# **SSRS Introduction**

# Sample manual - first two chapters



Manual 1082 - 214 pages -

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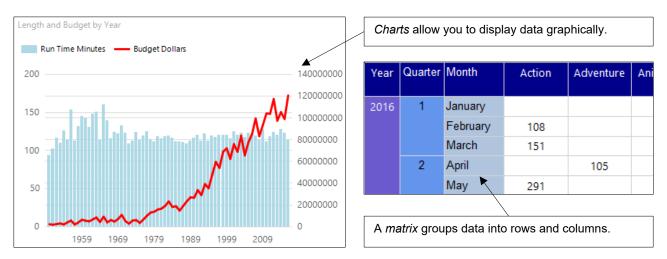
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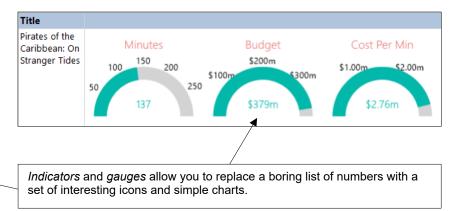
# **CHAPTER 1 - GETTING STARTED**

## 1.1 What is Reporting Services?

*SQL Server Reporting Services* (SSRS) allows you to create, manage and share reports. You can see examples of the types of reports you can create in the diagram below:



Akira Kurosawa			
Title	Run Time		
Seven Samurai	207	$\uparrow$	
Kagemusha	180	$\uparrow$	
Ran	162	$\rightarrow$	
Ikiru	143	$\rightarrow$	
The Hidden Fortress	139	$\rightarrow$	
Throne of Blood	110	$\downarrow$	
Yojimbo	110	$\downarrow$	
Sanjuro	95	4	
Rashomon	88	$\downarrow$	



You can add *parameters* to a report to allow users to control what data they see.

Even a boring table can become exciting by adding interactive elements to it.

Australia					
B	razil				
Title	Release Date Run Time				
City of God	30/08/2002		130		
Total					

Choose director	Steven Spielberg $\checkmark$
Choose film	Raiders of the Lost Ark $\sim$
🕅 🖣 1 of	1 🕨 🕅   🗢 🛞 🚱   🖨 🗐 💷 🔍 +   100%
Cast list for Raid	ers of the Lost Ark
Role	Actor
Indiana Jones	Harrison Ford
Sallah	John Rhys-Davies
Satipo	Alfred Molina
Marion Ravenwoo	d Karen Allen
Special vocal effe	cts Frank Welker
Dr. Marcus Brody	Denholm Elliott



## 1.2 Visual Studio and SQL Server Data Tools

*SQL Server Data Tools* (SSDT) is a set of templates for *Visual Studio*, Microsoft's flagship development tool. You create reports in Visual Studio using the SSDT templates.

#### A Brief History of Version Numbers

The versions of Visual Studio and SQL Server that go together by default aren't quite as intuitive as you'd expect!

SQL Server version	Default Visual Studio version	Name of Business Intelligence Templates
2008 R2	2008	Business Intelligence Development Studio (BIDS)
2012	2010	
2014	2012 (and later, 2013)	
2016	2015	SQL Server Data Tools (SSDT)
2017	2015	

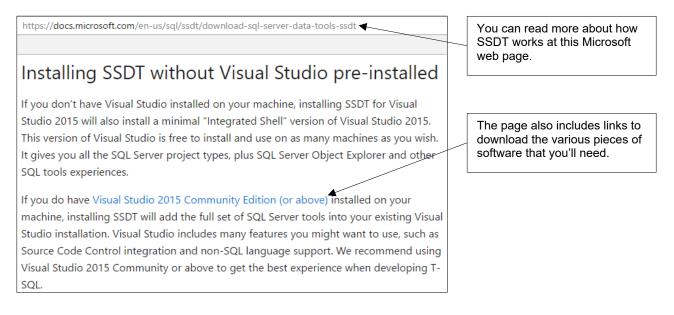
The screenshots in this manual are taken from SQL Server 2016 Developer Edition and Visual Studio 2015 Community Edition.



You can use a later version of Visual Studio to connect to data stored in an earlier version of SQL Server. You can also deploy report projects to earlier versions of SQL Server, providing that you change the appropriate settings.

