

Installation guide and instruction of RapidMiner Studio 9.4

1) Installation of RapidMiner Studio 9.4

1.1) Download RapidMiner Studio 9.4

Search for "download RapidMiner Studio" on www.google.com and you will find the result as in Figure 1.

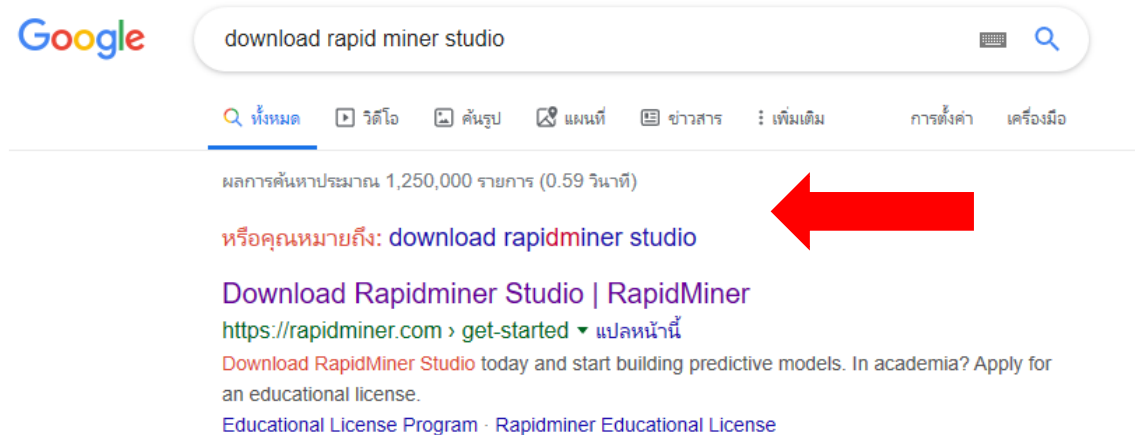


Figure 1

From Figure 1, click at 'Download RapidMiner Studio | RapidMiner' as pointed in the red arrow. This will show result as in Figure 2.



Figure 2

From Figure 2, the user has to provide basic information; (1) email address (2) your job or your role in the organization (3) type of your organization (you can choose any choice if no choice that fits your role and organization).

Then, click at 'download' button () to download the installation file. You will find the result as in Figure 3.

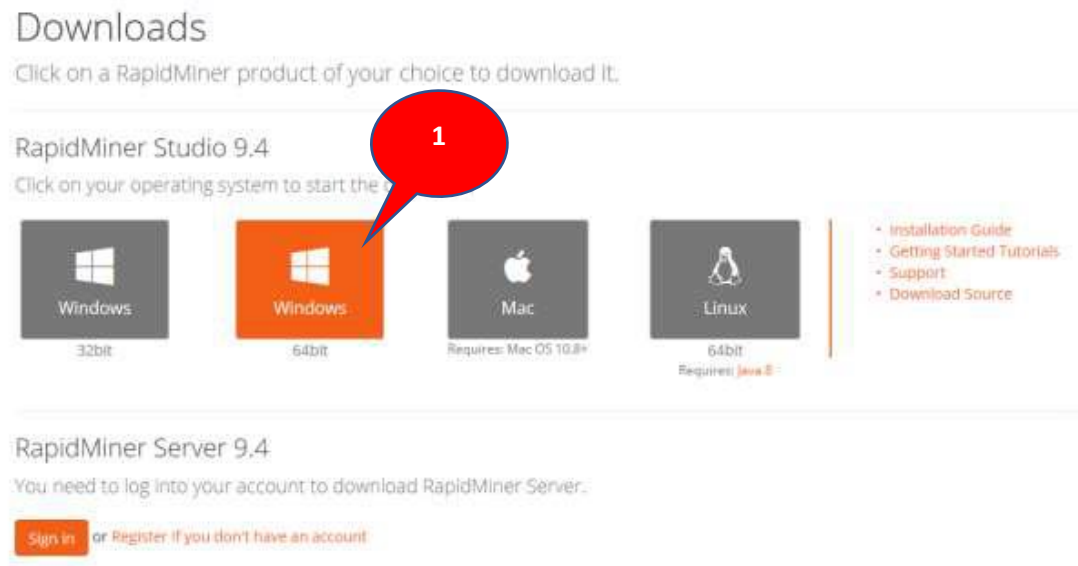


Figure 3

From Figure 3, choose the operating system of your device. Normally, the website will automatically check and highlight the compatible operating system of your device in orange color as shown in (1). For example, this device uses Windows as the operating system, thus the website will highlight the Windows logo. Click at the orange logo in (1) to download the installation file. You will find the result as in Figure 4.



Figure 4

From Figure 4, click at 'Save' button () to download the file to your device. Name of the file is 'rapidminer-studio-9.4.1-win64-install.exe' with the size of about 255 MB.

1.2) RapidMiner Studio 9.4 installation

The requirement to install RapidMiner Studio 9.4 is that the device must have at least RAM 4 GB

After downloading the installation file in step 1.1), you can find 'rapidminer-studio-9.4.1-win64-install.exe' in the location where you save the file. You will find the result as in Figure 5.

	HowToInstallRapidminer	24/9/2562 14:29	Microsoft Word D...	75 KB
	Outline_PPT	26/9/2562 14:44	Microsoft Word D...	2,364 KB
	Outlines	18/9/2562 15:31	Microsoft Word D...	61 KB
	rapidminer-studio-9.3.1-win64-install	23/9/2562 16:43	Application	257,775 KB
	rapidminer-studio-9.4.1-win64-install	8/10/2562 13:17	Application	261,366 KB
	Schedules	26/9/2562 16:09	Microsoft Word D...	16 KB
	Workshop Outlines	27/9/2562 10:51	Microsoft Word D...	14 KB
	ขั้นตอนการติดตั้ง Rapid Miner Studio 9	8/10/2562 13:16	Microsoft Word D...	301 KB

Figure 5

From Figure 5, you will find 'rapidminer-studio-9.4.1-win64-install.exe', as shown in the red-dash box. Double click the file to start installing RapidMiner Studio 9.4 to your device. You will find the result as in Figure 6.

