

PUBLIC

SAP ANALYTICS CLOUD, ANALYTICS DESIGNER, IN ACTION

ANA362

Exercises / Solutions

Marouene Ferchichi, Jie Deng, Christina Mast - SAP SE

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BEFORE YOU START

Due to time constraints during the Hands-on session, it is recommended that you first take a look at the different exercises and then decide which ones you want to work through first.

Exercise 1: ANA362_Exercise_1

Estimated Duration: **[90] minutes**

With this exercise you are going to create a simple responsive analytical application and embed it into a HTML page and run it with your mobile phone.

Exercise 2: ANA362_Exercise_2

Estimated Duration: **[45] minutes**

With this exercise you will be able to explore and use the Generic Template.
With this template you will have the possibility to select and modify your Data Set using the available functionalities.

Exercise 3: AIN362_Exercise_3

Estimated Duration: **[45] minutes**

Here you are going to create a simple feedback to ask user to enter the rating of a web page and then calculate the average score of this web page.
You are going to leverage the responsive capability of analytics designer and integration with SAC planning capability to implement this scenario.

All the exercises are independent from each other. You can choose the exercise to work on based on your knowledge and interest.

Connect to Sap Analytics Cloud

you can directly type the following address in your **Google Chrome**:

<https://ANA362.eu10.hcs.cloud.sap>

ANA362 EXERCISE 2

Overview

Estimated time: [45] minutes

Objective

With this exercise you will be able to explore your dataset in real time via the Generic Template.

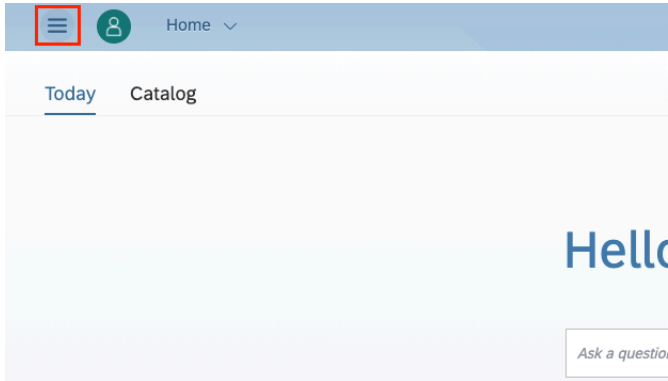
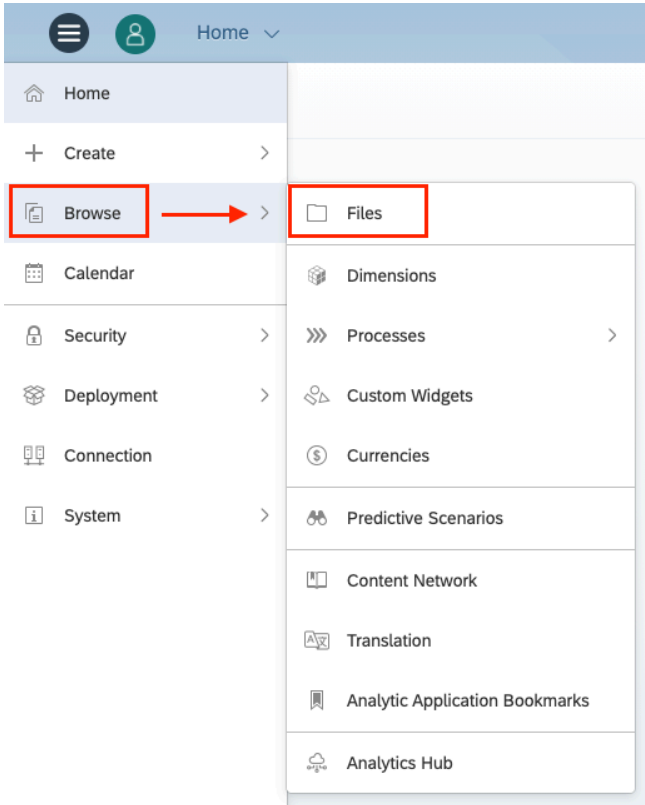
With this template you will have the possibility to select and modify your Data Set using the available functionalities.

