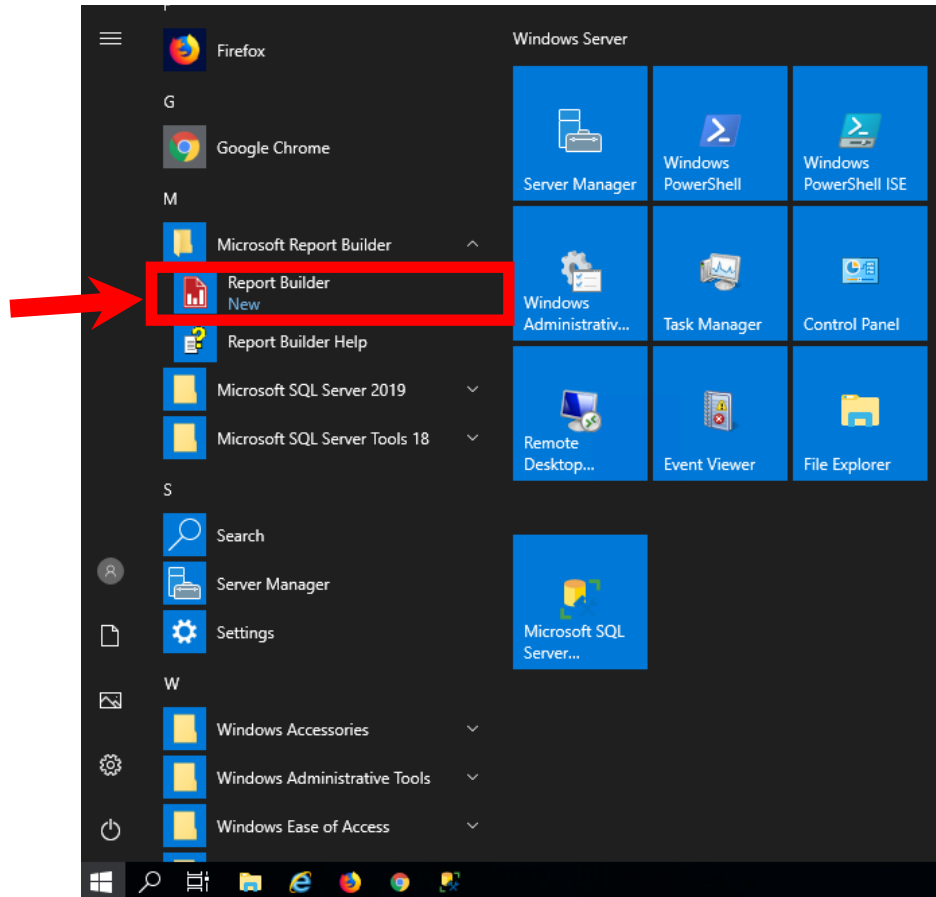
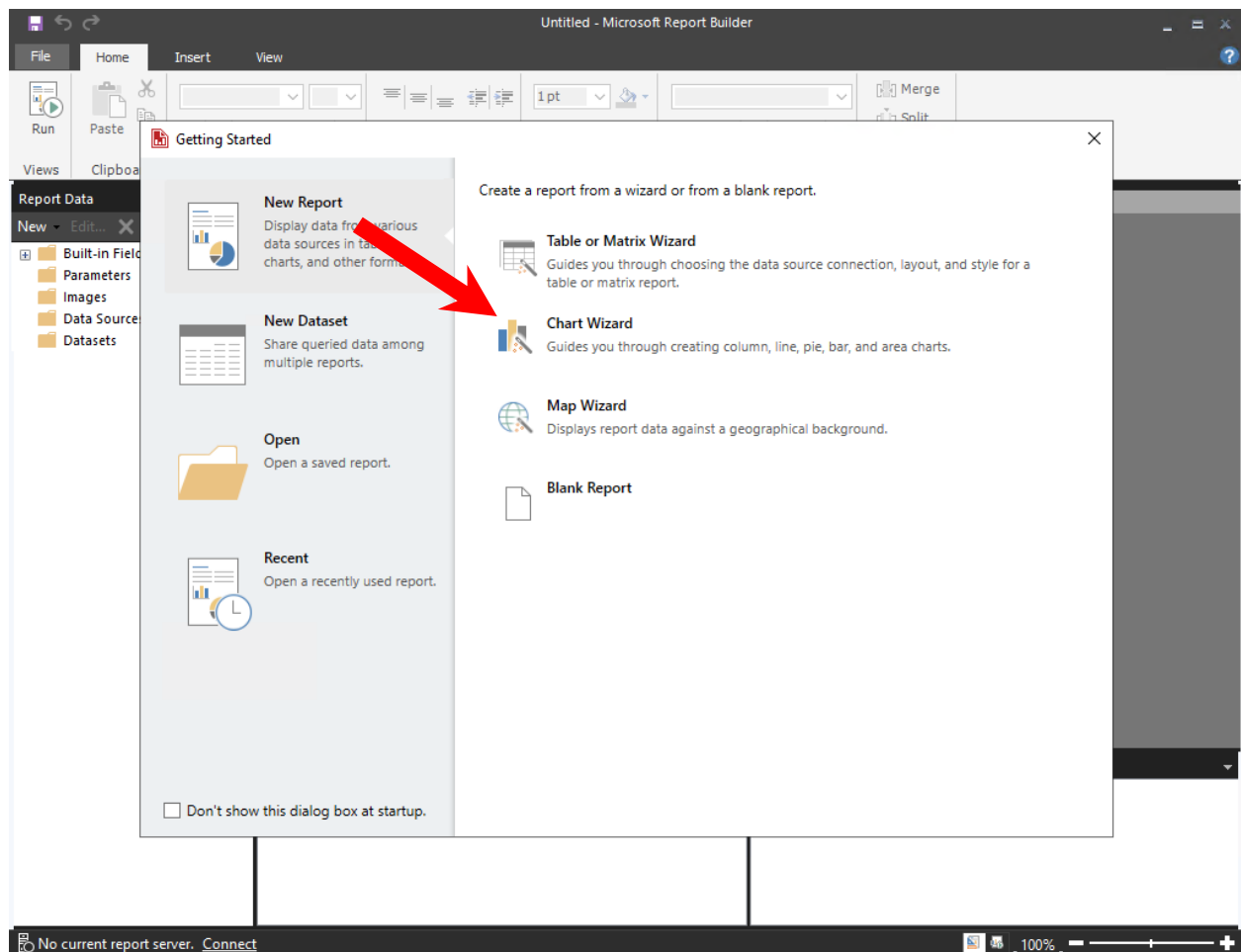