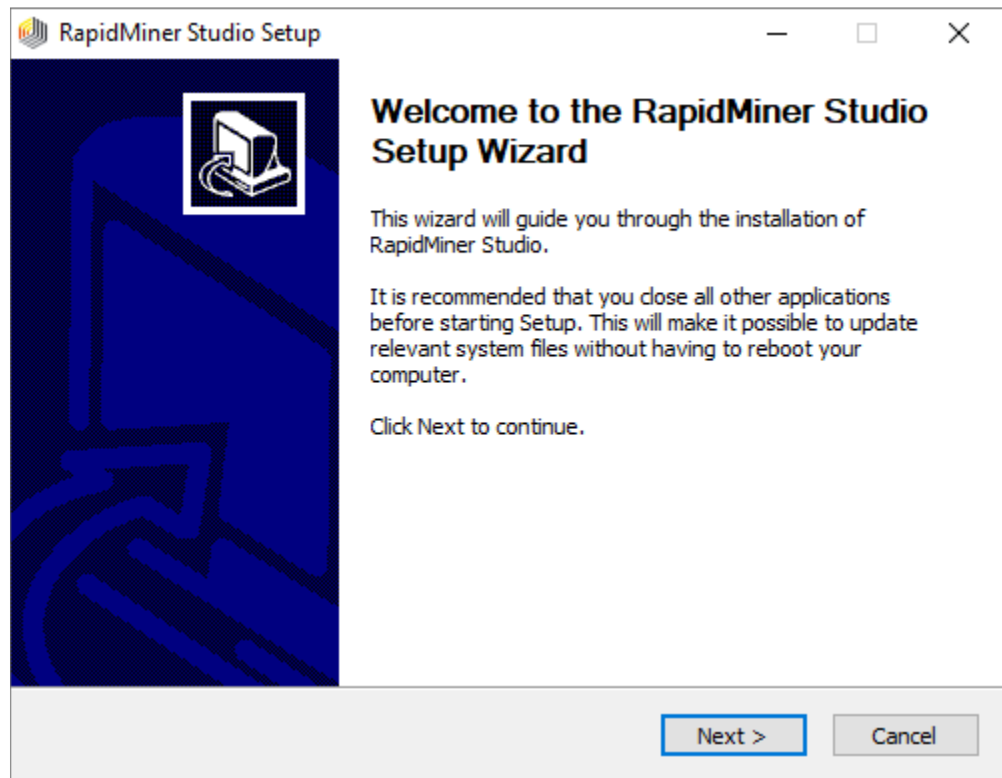


Figure 6

From Figure 6, click at 'Next' button () to start the installation. You will find the result as in Figure 7.

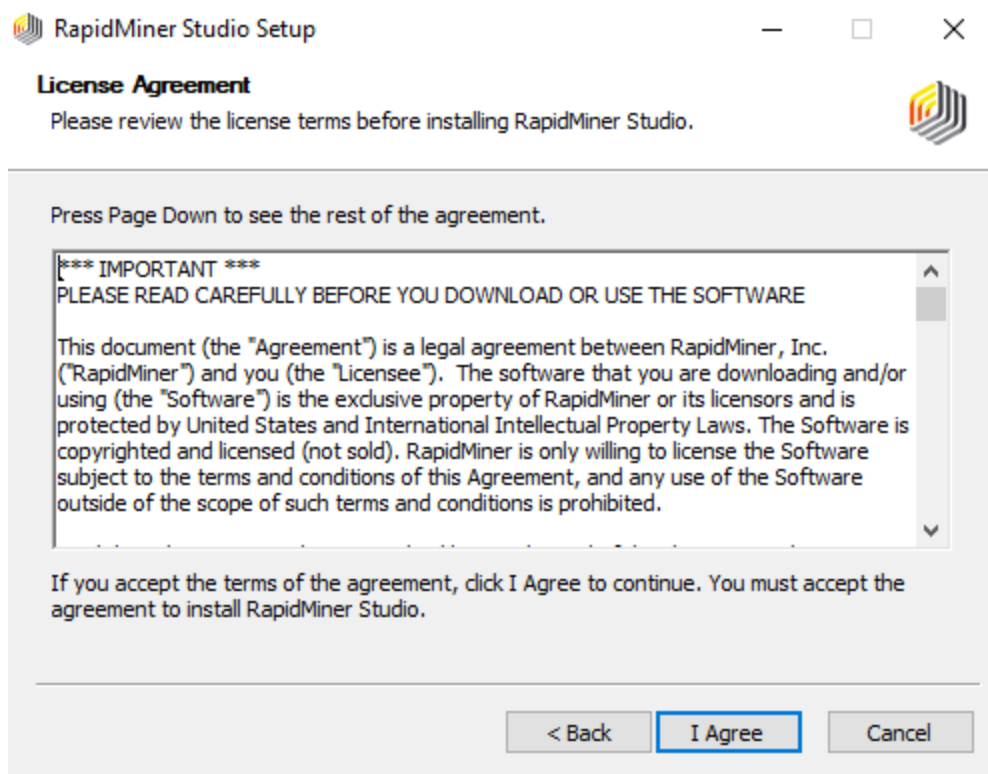
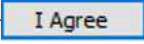


Figure 7

From Figure 7, click at 'I agree' button () to accept terms and conditions to use RapidMiner Studio. Then you will get the result as in Figure 8.

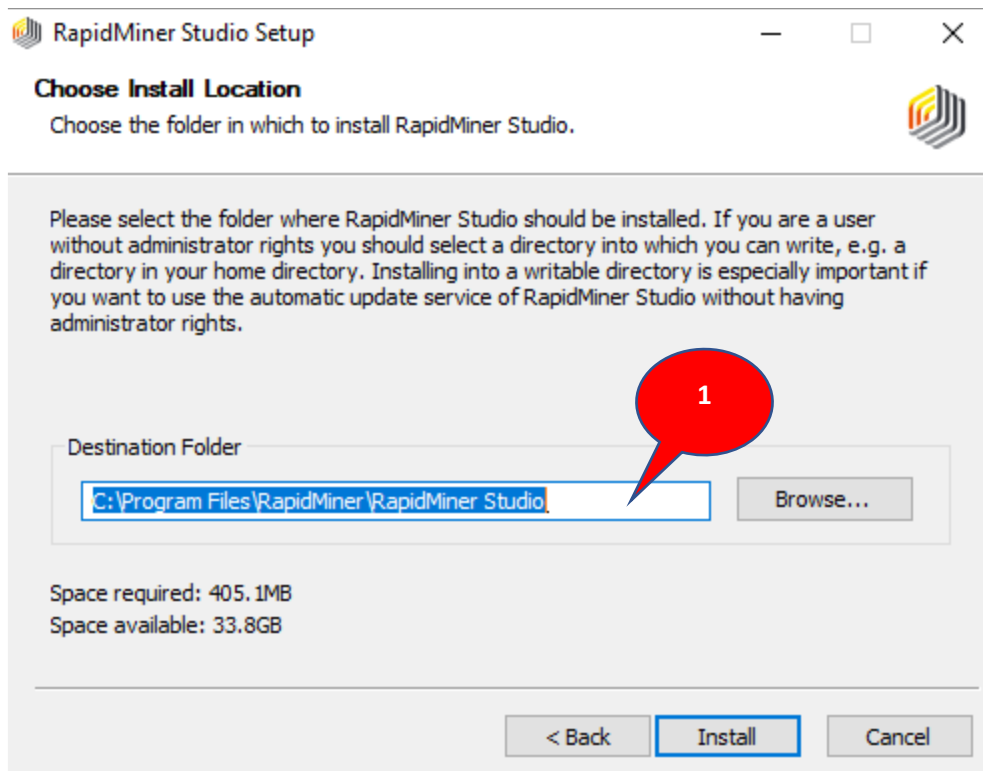


Figure 8

From Figure 8, choose the location that you want to install RapidMiner Studio in the hard disk of your device. As in (1), after you choose the location (or leave it as the default location), click the 'Install' button () to start installing the program. You will find the result as in Figure 9.