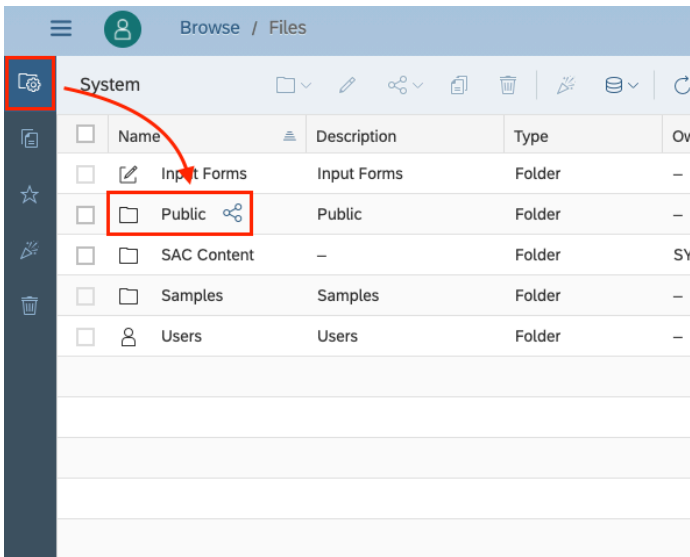
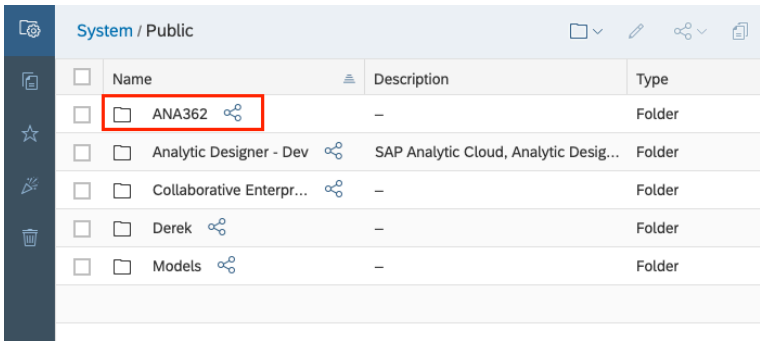
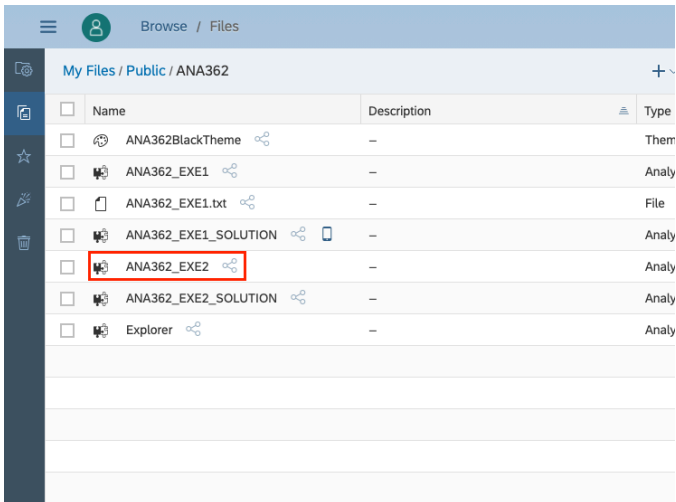
Exercise Description

