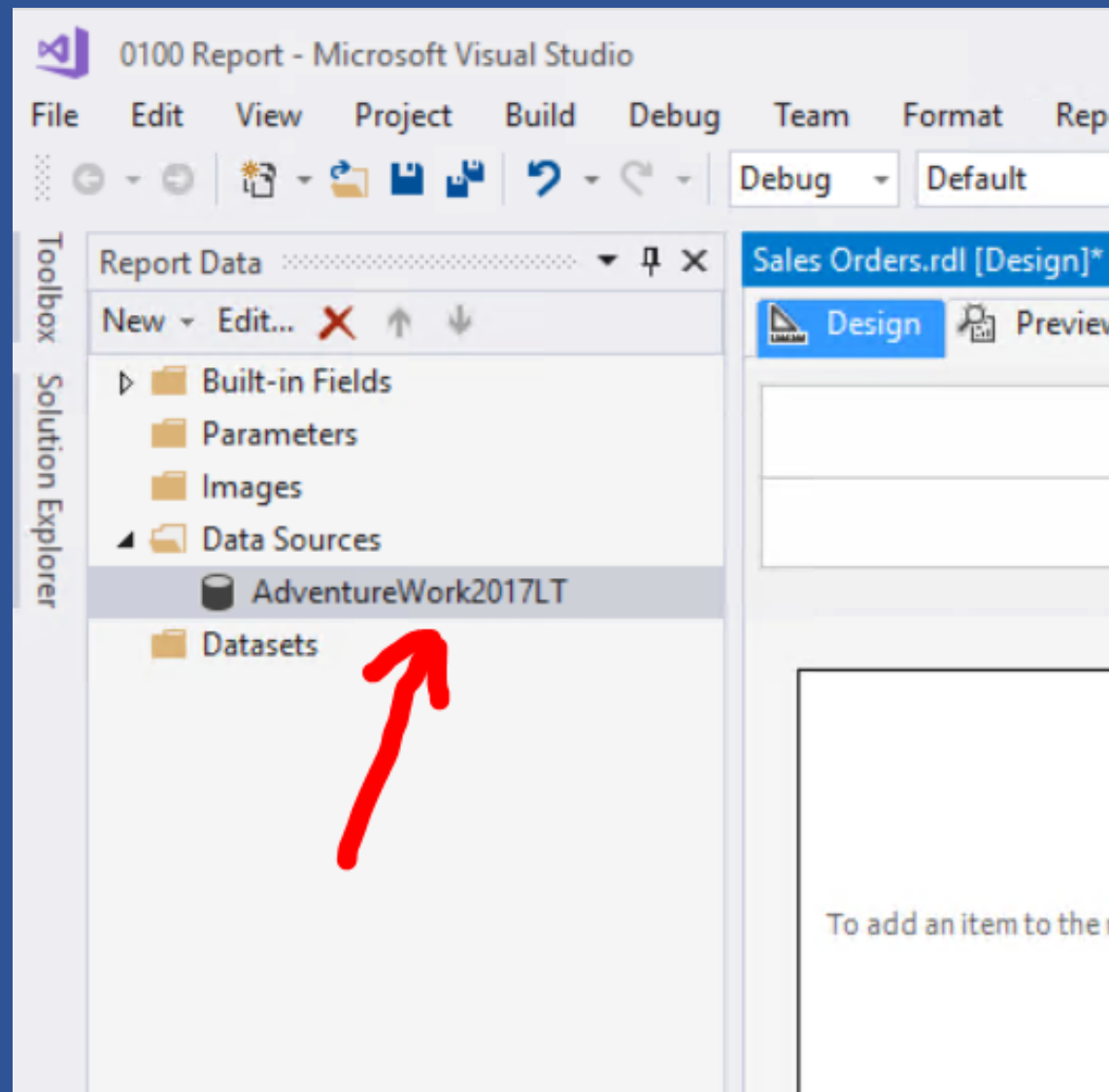
General / Name = AdventureWork2017LT / Embedded / Type = Microsoft SQL / press Edit...