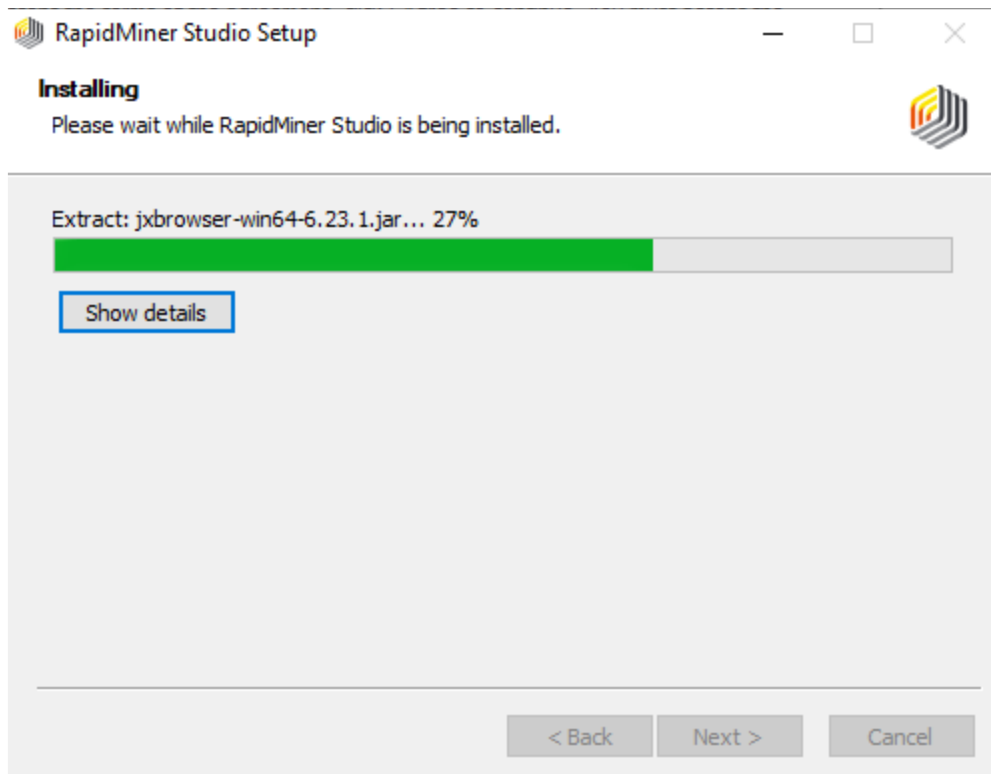


Figure 9

From Figure 9, this window is showing the process of installing the program to your device which will take about 1-2 minutes. After finishing the installing, you will find the result as in Figure 10.

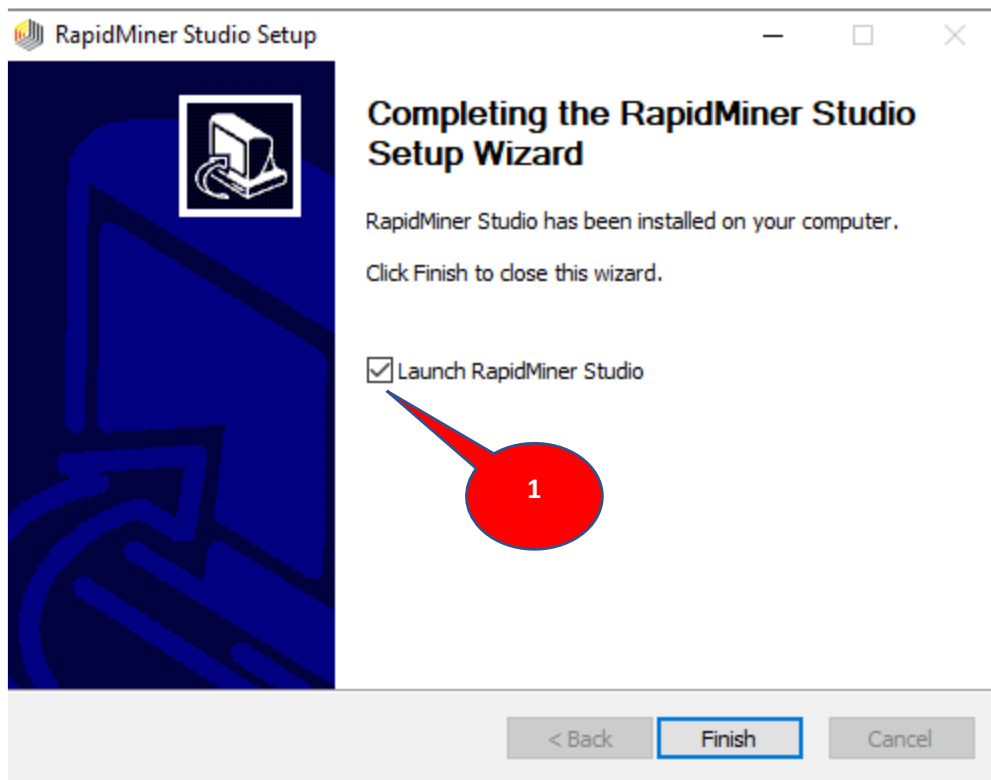
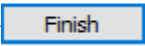
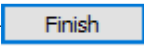


Figure 10

From Figure 10, this window shows that the installation of RapidMiner Studio is completed. Click 'Finish' button () to complete the process. If you marked as in 1,  , RapidMiner Studio will launch after you click 'Finish' button ().

2) Basic instruction to RapidMiner Studio 9.4

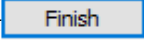
From Figure 10, after click at 'Finish' button () with marked on, RapidMiner Studio will lunch. You will find the result as in Figure 11.



Figure 11

This step will take about 2-3 minutes, then you will find the guideline window of intruction to use RapidMiner as Figure 12.