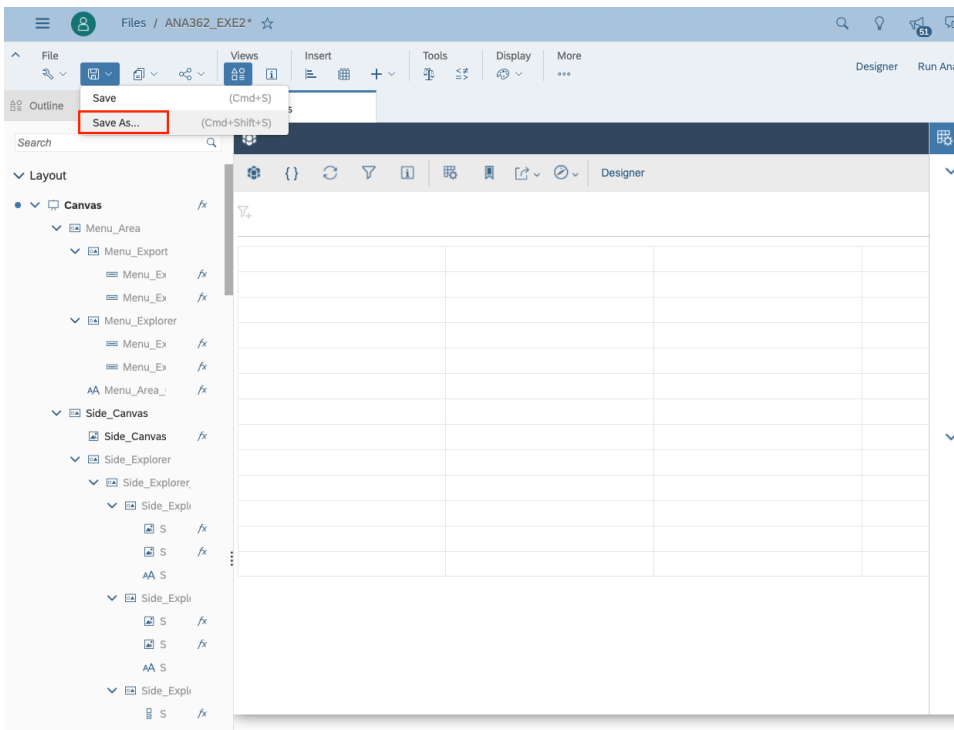
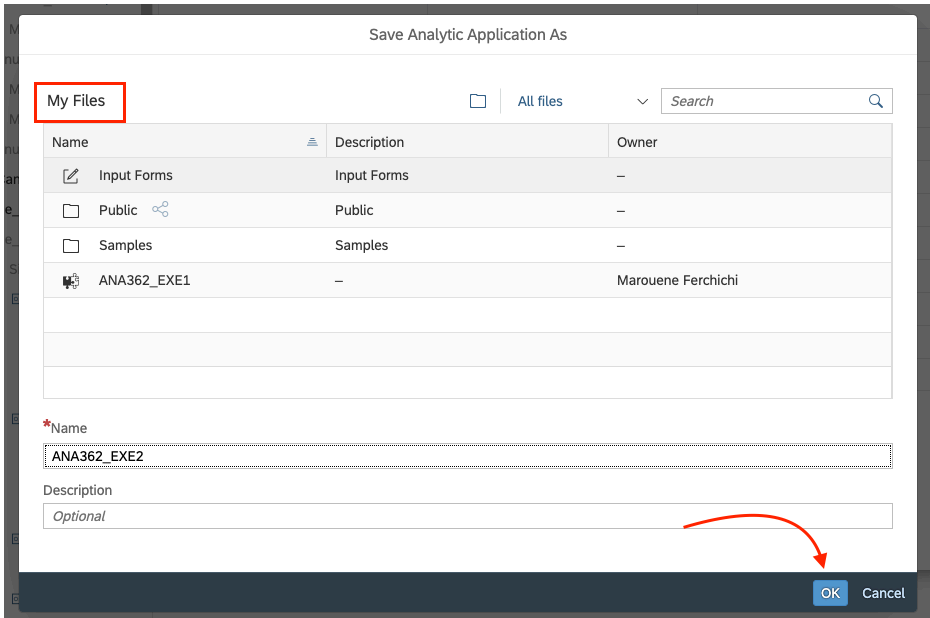
You are going to execute the following steps within this exercise