CREATING A BIKESTORES PIE CHART REPORT

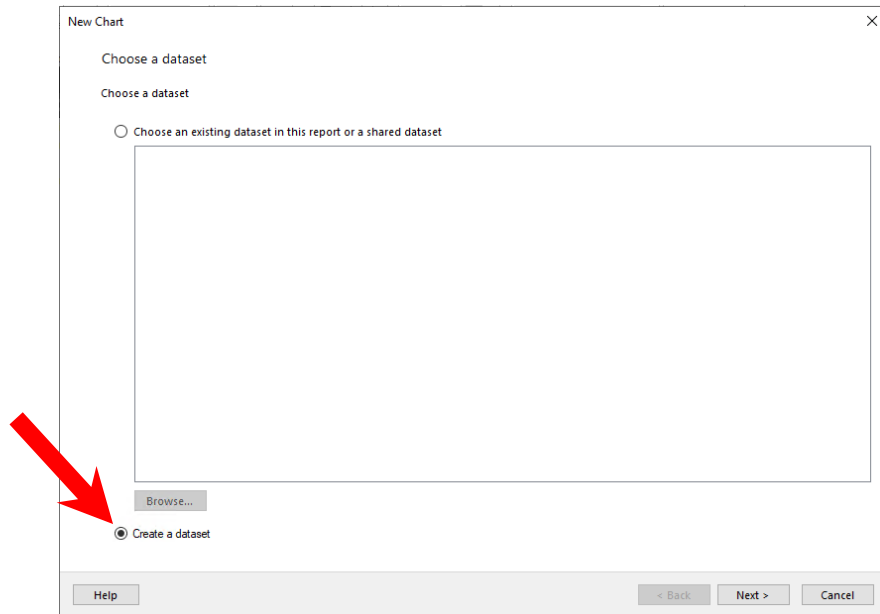
- [1] To start the Microsoft Report Builder application, access the Windows Start menu and select the Microsoft Report Builder folder.



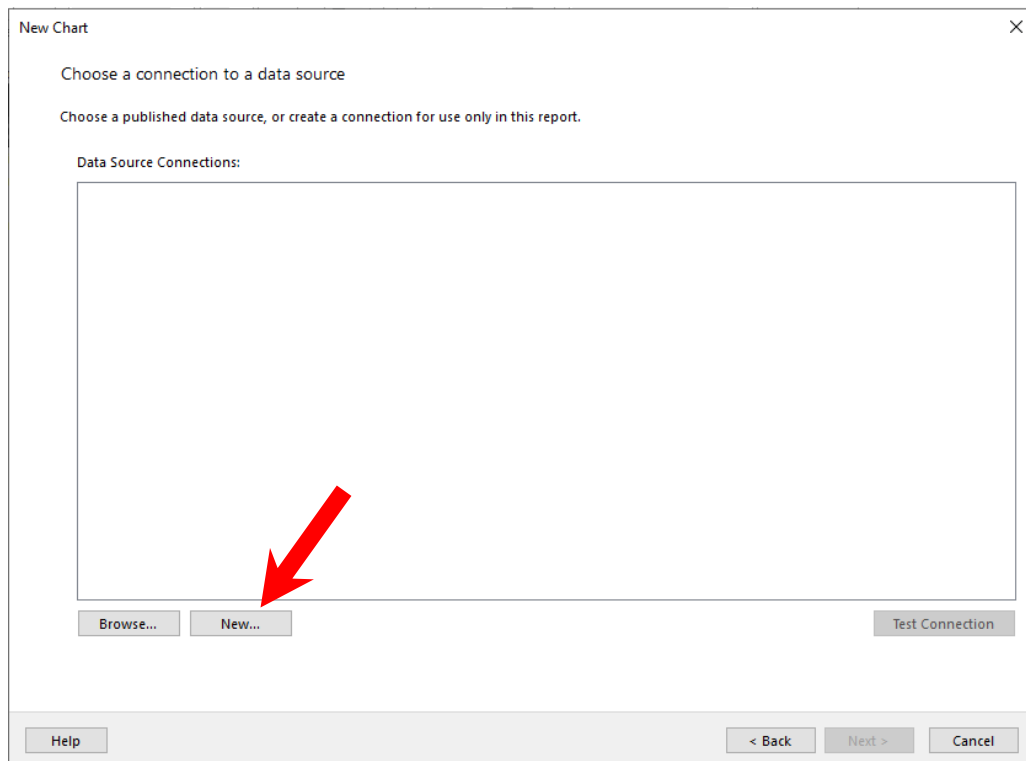
- [2] You'll then see the *Getting Started* screen in Microsoft Report Builder. Click on the *Chart Wizard* option.