Server name / Authentication / Select database / Test Connection / OK / OK

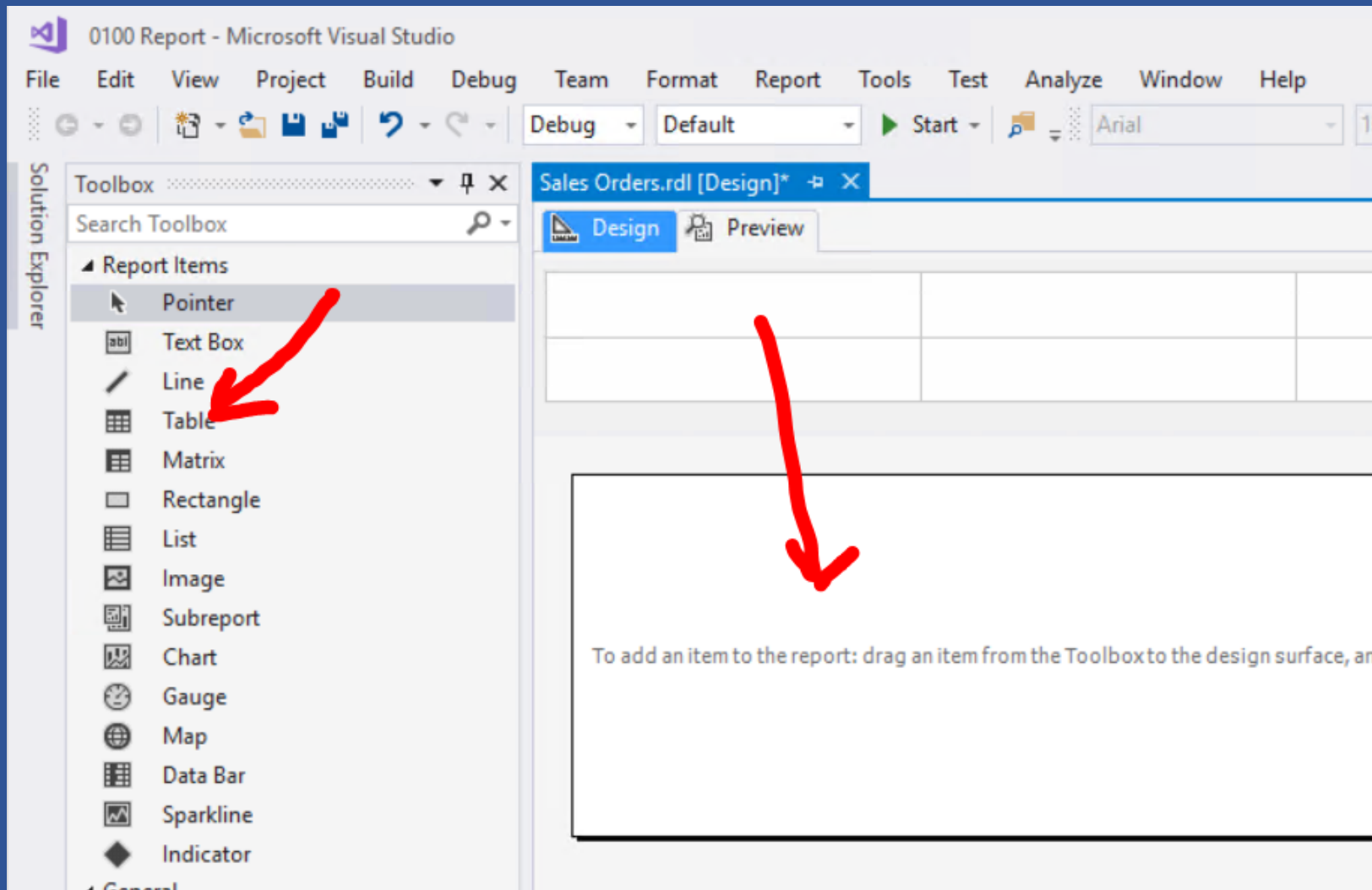


Look at Report data / Data Sources. Make sure u have AdventureWork2017LT



Defining a Dataset for the Table Report

Click Table icon in Toolbox / Click Design surface and drag to draw a table



Dataset Properties / User a dataset embedded / Data Source / Query Designer...

The screenshot shows the 'Dataset Properties' dialog box with the 'Query' tab selected. The 'Name' field is set to 'DataSet1'. Under 'Choose a data source and create a query.', the radio button for 'Use a dataset embedded in my report.' is selected. The 'Data source' dropdown is set to 'AdventureWork2017LT'. The 'Query type' is set to 'Text'. The 'Query' text area is empty. At the bottom, the 'Time out (in seconds)' is set to 0. Red arrows highlight the 'Use a dataset embedded in my report.' radio button, the 'AdventureWork2017LT' data source, and the 'Query Designer...' button.

Dataset Properties

Query

Fields

Options

Filters

Parameters

Choose a data source and create a query.

Name: DataSet1

☐ Use a shared dataset.

☒ Use a dataset embedded in my report.

Data source: AdventureWork2017LT New...