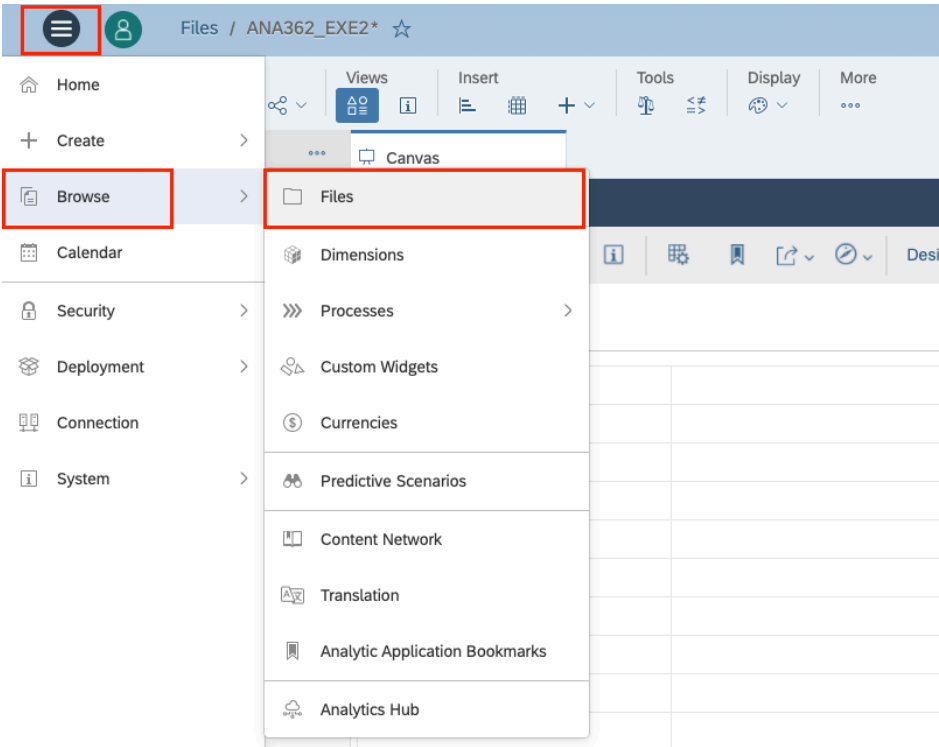
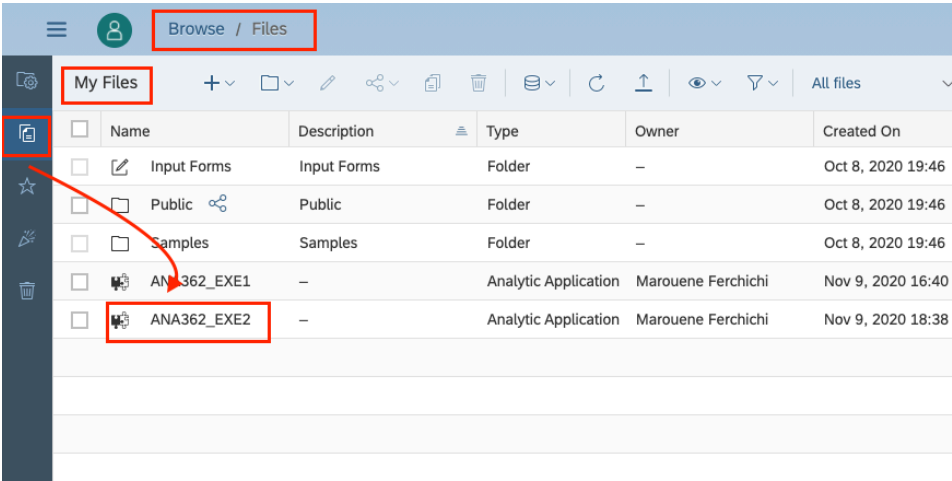
- Assign model to table and run the application
- Use the SelectDataModelDialog to select a Model at start time