- [3] You'll be presented with the *New Chart* screen. Click on the “*Create a dataset*” option and click the **NEXT** button to continue.



- [4] You will then see a screen asking for you the “*Choose a connection to a data source.*” Click on the **NEW** button.



- [5] You will then see the *Data Source Properties* screen. You can leave the Name value as is or provide a preferred name. In the Connection String field, enter the following value:

Data Source=localhost\SQLEXPRESS

Click on the **TEST CONNECTION** to verify the connection string. You should receive a “*Connection created successfully*” message. Click on the **OK** button close out the prompt. Then click on the **OK** button on the *Data Source Properties* screen to complete the data source specification.

Data Source Properties

General

Credentials

Change name, type, and connection options.

Name:
DataSource1

☐ Use a shared connection or report model
☒ Use a connection embedded in my report

Select connection type:
Microsoft SQL Server

Connection string:
Data Source=localhost\SQLEXPRESS

Build...

fx

Test Connection

☐ Use single transaction when processing the queries

Help OK Cancel

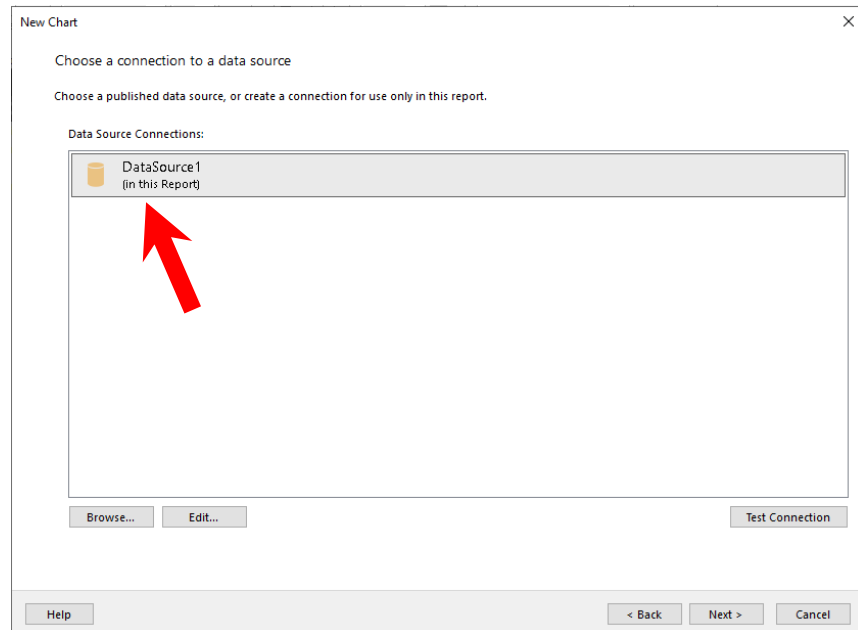
Test Connection Result



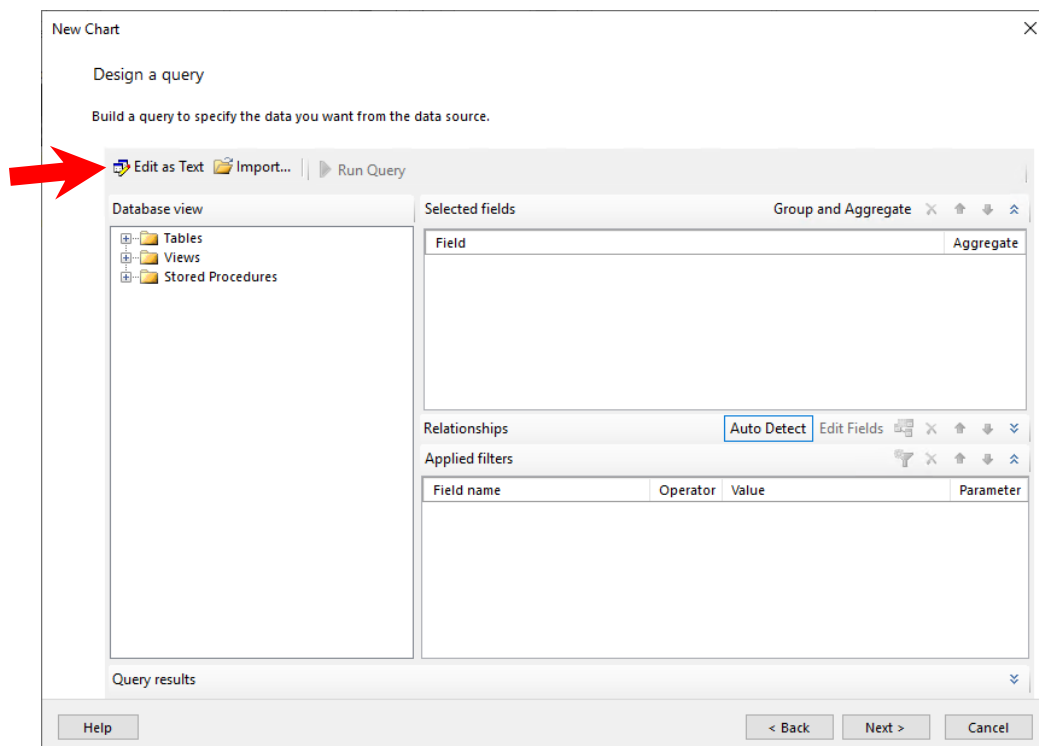
Connection created successfully.

OK

- [6] You'll be returned to the “*Choose a connection to a data source screen.*” Make sure the new data source entry is highlighted and then click on the **NEXT** button to continue.



- [7] You'll then see the “*Design a query*” screen. Click on the “*Edit as Text*” option in the top left portion of the screen.