#### Installing SQL Server Data Tools

You can install SSDT either as a standalone product or within an existing installation of Visual Studio. The standalone version of SSDT installs a lightweight Shell edition of Visual Studio.





## **1.3 Report Server Projects**

Before creating a report you'll need to create a *report server project*. The project contains all of the reports and any associated items such as database connections and queries.

### **Opening Visual Studio**

Depending on which version of SSDT you installed you may find multiple **Start Menu** shortcuts to open Visual Studio.

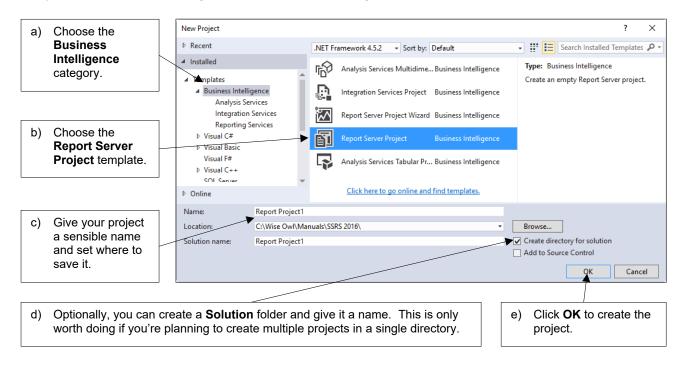


#### **Creating a New Project**

To create a new report server project:

- 1)
   Choose an option from the table on the right:
   Menu
   Keyboard

   File | New | Project...
   Ctrl + Shift + N
- 2) Complete the dialog box as shown in the diagram below:



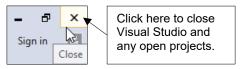


#### **Closing a Project**

The simplest way to close a project is to quit from Visual Studio. To do this:

Menu	Keyboard
<u>F</u> ile   E <u>x</u> it	Alt + F4

You could also just click the cross at the top right of the Visual Studio window to close the application.



If you prefer, you can close the current solution and keep Visual Studio open. To do this:

Menu	
<u>F</u> ile   Close Solu <u>t</u> ion	

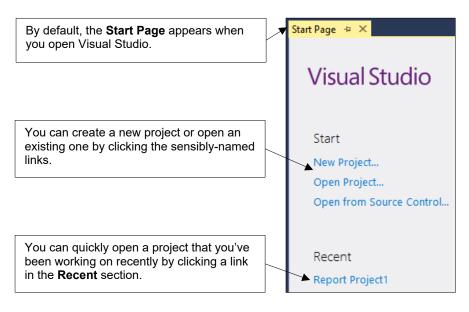
#### **Opening an Existing Project**

You can open an existing project in several ways, as shown in the table below:

Menu Alternative menu		Keyboard
<u>F</u> ile   <u>O</u> pen   <u>P</u> roject/Solution	File   Recent Projects and Solutions   [Project name]	Ctrl + Shift + O

#### Using the Start Page

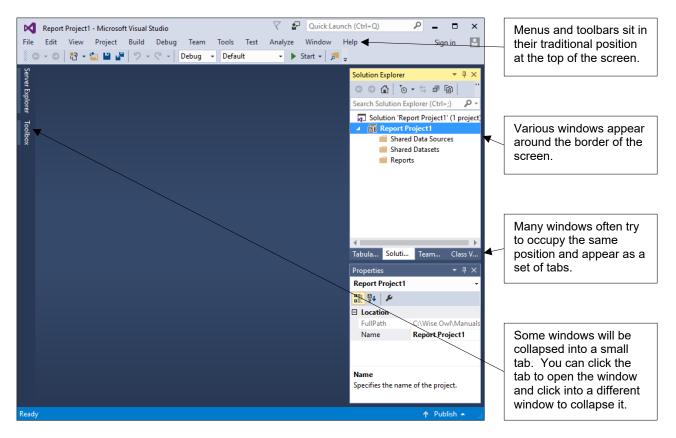
You can create and open projects quickly by using the links that appear on the *Start Page* when you first open Visual Studio.