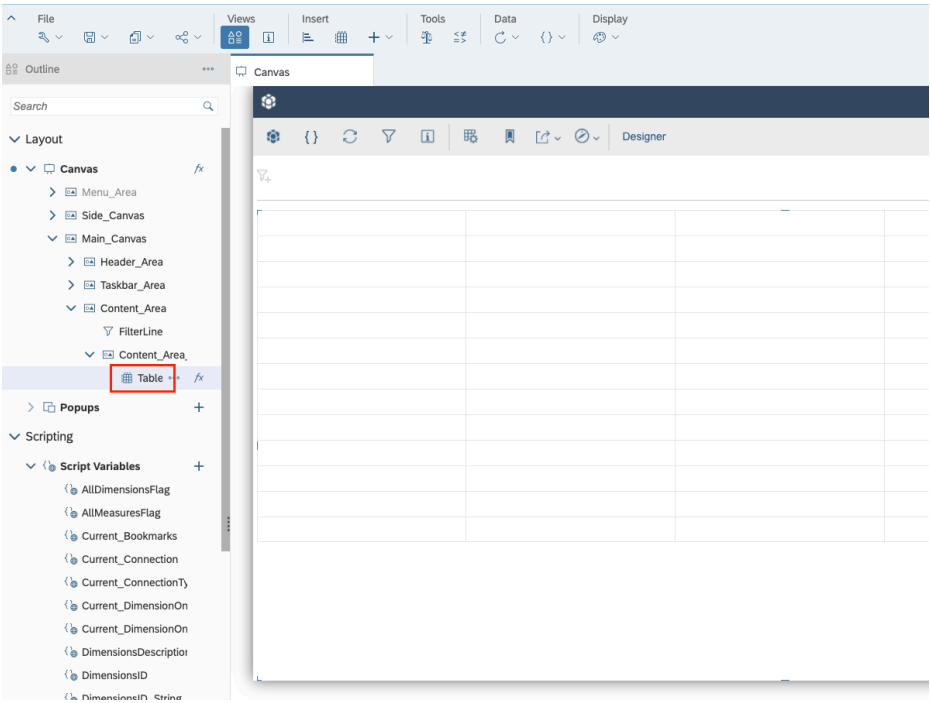
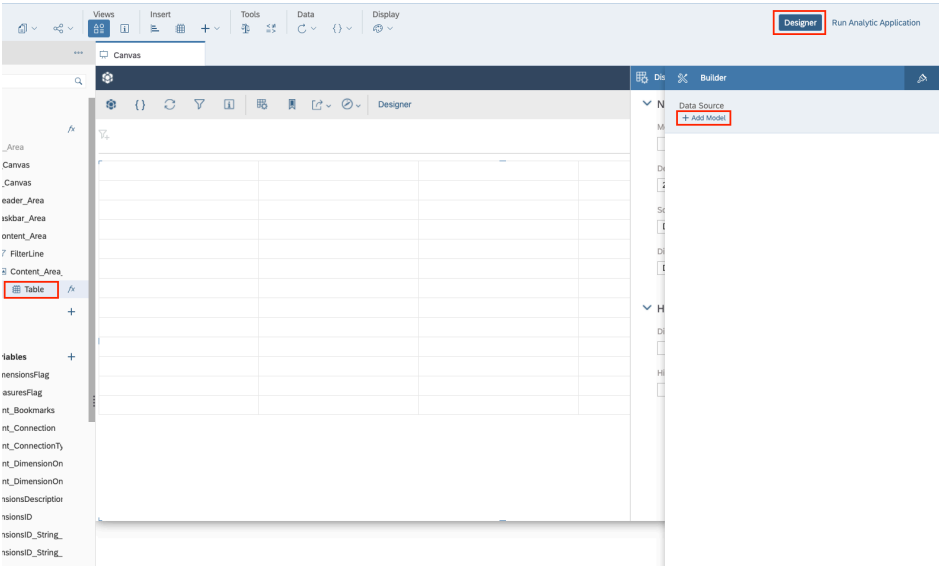
Part 1: Assign model to table and run the application & explore the different functionalities of the Generic Template.