[8] In the provided text field area, enter the following SQL statements:

```
USE BikeStores;
```

```
WITH BikeStores_Bike_Category_Sales_CTE (BikeCategoryName, BikeSales, BikesSold) AS
```

```
(
SELECT category_name,
(SELECT SUM(SOI1.quantity*SOI1.list_price)
FROM Sales.Order_Items SOI1 INNER JOIN Production.Products PR1
ON SOI1.product_id = PR1.product_id
WHERE PR1.category_id = CT.category_id) AS TotalSales,
(SELECT SUM(SOI2.quantity)
FROM Sales.Order_Items SOI2 INNER JOIN Production.Products PR2
ON SOI2.product_id = PR2.product_id
WHERE PR2.category_id = CT.category_id) AS BikesSold
FROM Production.Categories CT
)
```

```
SELECT BikeCategoryName, BikeSales
FROM BikeStores_Bike_Category_Sales_CTE
ORDER BY BikeCategoryName;
```

New Chart

Design a query


Build a query to specify the data you want from the data source.

Edit as Text Import... Command type: Text

```
USE BikeStores;

WITH BikeStores_Bike_Category_Sales_CTE (BikeCategoryName, BikeSales, BikesSold) AS
(
SELECT category_name,
(SELECT SUM(SOI1.quantity*SOI1.list_price)
FROM Sales.Order_Items SOI1 INNER JOIN Production.Products PR1
ON SOI1.product_id = PR1.product_id
WHERE PR1.category_id = CT.category_id) AS TotalSales,
```





Help < Back Next > Cancel

- [9] Click on the exclamation point () to execute and test the entered SQL code. A total of 7 records should be returned from the SQL statements. Then click on the **NEXT** button to continue.

New Chart

Design a query

Build a query to specify the data you want from the data source.

 Edit as Text  Import... ||   Command type: Text

```
USE BikeStores;  
  
WITH BikeStores_Bike_Category_Sales_CTE (BikeCategoryName, BikeSales, BikesSold) AS  
(  
  SELECT category_name,  
         (SELECT SUM(SOIl.quantity*SOIl.list_price)  
          FROM Sales.Order_Items SOIl INNER JOIN Production.Products PR1  
          ON SOIl.product_id = PR1.product_id  
          WHERE PR1.category_id = CT.category_id) AS TotalSales,  
  FROM Production.Products CT  
)
```

BikeCategoryN...	BikeSales
Children Bicycles	327888.21
Comfort Bicycles	438506.87
Cruisers Bicycles	1109151.04
Cyclocross Bicy...	799874.60
Electric Bikes	1020236.85
Mountain Bikes	3030775.71
Road Bikes	1852555.60

Help < Back Next > Cancel

- [10] You will then see the “*Choose a chart type*” screen. Select the *Pie* option and then click on the **NEXT** button.


New Chart


×


Choose a chart type


Choose a chart type that best displays your data.


Chart type:

 Column
A column chart displays a series as a set of vertical bars grouped by category. Column charts are useful for illustrating comparisons among...

 Line
A line chart displays a series as a set of points connected by a single line. Line charts are used to represent large amounts of data that occ...

 Pie
A pie chart displays value data as percentages of a total. Consider using a pie chart after the data has been aggregated to seven data poi...

 Bar
A bar chart displays data horizontally. It is popular for categorical information, because the categories can be displayed horizontally.

 Area
The area chart displays data contiguously, so it is commonly used to represent data that occurs over a continuous period of time.

☐ Use a stacked chart to display the total value of multiple series.

☐ Use a 100 percent stacked chart to show relative proportions between multiple series.

Help

< Back

Next >

Cancel

- [11] You will then be presented with the “*Arrange fields*” screen. Double-click on the **BikeCategoryName** and **BikeSales** entries in the “*Available fields*” list. The items will automatically populate the “*Categories*” and “*Values*” areas. Click on the **NEXT** button to continue.

New Chart ×

Arrange chart fields

Add data fields to the chart. For most chart types, a field in the Categories list is displayed on the x-axis. A field in the Values list shows aggregated data on the y-axis. A field in the Series list creates a new series in the chart.

Available fields

BikeCategoryName

BikeSales

Series

Categories

BikeCategoryName

Σ Values

Sum(BikeSales)