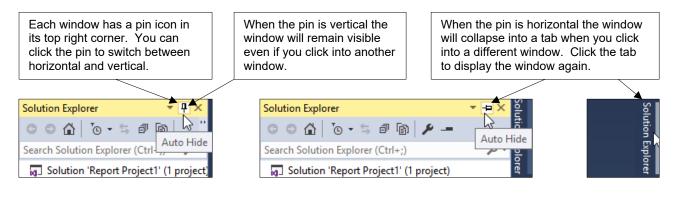
## 1.4 The Visual Studio Screen

Visual Studio is a complex application! You can see an overview of the main areas of the screen in the diagram below:



#### **Auto-Hiding Windows**

You'll use lots of different windows in Visual Studio. To make sure that you have enough space to design your reports you can set windows to *Auto Hide*.





#### **Opening and Closing Windows**

Visual Studio displays lots of windows by default, many of which you won't need when working on a report server project. You can close the windows that you don't need.

Class View	<b>-</b> ₽ X
는 C O 🗘 -	Close
	- 2

It's highly unlikely that you'll need to use the **Class View** window when working in a report server project. You can click the cross at the top right corner to close it.

To reopen any windows that you've closed, choose  $\underline{V}iew$  from the menu and select the window that you want to display.

#### The Main Windows

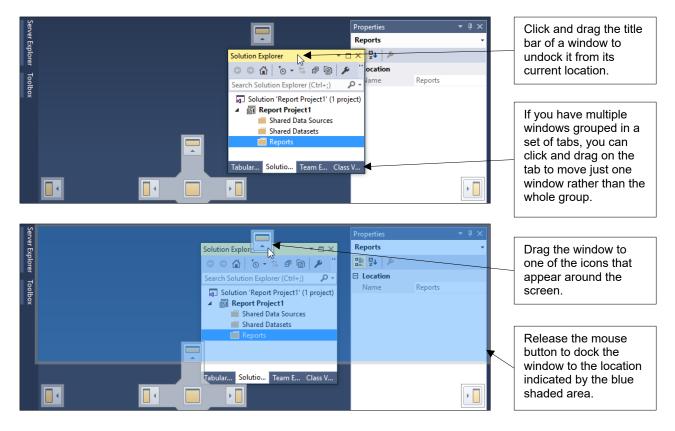
There are several windows that you'll use frequently in a report server project. You can see a description of the main windows in the table below:

Name	What it's for	What it looks like
Solution Explorer	Lists all of the items that belong to the project that you're working on.	Solution Explorer       ▼ ↓ ×         Image: Constraint of the system       Image: Constraint of the system         Search Solution Explorer (Ctrl+;)       P ×         Image: Constraint of the system       Image: Constraint of the system         Image: Solution System       Image: Constrainton System
Properties	Displays the attributes of any object that you have selected. You can change these properties to alter the object in various ways.	Properties       ▼ 平 ×         Report Project1       ▼         Image: Set of the set
Report Data	Allows you to create connections to data sources and queries to retrieve data that will be displayed in the report. This window appears when you open a report.	Report Data       ▼ 単 ×         New ▼ Edit × ↑ ↓         ▷ ■ Built-in Fields         ■ Parameters         ■ Images         ■ Data Sources         ■ Datasets
Toolbox	Contains objects that you can add to the design of your report.	Toolbox       ▼ ⋕ ×         Search Toolbox       ● ▼         ▲ Report Items       ● ▼         ▶ Pointer       ●         >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>



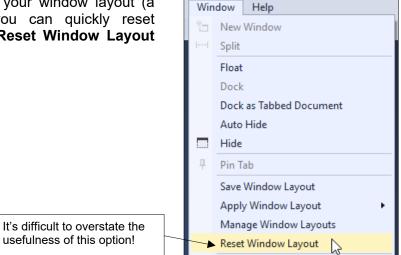
#### **Repositioning Windows**

If you'd prefer a window to appear somewhere other than its default location, you can dock it to one of many other positions by clicking and dragging on the window's title bar.