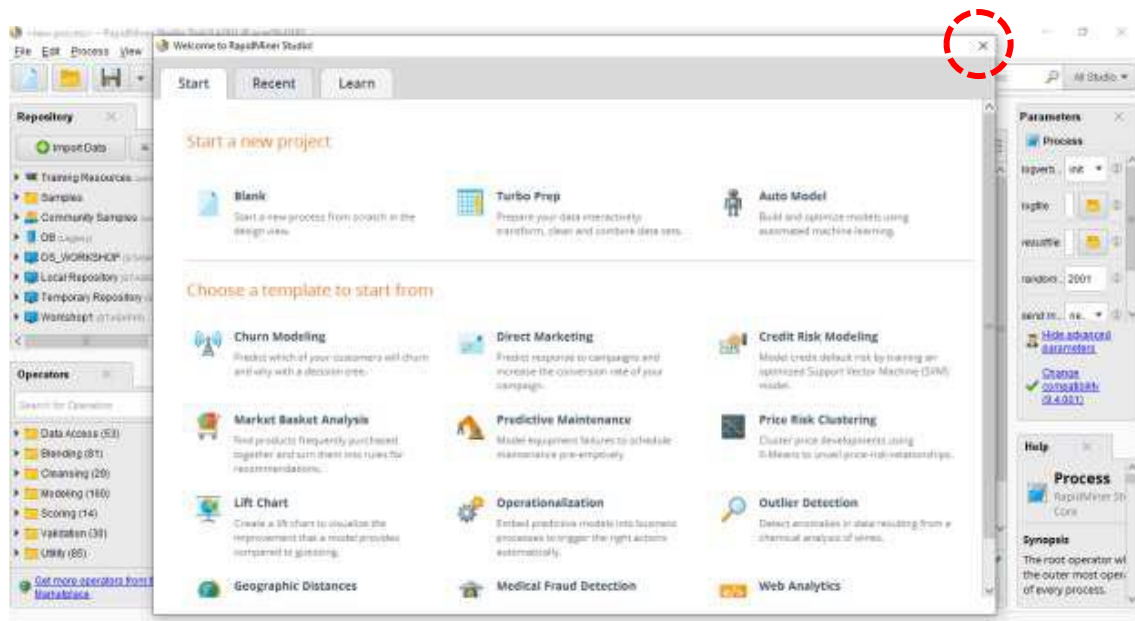


Figure 12

From Figure 12, click at the x button (in the red cycle) to close the guideline window and get to the start mode as in Figure 13.

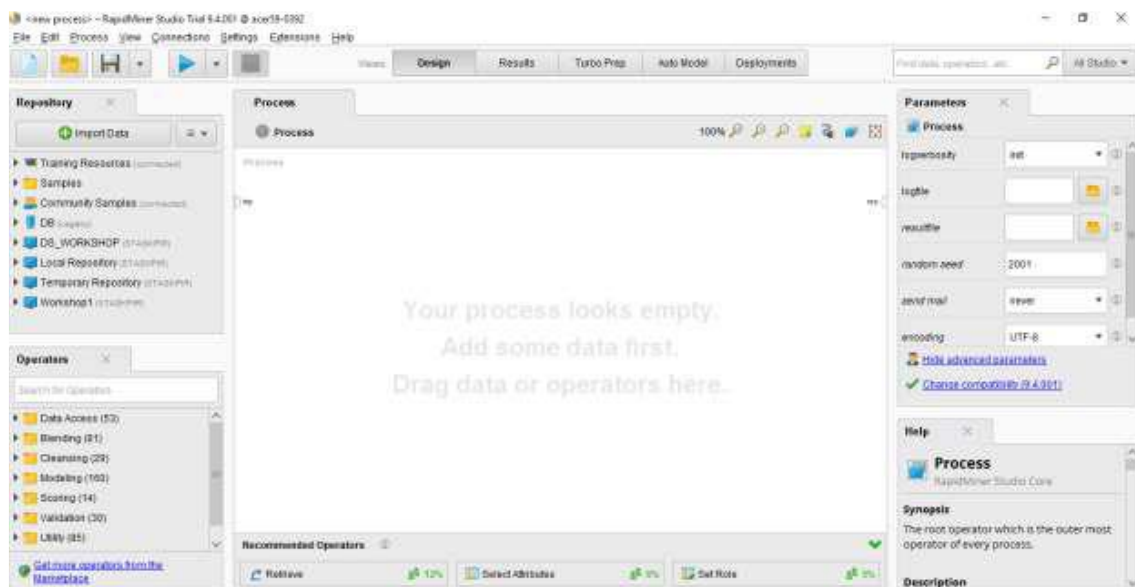


Figure 13

From Figure 13, the software has important elements as follows:

- 1) Basic toolbar as in Figure 14.



Figure 14

From Figure 14, on the right-hand side is to set the working mode as Figure 15. Two basic modes are 1) 'Design' is the main mode for designing the workflow and 2) 'Results' is to show the results from working.

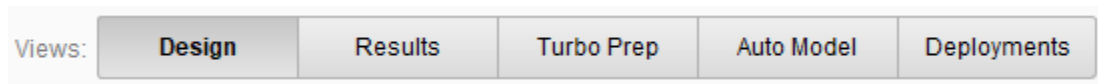


Figure 15

- 2) Repository, as in Figure 16, is the saved-file management.

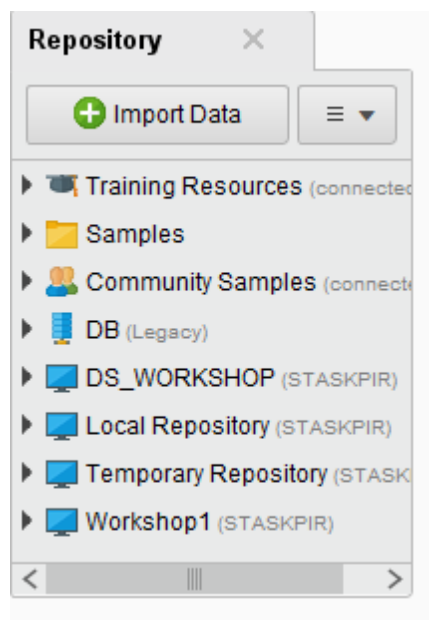


Figure 16

3) Operators, as in Figure 17, is the block diagram that facilitates the workflow. For example, we can use “Read Excel” to help import and read the excel file that you want to your workspace. There are many other operators in this software.

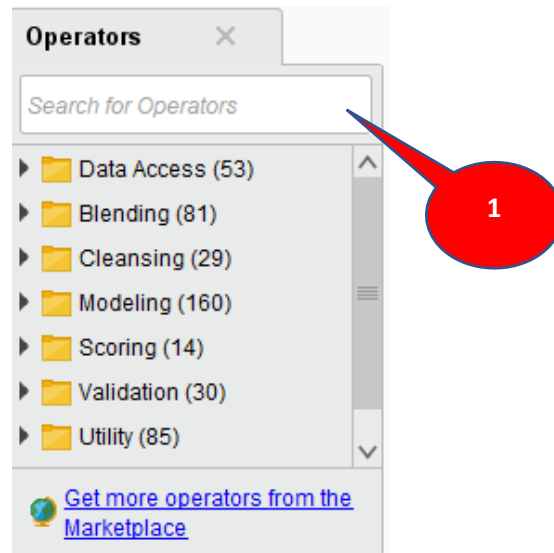


Figure 17

From Figure 17, you can search for the operator that you want by typing the words in the search box (1).

4) Parameters, as in Figure 18.

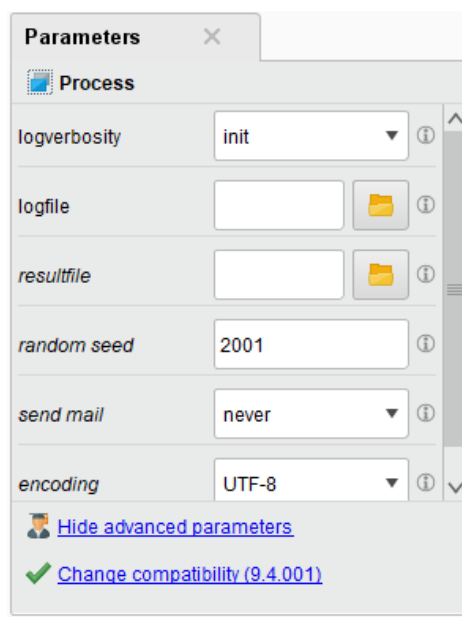


Figure 18

When using the Operators, sometimes you have to set the conditions in order to make operator does work as you want. For example, to import an excel file to your workspace you have to specify the name of the excel file.