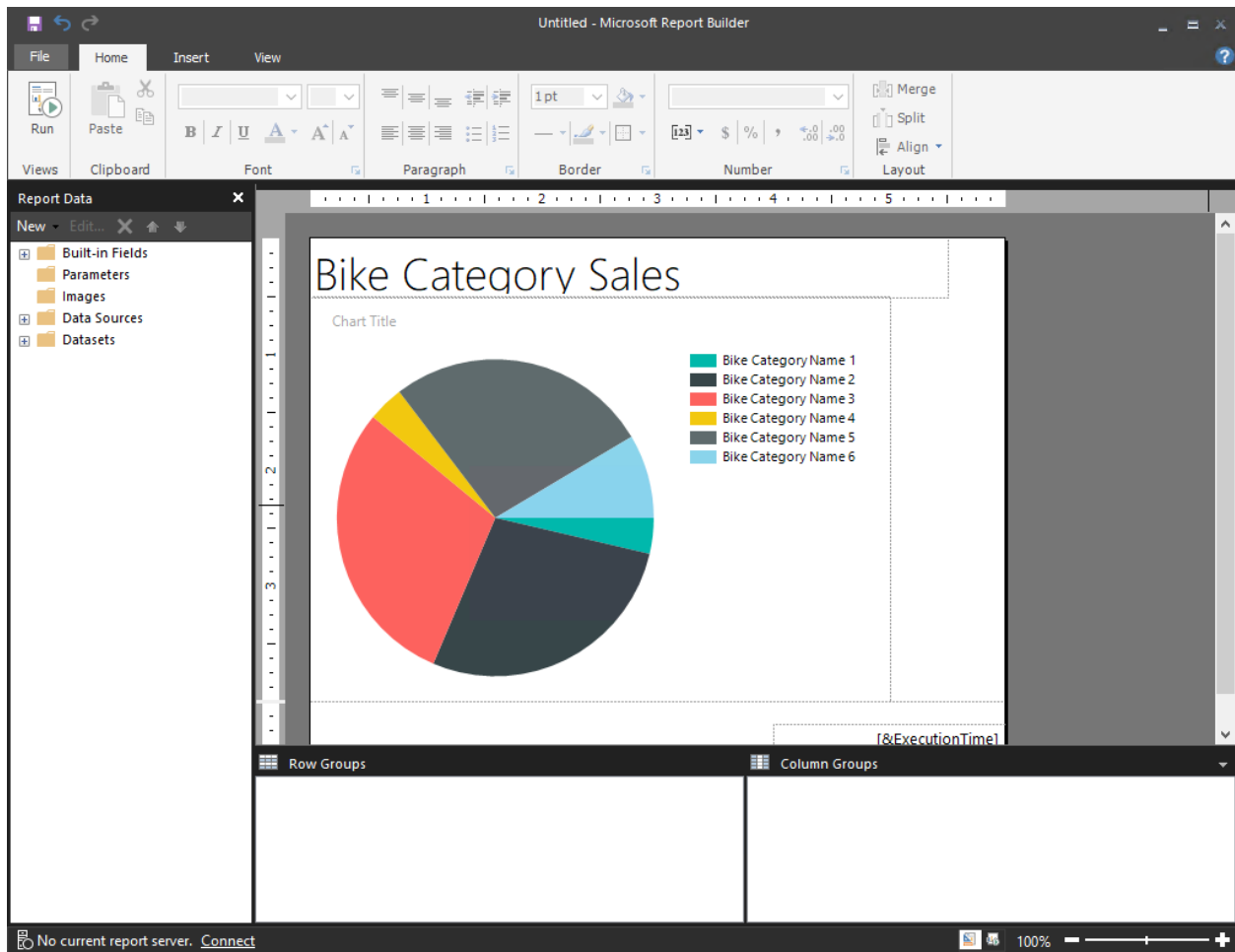
Help

< Back

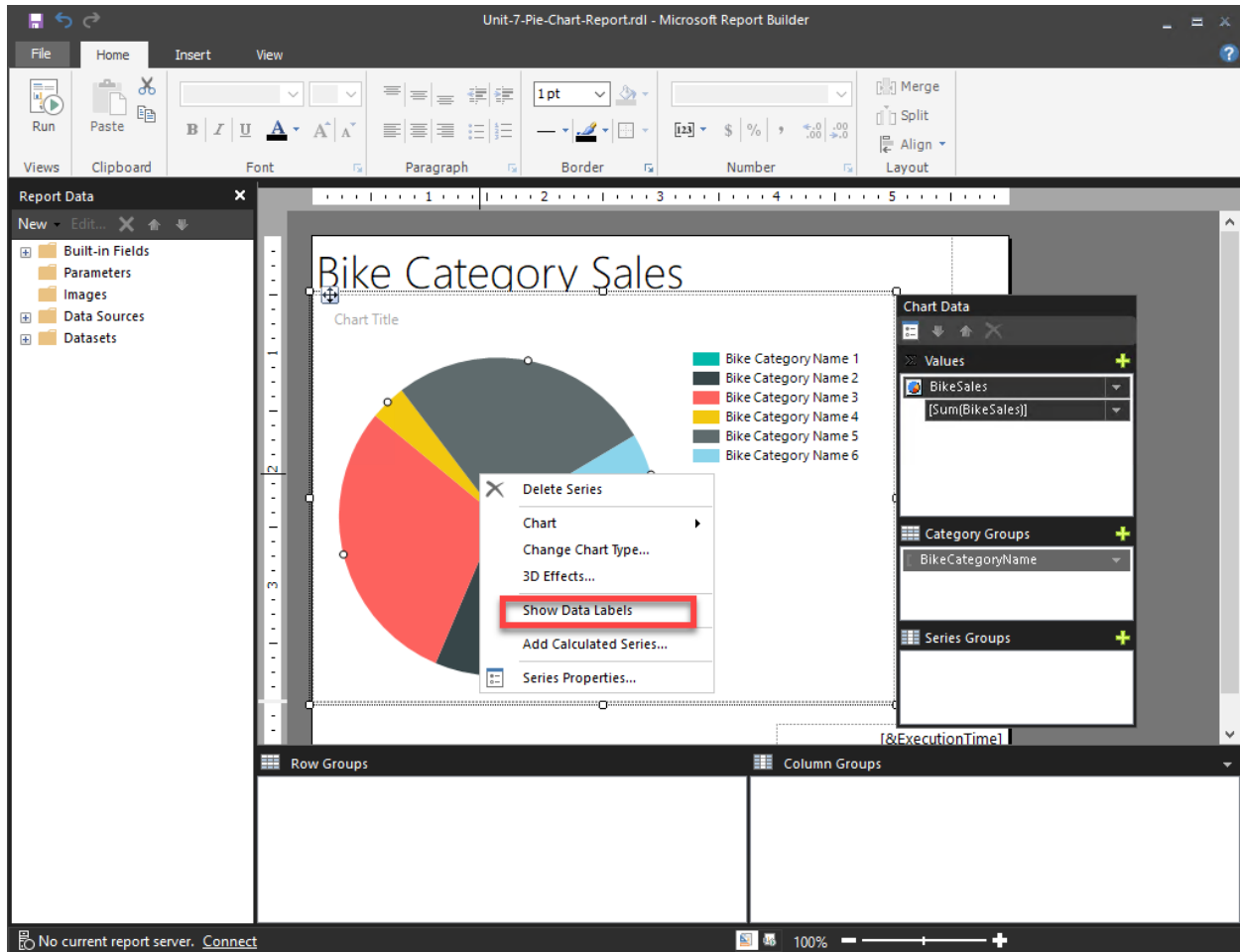
Next >

Cancel