Query type: ☒ Text ☐ Table ☐ Stored Procedure

Query:

Query Designer... Import... Refresh Fields

Time out (in seconds): 0

Help OK Cancel

We want to make this query using query Designer

```
1  -- Microsoft SQL Server Reporting Services Class
2  -- Loy Vanich (laploy@gmail.com)
3  -- 0100 Crate first report
4  SELECT
5      SalesLT.Product.ProductID,
6      SalesLT.Product.Name,
7      SalesLT.ProductCategory.Name AS Category,
8      SalesLT.Product.Color,
9      SalesLT.Product.ListPrice
10 FROM SalesLT.Product
11     INNER JOIN SalesLT.ProductCategory
12     ON SalesLT.Product.ProductCategoryID = SalesLT.ProductCategory.
       ProductCategoryID
```

Write and test query in SSMS

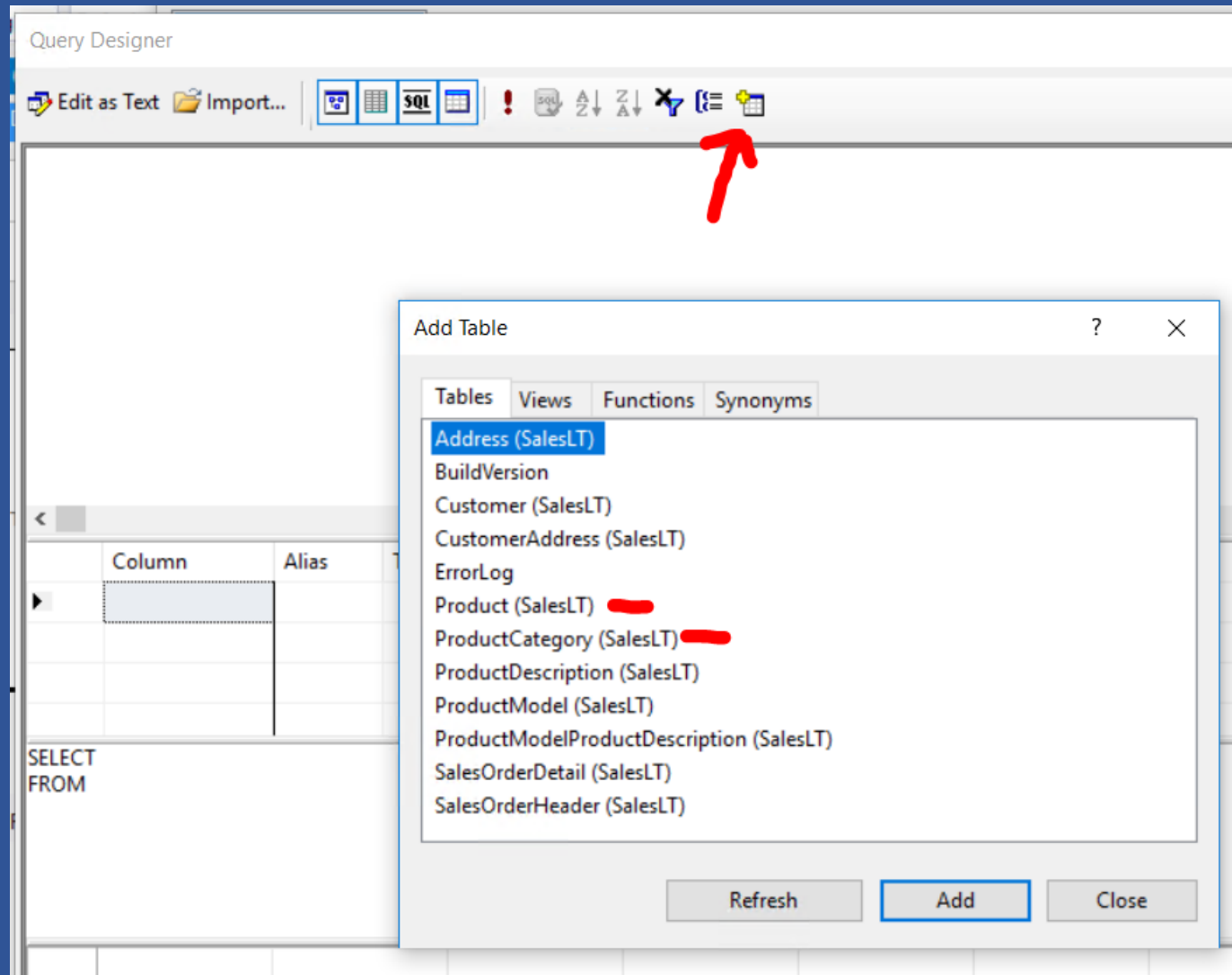
```
1 -- Microsoft SQL Server Reporting Services Class
2 -- Loy Vanich (laploy@gmail.com)
3 -- 0100 Create first report
4 SELECT
5     SalesLT.Product.ProductID,
6     SalesLT.Product.Name,
7     SalesLT.ProductCategory.Name AS Category,
8     SalesLT.Product.Color,
9     SalesLT.Product.ListPrice
10 FROM SalesLT.Product
11     INNER JOIN SalesLT.ProductCategory
12         ON SalesLT.Product.ProductCategoryID =
13            SalesLT.ProductCategory.ProductCategoryID
14
```