#### **Resetting the Window Layout**

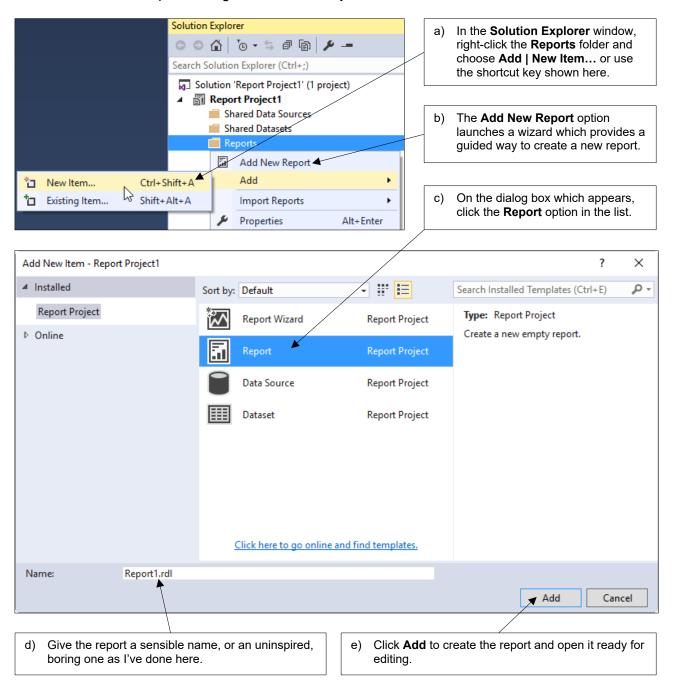
If you manage to make a mess of your window layout (a surprisingly easy thing to do!) you can quickly reset everything by choosing **Window | Reset Window Layout** from the menu.





# **CHAPTER 2 - WORKING WITH REPORTS**

## 2.1 Creating Reports



You can create new reports using the Solution Explorer window.

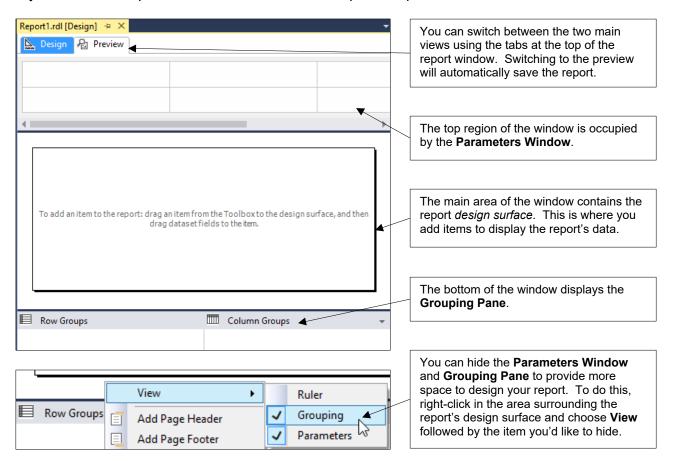


## 2.2 Report Views

You can switch between several different views of a report.

#### **Design View and Report Preview**

When you create a report it will automatically open in *design view*. This is where you'll spend most of your time as a report author. You can switch a report to a *preview* to run it and view its results.



#### **Code View**

SSRS reports are written in a language called *Report Definition Language* (*RDL*). You can see the RDL code that the report designer generates for you by opening the report in *code view*.

Solution 'Report Project1' (1 project)	Report1.rdl 🕀 🗙		
Report Project1	<pre>1 <?xml version="1.0" encoding="utf-8"?></pre>		
Shared Data Sources	2 ⊡		



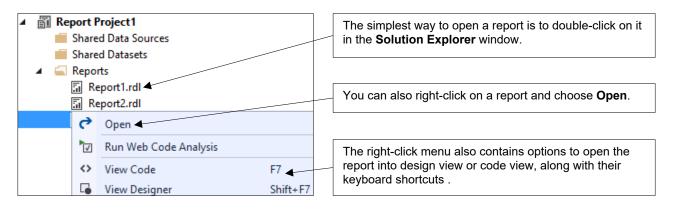
## 2.3 Managing Reports

#### **Opening and Closing Reports**

A report will be opened automatically when you first create it. You can close reports that you currently have open using the tabs at the top of the report window.