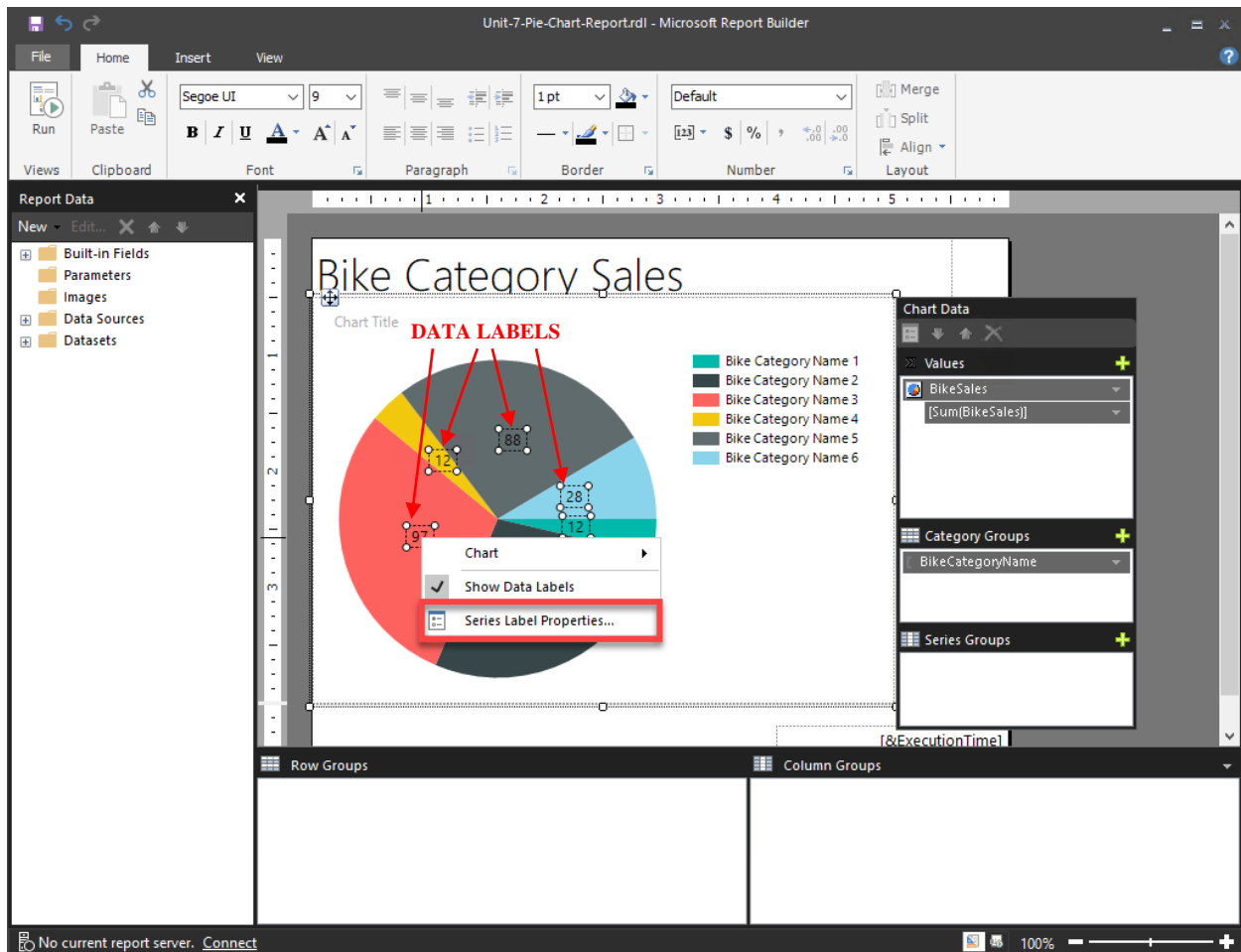
[12] You'll then see the ***“Preview”*** screen. Click on the **FINISH** button.