133 %

Results Messages

	ProductID	Name	Category	Color	ListPrice
1	771	Mountain-100 Silver, 38	Mountain Bikes	Silver	3399.99
2	772	Mountain-100 Silver, 42	Mountain Bikes	Silver	3399.99
3	773	Mountain-100 Silver, 44	Mountain Bikes	Silver	3399.99
4	774	Mountain-100 Silver, 48	Mountain Bikes	Silver	3399.99
5	775	Mountain-100 Black, 38	Mountain Bikes	Black	3374.99
6	776	Mountain-100 Black, 42	Mountain Bikes	Black	3374.99

Click icon “add table” / add Product , ProductCategory



Select column ProductID, Name, Color, ListPrice table from product
Select column Name from table ProductCategory

Query Designer

Product (SalesLT)

- ☐ * (All Columns)
- ☒ ProductID
- ☒ Name
- ☐ ProductNumber
- ☒ Color
- ☐ StandardCost
- ☒ ListPrice
- ☐ Size

ProductCategory (SalesLT)

- ☐ * (All Columns)
- ☐ ProductCategoryID
- ☐ ParentProductCategoryID
- ☒ Name
- ☐ rowguid
- ☐ ModifiedDate

Column	Alias	Table	Outp	Sort Type	Sort Order	Filter	Or...	Or...
ProductID		Product (SalesLT)	<input checked="" type="checkbox"/>					
Name		Product (SalesLT)	<input checked="" type="checkbox"/>					
Name	Category	ProductCategory (SalesLT)	<input checked="" type="checkbox"/>					
Color		Product (SalesLT)	<input checked="" type="checkbox"/>					
ListPrice		Product (SalesLT)	<input checked="" type="checkbox"/>					

```
SELECT SalesLT.Product.ProductID, SalesLT.Product.Name, SalesLT.ProductCategory.Name AS Category, SalesLT.Product.Color, SalesLT.Product.ListPrice
FROM SalesLT.Product INNER JOIN
SalesLT.ProductCategory ON SalesLT.Product.ProductCategoryID = SalesLT.ProductCategory.ProductCategoryID
```

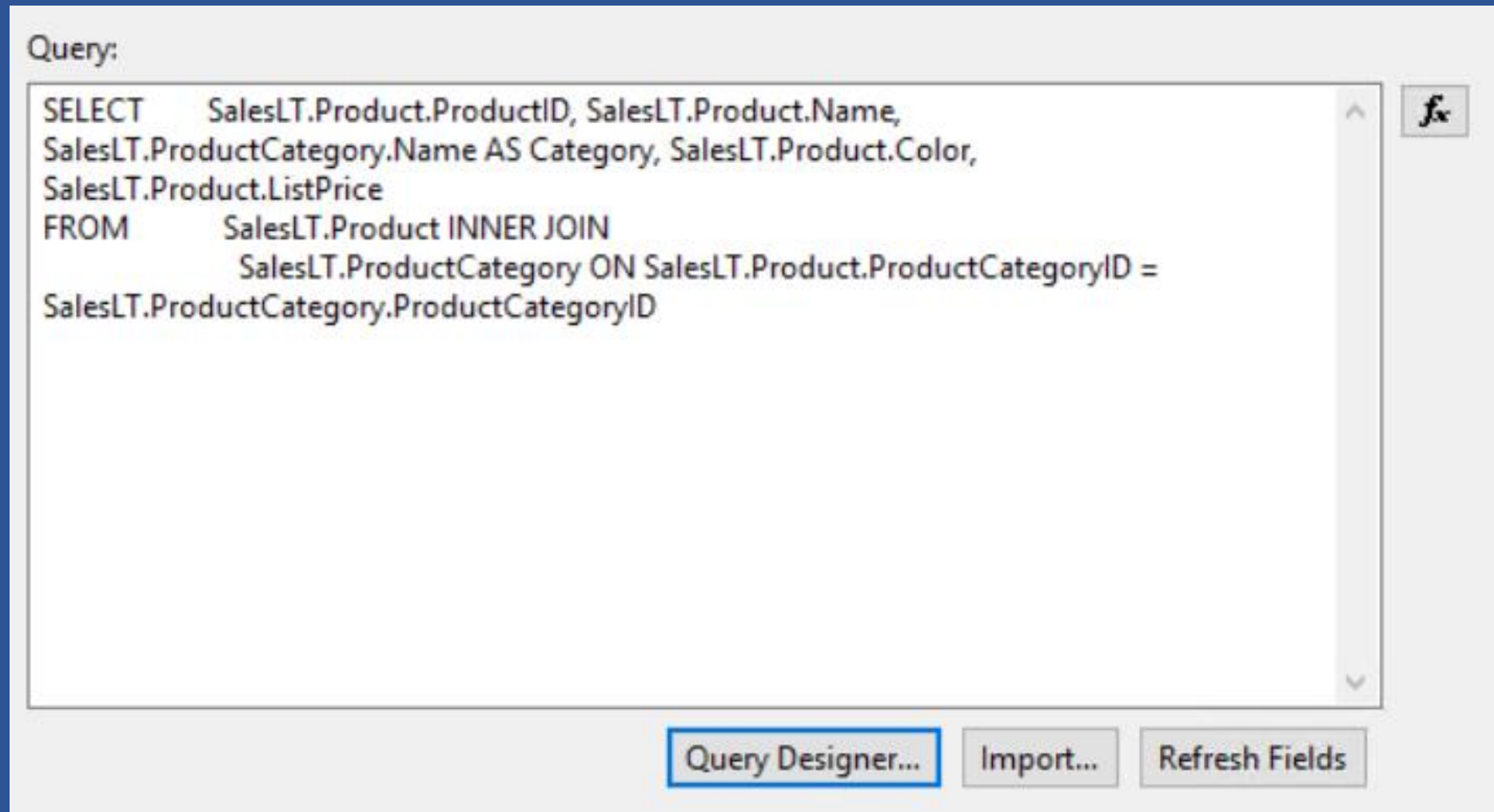
ProductID	Name	Category	Color	ListPrice
771	Mountain-100 Silver, 38	Mountain Bikes	Silver	3399.9900
772	Mountain-100 Silver, 42	Mountain Bikes	Silver	3399.9900