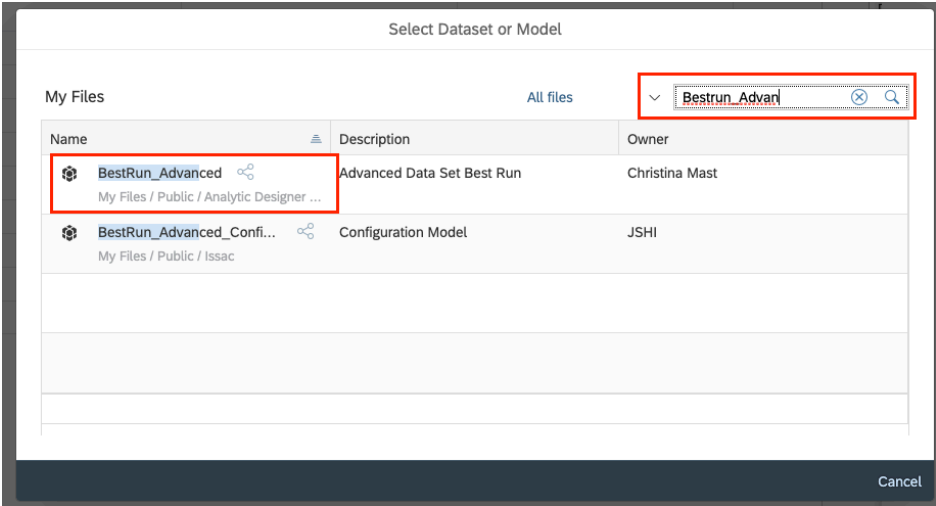
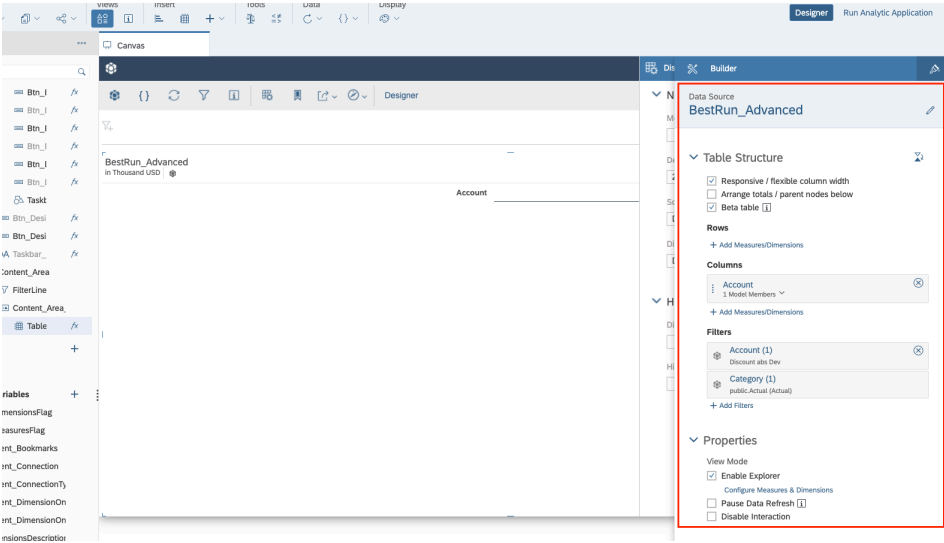
Explanation	Screenshot
1. Click on the Main Menu icon	
2. Select Browse and then Files to be able to select your analytical applications.	