5) Help, as in Figure 19, is the area that explains component, work, usage, and example of the operators.

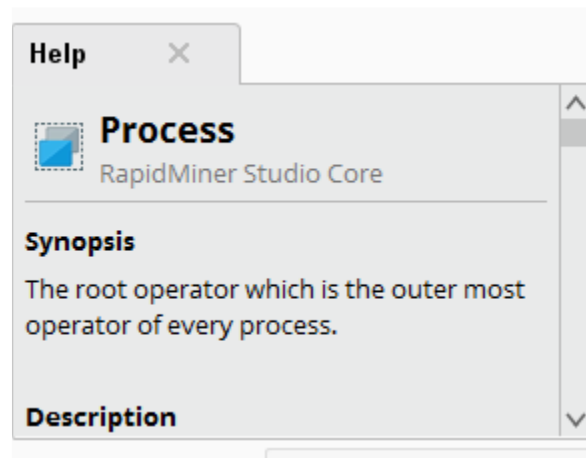


Figure 19

6) Process, as in Figure 20, is the very important part to design workflow for your project. You can drag operators and drop them in this window and link them together to create the workflow that you want.

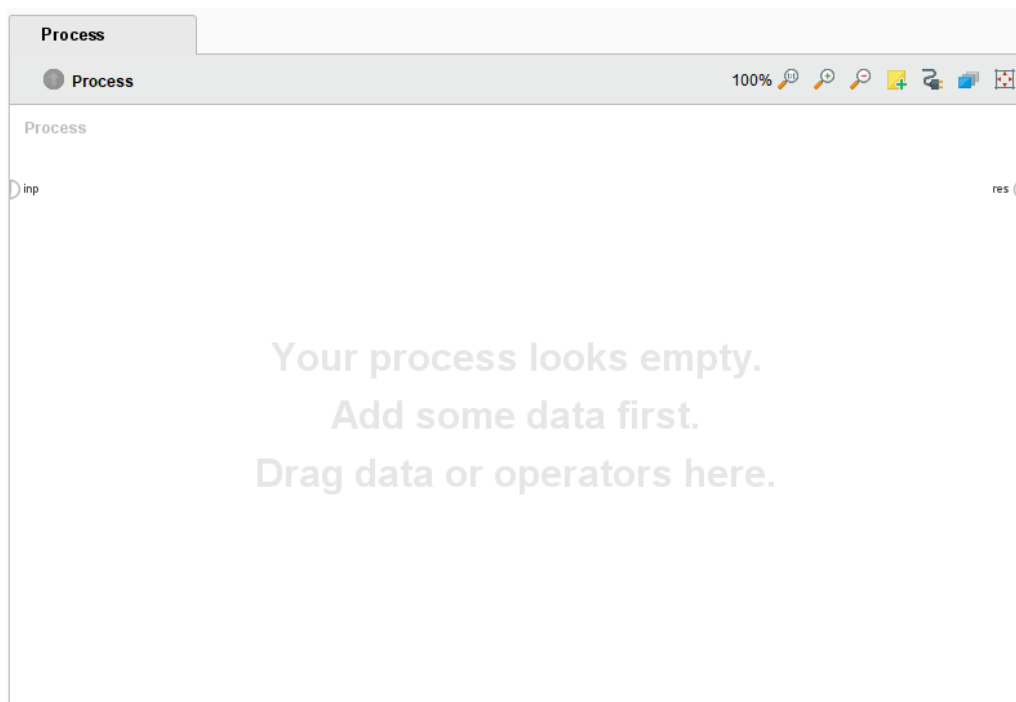


Figure 20

7) Recommended Operators, as in Figure 21, is the bar in which shows the recommended operators that might be useful to your workflow.

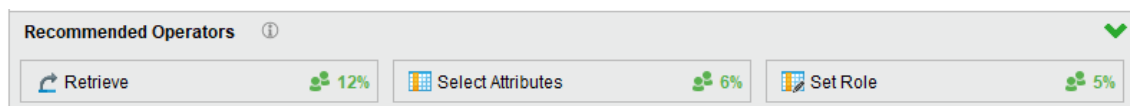


Figure 21

Example to import excel file to the workflow.

Reading and importing data is the first step in designing the workflow. Start from the defaults page of the software, as in Figure 22. The steps are as followed;

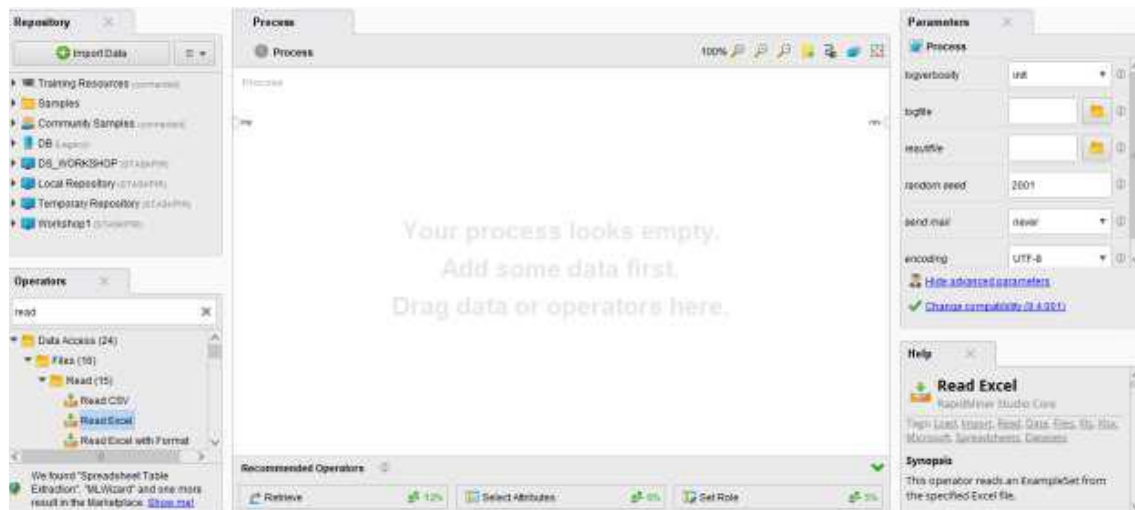


Figure 22

1) From Figure 22, use 'Read Excel' operator by typing “read” in the search box of the Operators as in Figure 23.