1 of 295 | Cell is Read Only.

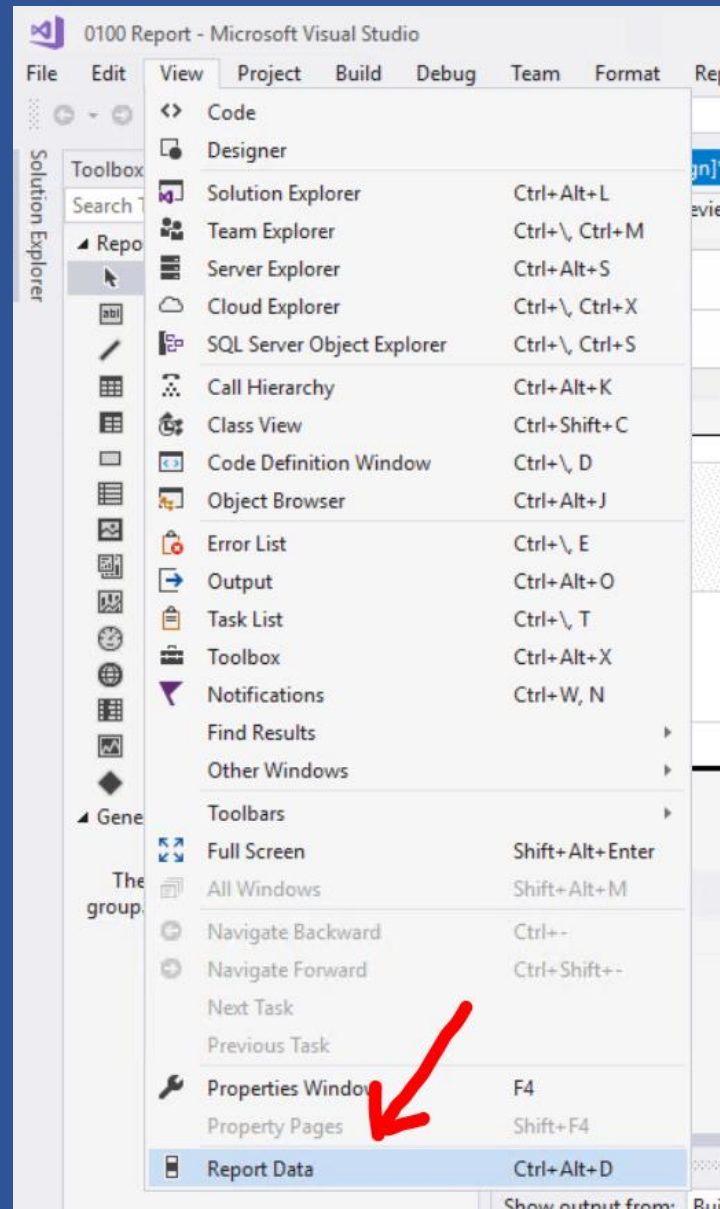
Help OK Cancel

Click OK and you will have Query like so

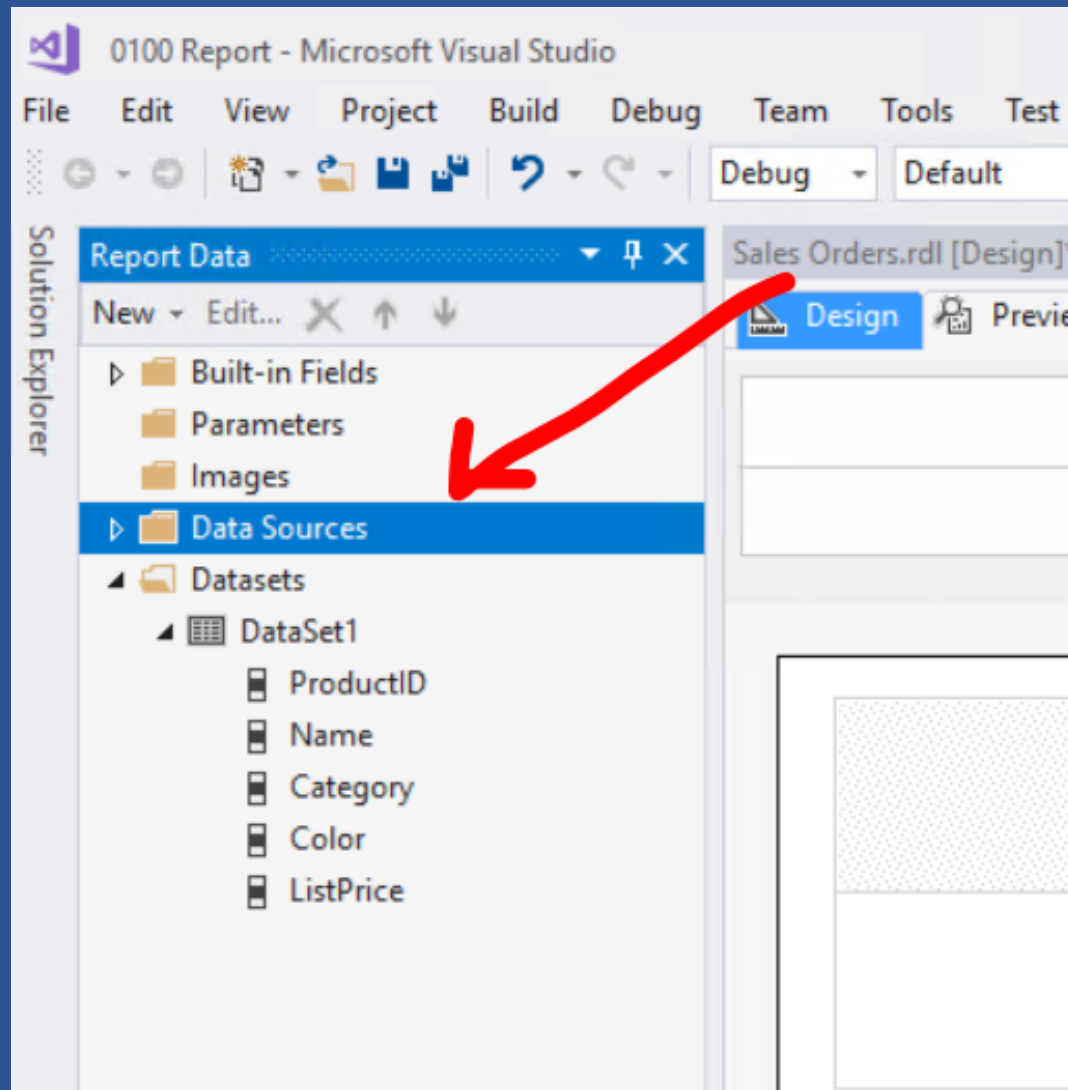
<https://github.com/laploy/SSMS2017/blob/master/0100%20Create%20first%20report.sql>