Report3.rdl [Design] Report		port2.rdl [Design] 😐 🗙 Report1.rdl [Design]		<	Each report that you have open will
📐 Design 🖓 Preview 💾		Save Selected Items	Ctrl+S		be displayed on a different tab.
		Close	Ctrl+F4		
	Ð	Close All Documents			Click the cross to close a single tab,
		Close All But This			or right-click to see other options.

You can open a closed report from the Solution Explorer window.



#### Saving Reports

You can choose to save either all of the reports you have open, or just those that you have selected. To select multiple reports you can click their tabs while holding the Ctrl key.

Option	Option Menu Keyboard		Right Mouse	
Save selected reports	<u>F</u> ile   <u>S</u> ave Selected Items	Ctrl + S	Save Selected Items	
Save all open reports	<u>F</u> ile   Save A <u>l</u> l	Ctrl + Shift + S	N/A	

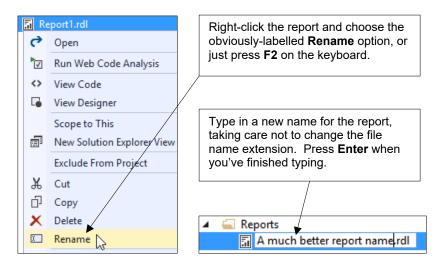
Reports are saved in the folder that you specified when you created the report project:

		> This PC > OS (C:) > Wise Owl > Man	uals > SSRS 2016 >	Report Project1 > Rep	oort Project1
You'll find your report files in the report server project's directory.	]	Name	Date modified	Туре	Size
		📙 bin	18/05/2017 12:57	File folder	
		📓 Report Project1.rptproj	18/05/2017 12:57	Report Project File	4 KB
		🗟 Report Project1.rptproj.user	18/05/2017 14:00	Visual Studio Proj	2 KB
		🔚 Report1.rdl	18/05/2017 12:57	Report Builder Re	2 KB



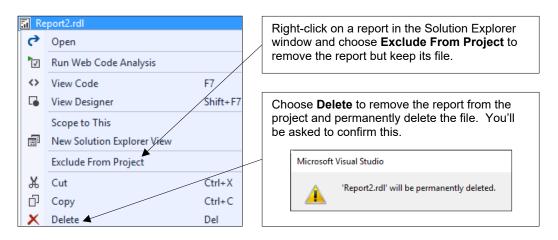
#### **Renaming Reports**

If you change your mind about the name you gave to the report when you created it, you can change it in the **Solution Explorer** window:



#### **Deleting and Removing Reports**

You can delete a report and its associated file entirely, or you can remove the report from the project but keep the file:



#### **Importing Reports**

If you want to bring back a report that you've removed from the project or add a report from another project, you can choose to import it:

Right-click the <b>Reports</b> folder in the				4	🛋 R	eports	
Solution Explorer and choose Add					5	Add New Report	
<b>Existing Item</b> You'll then need to browse for the report you want to	*1	New Item	Ctrl+S	hift+A		Add	•
import.	<b>t</b> a'	Existing Item	Shift+	Alt+A		Import Reports	•



## 2.4 Report Templates

The default report template contains nothing more than an empty page. Fortunately, you can create your own report templates populated with as many items as you like.

#### **Creating a Report Template**

To begin creating a report template, add a new report to your project in the usual way and add any items that you'd like to include in your template.

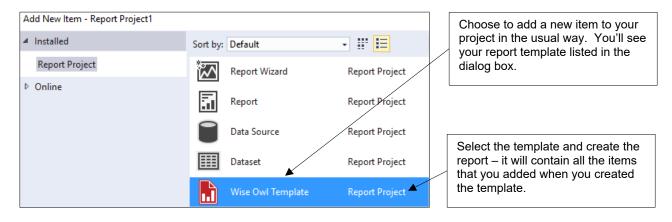
Wise Owl Template.rdl [Design] +> × Design Preview WiseOwl Training		Page [PageNum] of [TotalPages]	Your report template can be as elaborate as you like. This relatively basic one contains a custom header with a company logo and a table with
Column Heading Column Heading		Column Heading	some formatting applied to the header row.
	Data		

Once you've saved the report you can use it to create a template by copying the file to the correct location.