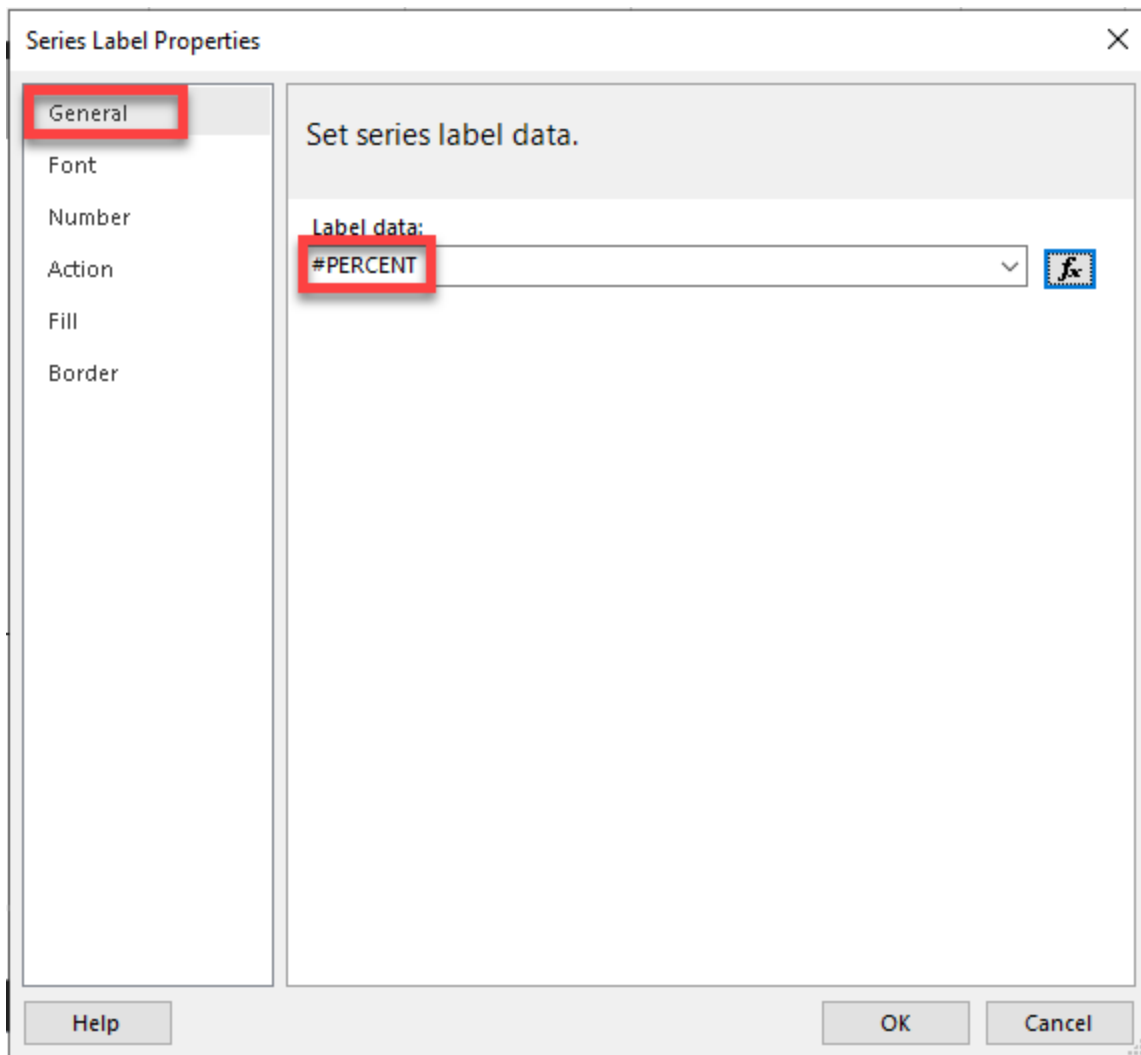
- [13] The configured report screen will then be presented in the main Report Builder window. You can add a title as specified on the screen. Right-click on the pie item in the chart and select the *Show Data Labels* item in the right-click menu.



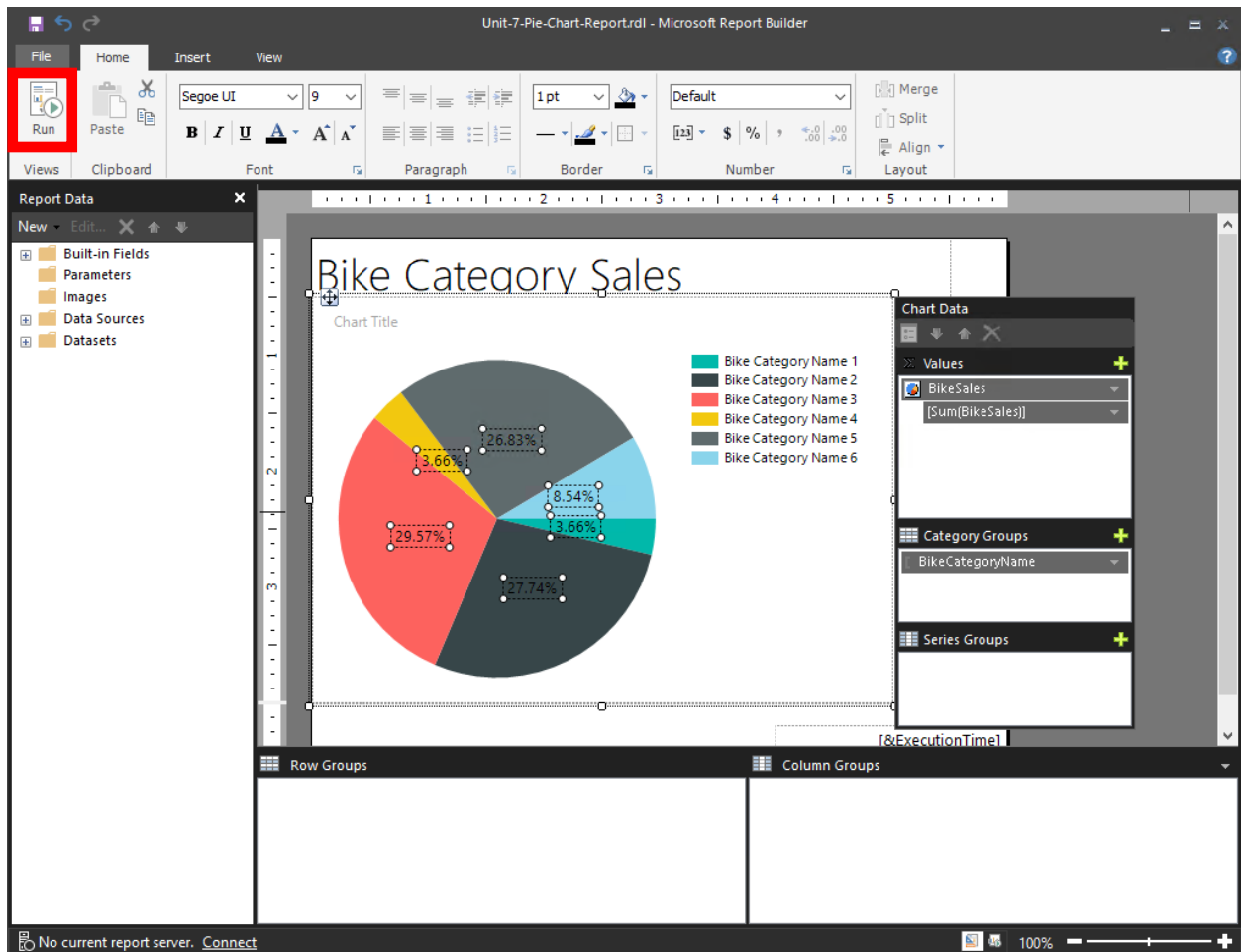
- [14] Right-click on one of the data labels contained within the pie chart. Select the *Series Label Properties* item from the right-click menu.