Click View / Report Data

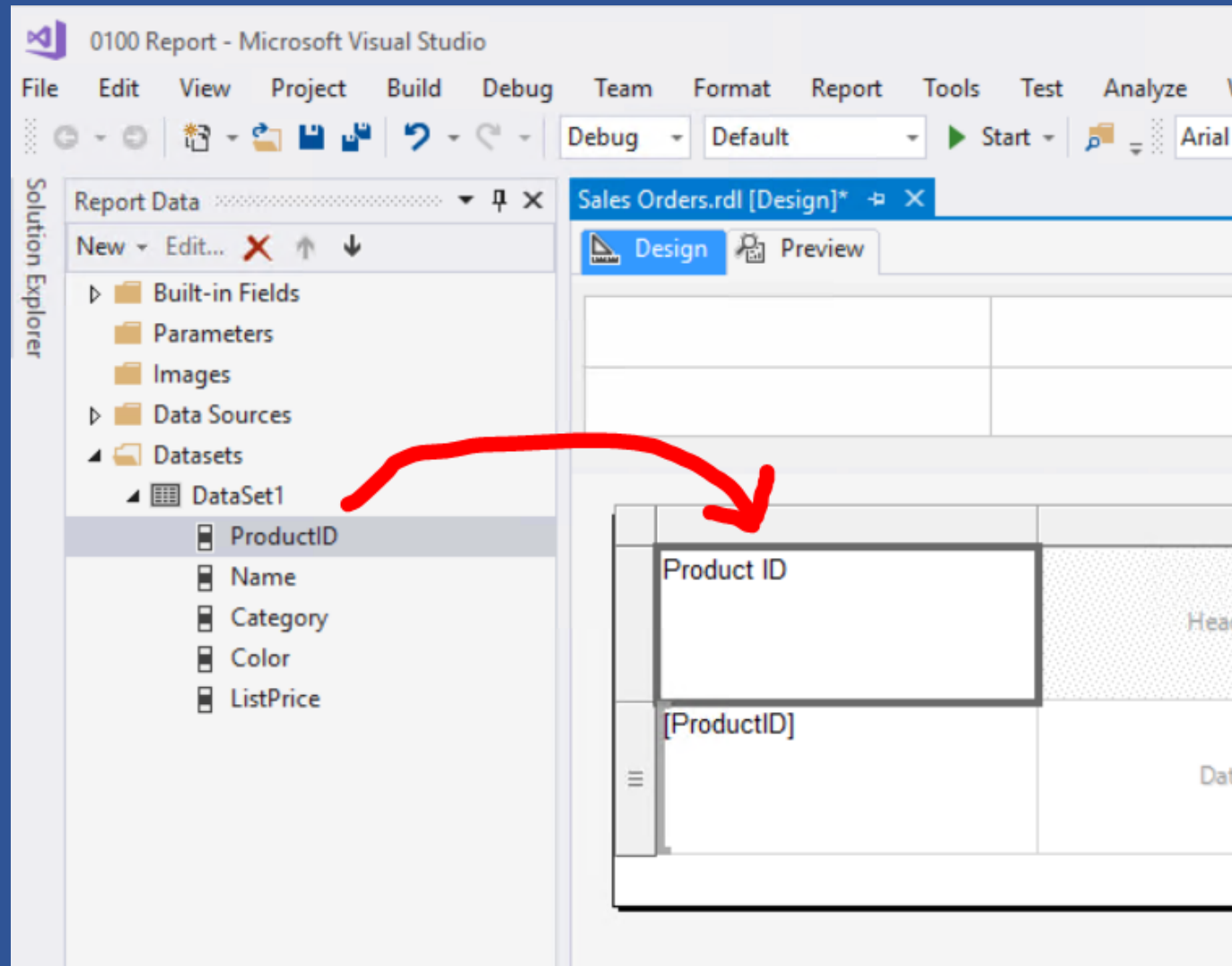


Look in Datasets, you should see “DataSet1” with all selected column