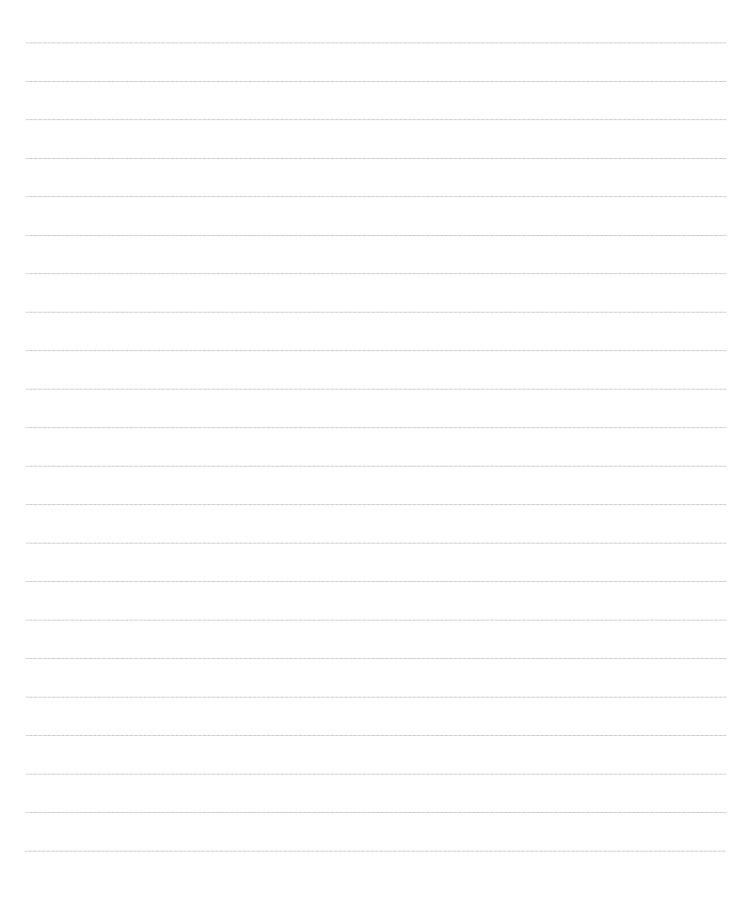
Copy the report you created to	this folder. This is the def	ault path for a stand	ard installatio	on of Visual Studio 2015.
		•		
OS (C:) > Program Files (x86) > Mic	rosoft Visual Studio 14.0 > Co	mmon7 > IDE > Priv	ateAssemblies	> ProjectItems > ReportProject
Name	Date modified	Туре	Size	
🖺 Wise Owl Template.rdl	18/05/2017 16:34	Report Builder Re	30 KB	
₽ DataSet.vsz	23/06/2016 02:30	Visual Studio Wiza	1 KB	

#### Using a Report Template

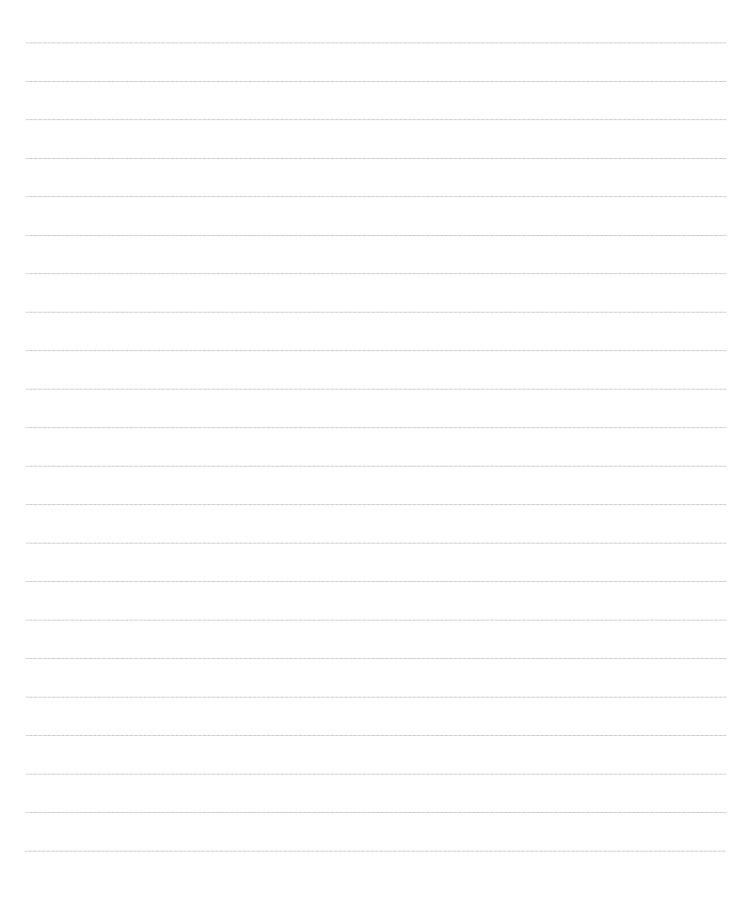
If you've copied the file to the correct location, you'll see your template the next time you choose to add a new report to your project.