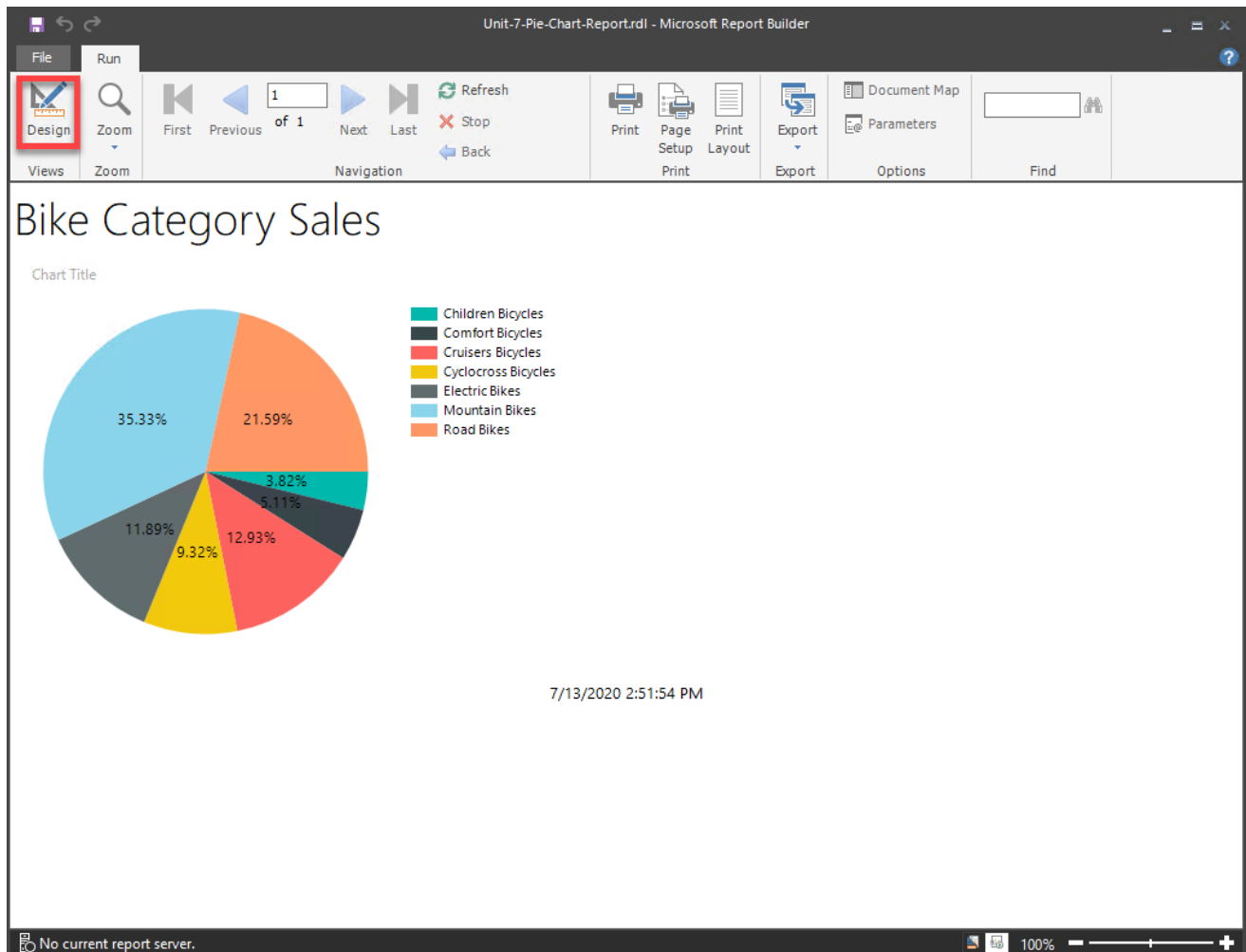
- [15] In the **General** section of the **Series Label Properties** window, enter **#PERCENT** into the **Label Data** text field. Then click on the **OK** button to apply the change.



- [16] In the main Report Builder screen, click on the **RUN** button in the upper left corner of the window to test out the report.



- [17] The generated report should look similar to what is provided below. Take a screenshot of your generated report as proof of report completion for the assignment. Incorporate the screenshot into your assignment document. Then click on the **DESIGN** button in the upper left corner of the window to return to the main Report Builder screen.



- [18] Save the Report Builder file via **FILE-->SAVE AS** from the top menu. Provide an applicable file name for the Report Builder file. You can then exit from the Report Builder application.