Adding a Table to the Report

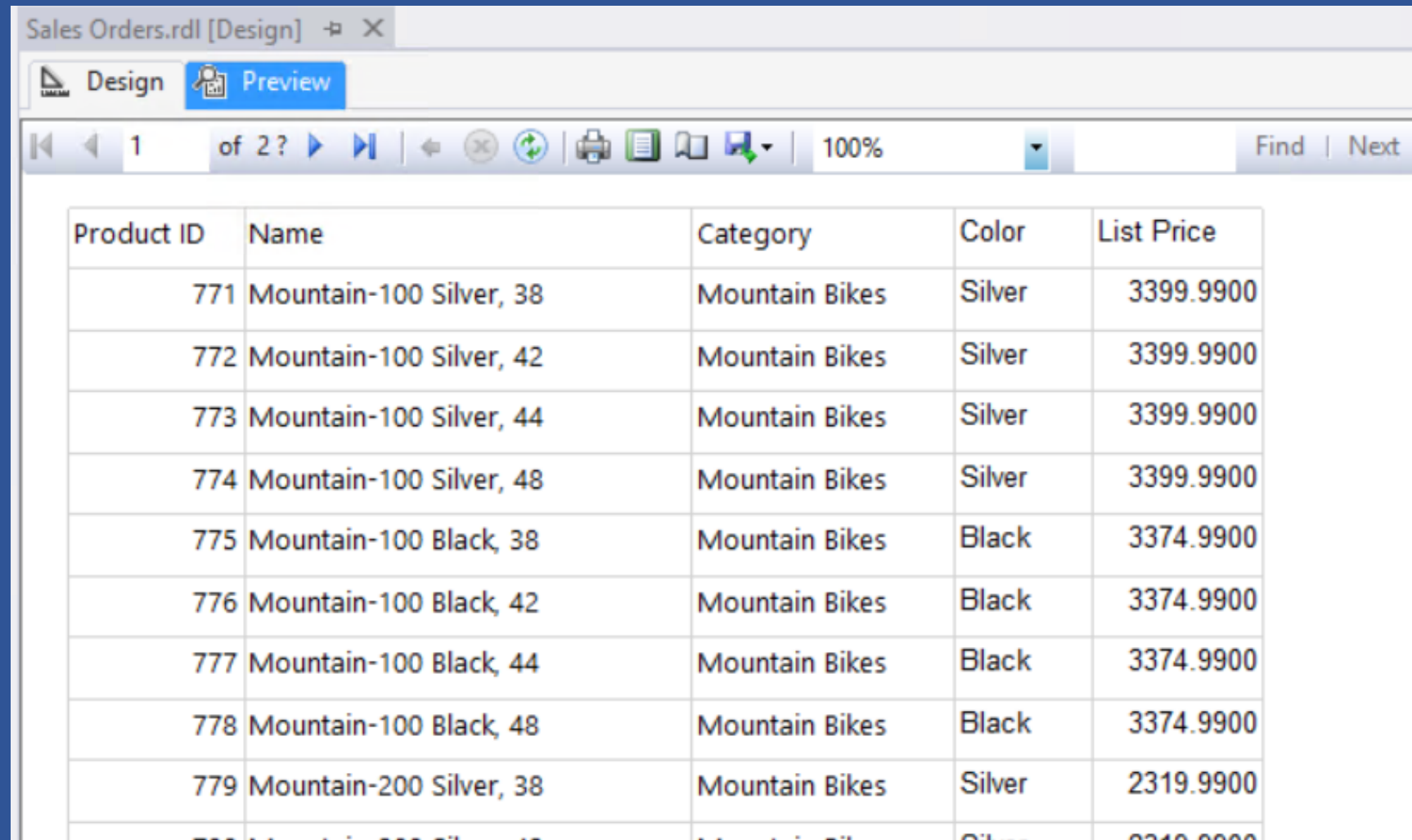
Drag column ProductID and drop into Design