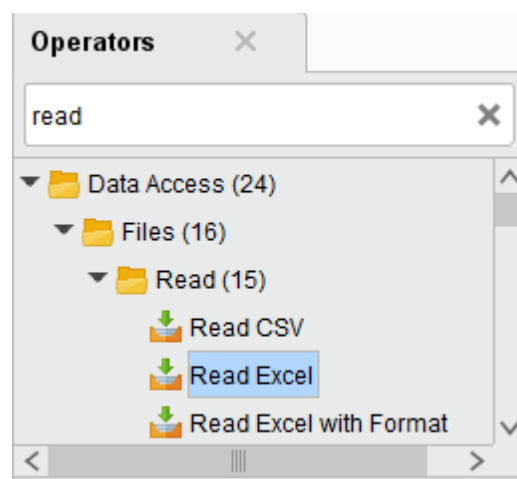


Figure 23

From Figure 23, you will find the 'Read Excel' operator. Click and hold on the 'Read Excel' then drag it to the Process area as in Figure 24.

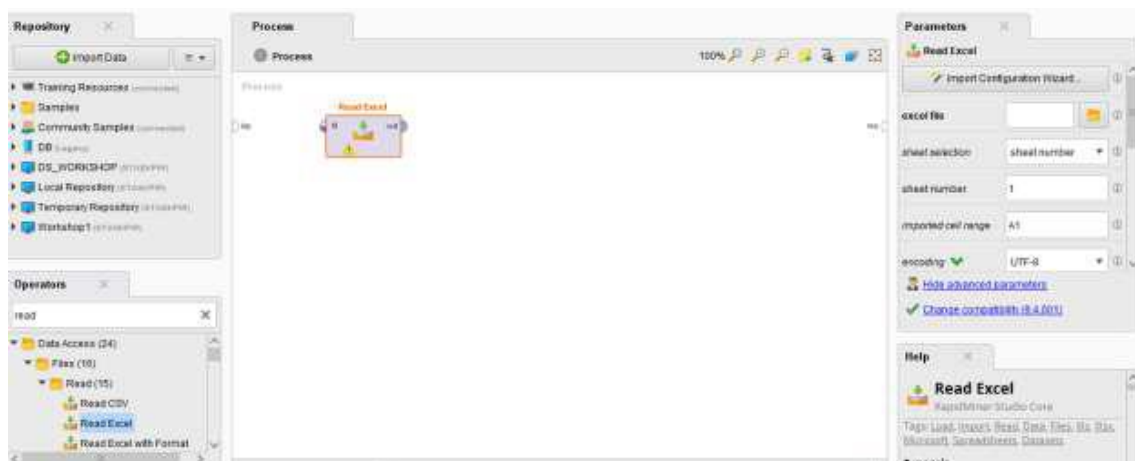


Figure 24

From Figure 24, you got the 'Read Excel' Block in the process area.

2) Specify the name of the excel file that you want to import into your workflow by clicking at  in the Parameters bar as in Figure 25.

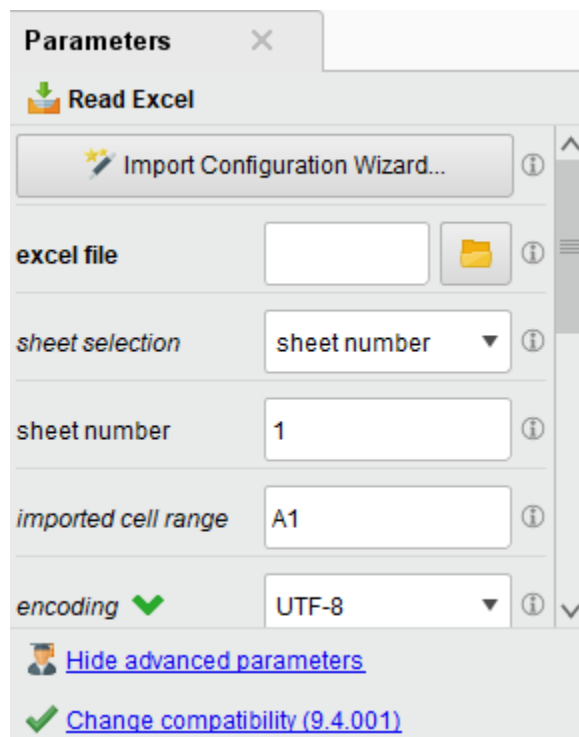


Figure 25

From Figure 25, after clicking at  you will get into the data import process. The window, as in Figure 26, will be shown and you have to specify the location and the name of the excel file that you want to import and read.

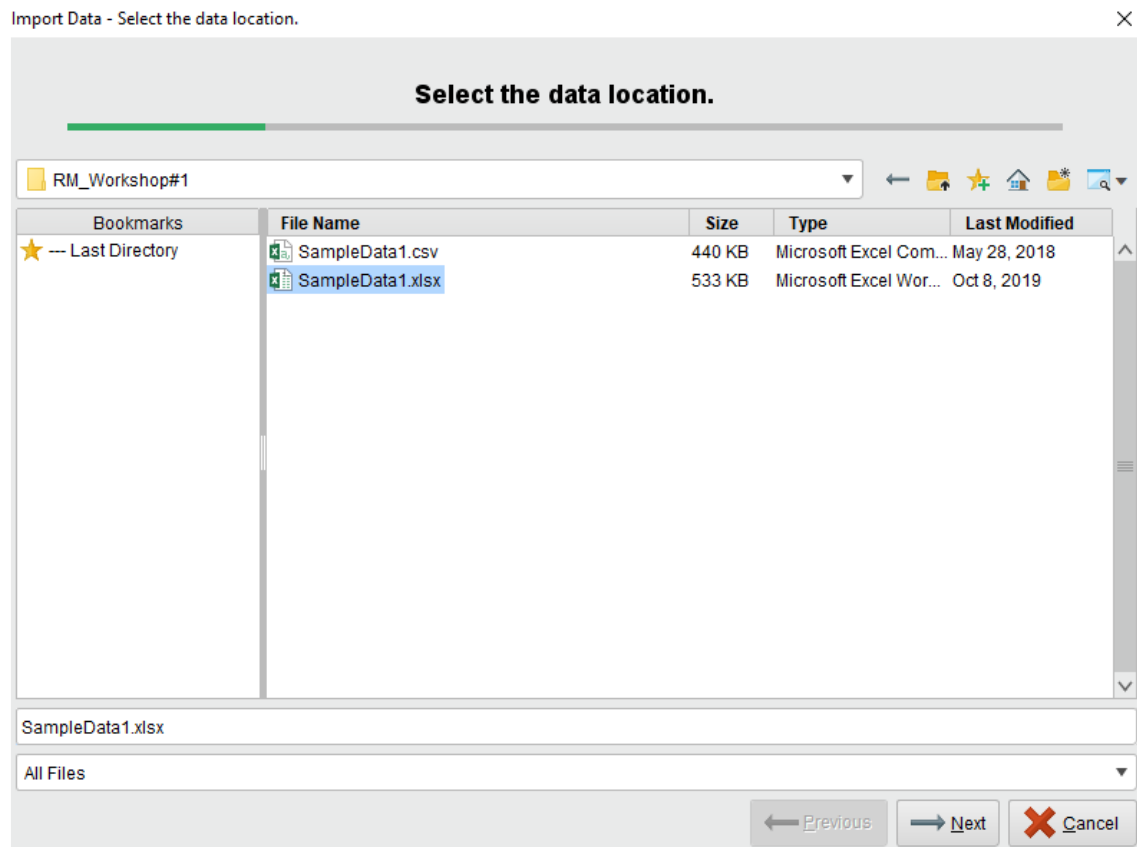
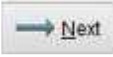


Figure 26

From Figure 26, suppose you want to import 'SampleData1.xlsx'. Click at 'SampleData1.xlsx' then click at 'Next' button () you will get the result as Figure 27.