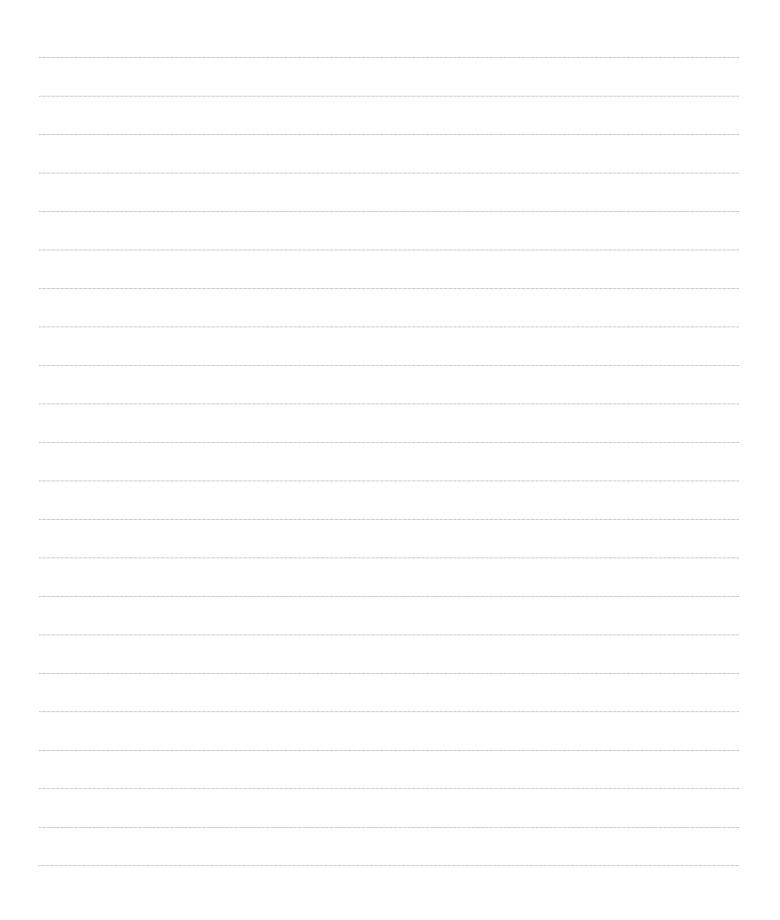




























# What we do!

		Basic training	Advanced training	Systems / consultancy
	Microsoft Excel	2	2	2
ice ice	VBA macros	2	2	
Office	Office Scripts			
	Microsoft Access			<b>2</b>
etc	Power BI and DAX	<b>2</b>	<u></u>	
Power BI, etc	Power Apps	<b>2</b>		
Pow	Power Automate (both)	<b>*</b>	<b>*</b>	
	SQL	<u></u>	<u></u>	
/er	Reporting Services	<b>2</b>	2	
SQL Server	Report Builder	<b>*</b>	<b>*</b>	<b>2</b>
SQL	Integration Services	<b>*</b>	<b>*</b>	<b>2</b>
	Analysis Services	2		
	Visual C#	<b>*</b>	<b>*</b>	<b>2</b>
Бu	VB programming			
Coding	MySQL			
	Python	<b>*</b>	<b>*</b>	