- Add all column to the design
- Adjust height
- Adjust width

Product ID	Name	Category	Color	List Price
[ProductID]	[Name]	[Category]	[Color]	[ListPrice]

Save and preview



Sales Orders.rdl [Design] X

Design Preview

1 of 2 ? 100% Find | Next

Product ID	Name	Category	Color	List Price
771	Mountain-100 Silver, 38	Mountain Bikes	Silver	3399.9900
772	Mountain-100 Silver, 42	Mountain Bikes	Silver	3399.9900
773	Mountain-100 Silver, 44	Mountain Bikes	Silver	3399.9900
774	Mountain-100 Silver, 48	Mountain Bikes	Silver	3399.9900
775	Mountain-100 Black, 38	Mountain Bikes	Black	3374.9900
776	Mountain-100 Black, 42	Mountain Bikes	Black	3374.9900
777	Mountain-100 Black, 44	Mountain Bikes	Black	3374.9900
778	Mountain-100 Black, 48	Mountain Bikes	Black	3374.9900
779	Mountain-200 Silver, 38	Mountain Bikes	Silver	2319.9900
780	Mountain-200 Silver, 42	Mountain Bikes	Silver	2319.9900

- Insert “Report Name”
- Change header background color property
- Increase header font size
- Set header font bold

[&ReportName]				
Product ID	Name	Category	Color	List Price
[ProductID]	[Name]	[Category]	[Color]	[ListPrice]

Sales Orders.rdl [Design] ✕

Design Preview

1 of 9? 100% Find

Sales Orders

Product ID	Name	Category	Color	List Price
771	Mountain-100 Silver, 38	Mountain Bikes	Silver	3399.9900
772	Mountain-100 Silver, 42	Mountain Bikes	Silver	3399.9900
773	Mountain-100 Silver, 44	Mountain Bikes	Silver	3399.9900
774	Mountain-100 Silver, 48	Mountain Bikes	Silver	3399.9900
775	Mountain-100 Black, 38	Mountain Bikes	Black	3374.9900
776	Mountain-100 Black, 42	Mountain Bikes	Black	3374.9900
777	Mountain-100 Black, 44	Mountain Bikes	Black	3374.9900

Session 0100 Excecise

- Create New Project Name = Execies1
- Create new Report name = Employee
- Add DataSource
- Add Dataset using this query

```
SELECT FirstName, LastName, JobTitle,
PhoneNumber, PhoneNumberType, AddressLine1, City
FROM AdventureWorks2017.HumanResources.vEmployee
```

- Create report like so

Employee Report					
First Name	Last Name	Job Title	Phone	Address Line1	City
Ben	Miller	Buyer	151-555-0113	101 Candy Rd.	Redmond
Garrett	Vargas	Sales Representative	922-555-0165	10203 Acom Avenue	Calgary
Gabe	Mares	Production Technician - WC40	310-555-0117	1061 Buskrik Avenue	Edmonds
Reuben	D'sa	Production Supervisor - WC40	191-555-0112	1064 Slow Creek Road	Seattle
Gordon	Hee	Buyer	230-555-0144	108 Lakeside Court	Bellevue
Karan	Khanna	Production Technician - WC60	447-555-0186	1102 Ravenwood	Seattle
François	Ajenstat	Database Administrator	785-555-0110	1144 Paradise Ct.	Issaquah
Sariya	Harnpadoungsataya	Marketing Specialist	399-555-0176	1185 Dallas Drive	Everett
Kirk	Koenigsbauer	Production Technician - WC45	669-555-0150	1220 Bradford Way	Seattle
Kim	Ralls	Stocker	309-555-0129	1226 Shoe St.	Bothell
Michael	Raheem	Research and Development Manager	330-555-2568	1234 Seaside Way	San Francisco