Select the cells to import.

Sheet: Housing_Price ▾ Cell range: A:CB Select All ☒ Define header row: 1 ▴ ▾

	A	B	C	D	E	F	G	H	I	J
1	Id	MSSubC...	MSZoning	LotFront...	LotArea	Street	Alley	LotShape	LandCon...	Utilities
2	1461.000	20.000	RH	80.000	11622.000	Pave	NA	Reg	Lvl	AllPub
3	1462.000	20.000	RL	81.000	14267.000	Pave	NA	IR1	Lvl	AllPub
4	1463.000	60.000	RL	74.000	13830.000	Pave	NA	IR1	Lvl	AllPub
5	1464.000	60.000	RL	78.000	9978.000	Pave	NA	IR1	Lvl	AllPub
6	1465.000	120.000	RL	43.000	5005.000	Pave	NA	IR1	HLS	AllPub
7	1466.000	60.000	RL	75.000	10000.000	Pave	NA	IR1	Lvl	AllPub
8	1467.000	20.000	RL	NA	7980.000	Pave	NA	IR1	Lvl	AllPub
9	1468.000	60.000	RL	63.000	8402.000	Pave	NA	IR1	Lvl	AllPub
10	1469.000	20.000	RL	85.000	10176.000	Pave	NA	Reg	Lvl	AllPub
11	1470.000	20.000	RL	70.000	8400.000	Pave	NA	Reg	Lvl	AllPub
12	1471.000	120.000	RH	26.000	5858.000	Pave	NA	IR1	Lvl	AllPub
13	1472.000	160.000	RM	21.000	1680.000	Pave	NA	Reg	Lvl	AllPub
14	1473.000	160.000	RM	21.000	1680.000	Pave	NA	Reg	Lvl	AllPub

< >

← Previous
Next →
✗ Cancel

Figure 27

Figure 27 shows the details of the data in the file. In this step, you can choose the data that you want to import. If not, the software will select and import all the data by default. After choosing, click at 'Next' button () and you will get the result as in Figure 28.

Format your columns.

☐ Replace errors with missing values ⓘ

	Id <i>integer</i>	MSSubClass <i>integer</i>	MSZoning <i>polynomial</i>	LotFrontage <i>polynomial</i>	LotArea <i>integer</i>	Street <i>polynomial</i>	A <i>p</i>
1	1461	20	RH	80	11622	Pave	
2	1462	20	RL	81	14267	Pave	
3	1463	60	RL	74	13830	Pave	
4	1464	60	RL	78	9978	Pave	
5	1465	120	RL	43	5005	Pave	
6	1466	60	RL	75	10000	Pave	
7	1467	20	RL	NA	7980	Pave	
8	1468	60	RL	63	8402	Pave	
9	1469	20	RL	85	10176	Pave	
10	1470	20	RL	70	8400	Pave	
11	1471	120	RH	26	5858	Pave	
12	1472	160	RM	21	1680	Pave	

✓ no problems.

← Previous
 Finish
 Cancel

Figure 28

Figure 28 is all the selected data that you imported. By clicking at 'Finish' button (Finish), you will finish the import data process and get the results as Figure 29. If you want to change something, you can click at 'Previous' button (Previous) to go back to the previous step.

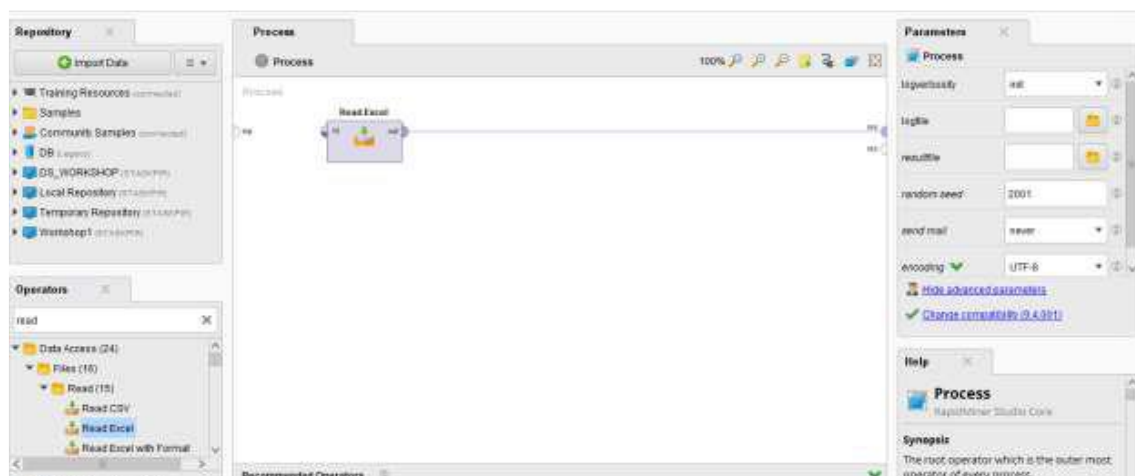


Figure 29

Put your cursor at the point behind the word “out” in the red-dash cycle of ‘Read Excel’ Block as in Figure 30. Then drag it to the end of the Process area that has the word “res” as in Figure 31.

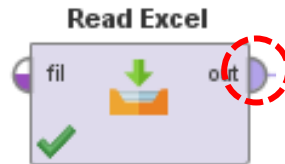


Figure 30

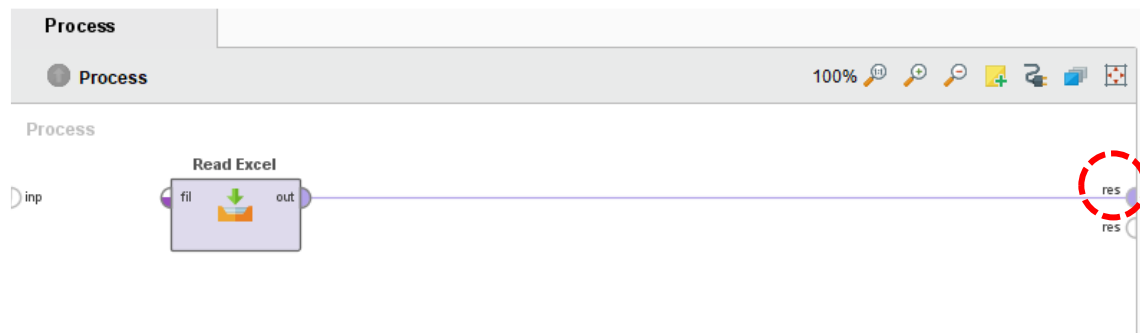


Figure 31

To test the process of reading and importing excel file, by click at , as in Figure 32, then you will get the result as in Figure 33.



Figure 32

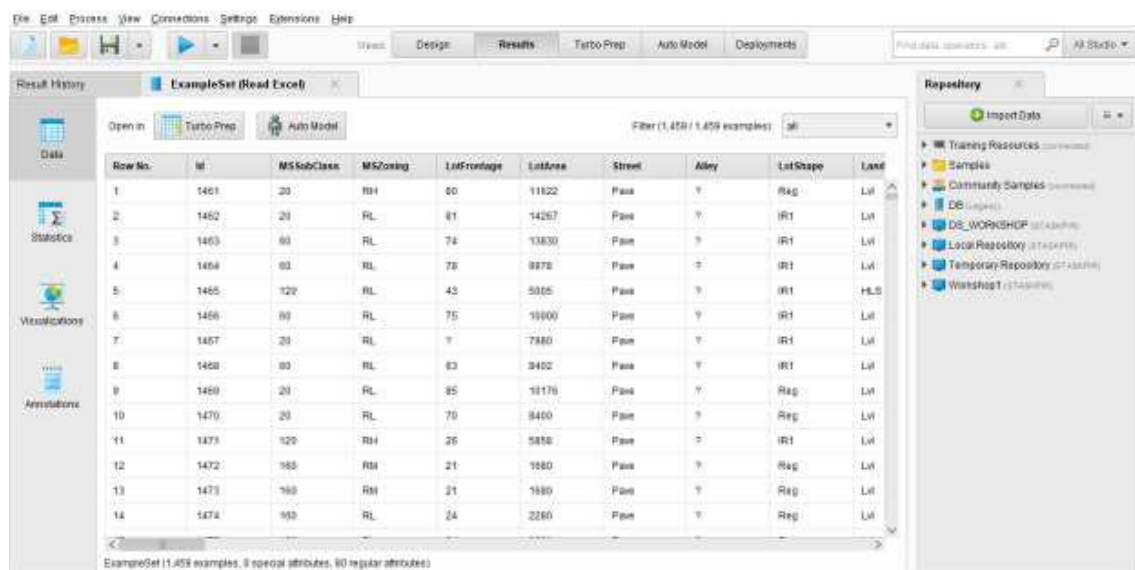


Figure 33

Figure 33 shows the results of the workflow that you designed in the Process, which is to read the excel file. The result is the data in the excel file. On the left-hand side is the options that you want the data to be displayed. For example, Statistics is to show the basic statistics detail of the data as in Figure 34. Visualization is to show the data in the graphs as in Figure 35.



Figure 34

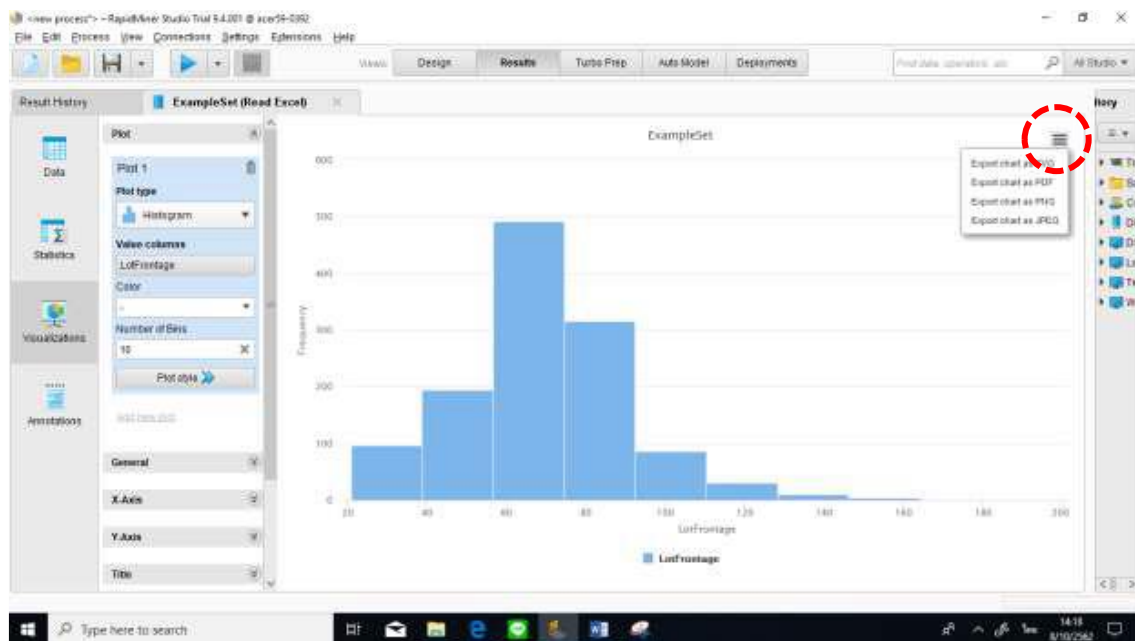


Figure 35

From Figure 35, you can save any graph as a file by clicking at the button in the red-dash cycle. There will be options of the graph to be exported (save) as picture file or PDF. After choosing, you get to the save file process as in Figure 36.

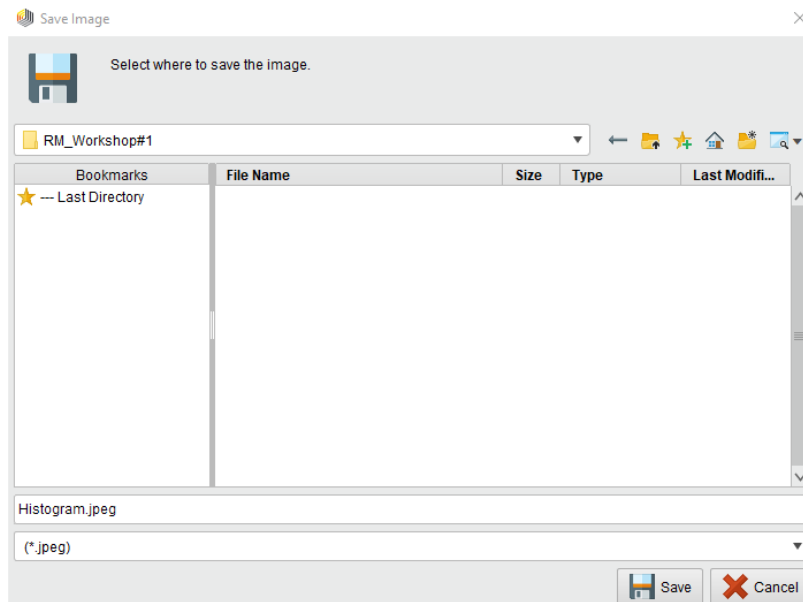


Figure 36

From Figure 36, click at 'Save' button () to save the graph into the picture file.