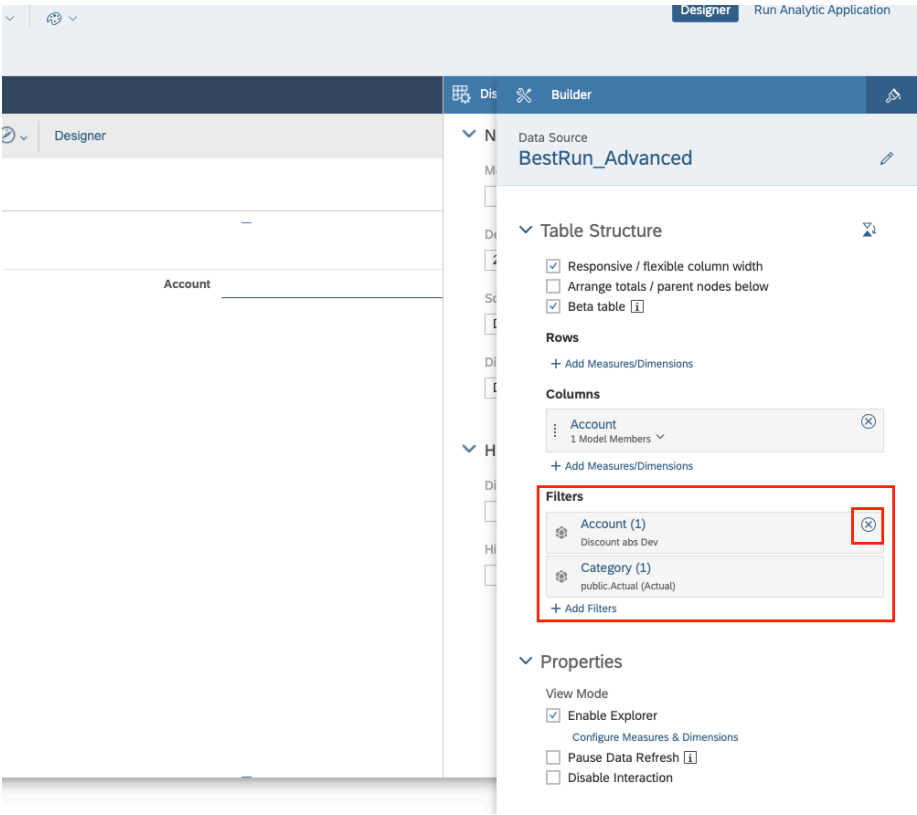
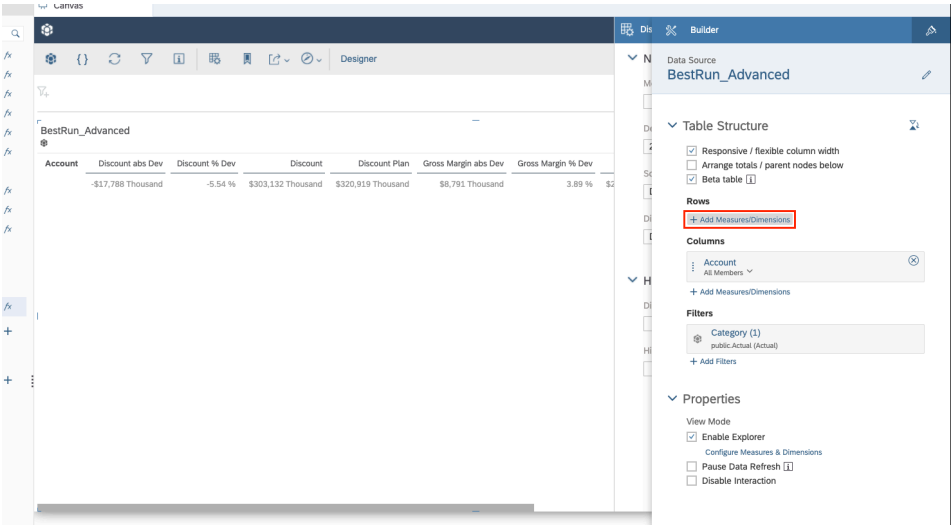
Explanation	Screenshot																																
3. Select the icon System , and then open the folder Public .	 <table><thead><tr><th></th><th>Name</th><th>Description</th><th>Type</th><th>Owner</th></tr></thead><tbody><tr><td><input type="checkbox"/></td><td>Input Forms</td><td>Input Forms</td><td>Folder</td><td>-</td></tr><tr><td><input type="checkbox"/></td><td>Public</td><td>Public</td><td>Folder</td><td>-</td></tr><tr><td><input type="checkbox"/></td><td>SAC Content</td><td>-</td><td>Folder</td><td>SY</td></tr><tr><td><input type="checkbox"/></td><td>Samples</td><td>Samples</td><td>Folder</td><td>-</td></tr><tr><td><input type="checkbox"/></td><td>Users</td><td>Users</td><td>Folder</td><td>-</td></tr></tbody></table>		Name	Description	Type	Owner	<input type="checkbox"/>	Input Forms	Input Forms	Folder	-	<input type="checkbox"/>	Public	Public	Folder	-	<input type="checkbox"/>	SAC Content	-	Folder	SY	<input type="checkbox"/>	Samples	Samples	Folder	-	<input type="checkbox"/>	Users	Users	Folder	-		
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4. Navigate to the folder ANA362	 <table><thead><tr><th></th><th>Name</th><th>Description</th><th>Type</th></tr></thead><tbody><tr><td><input type="checkbox"/></td><td>ANA362</td><td>-</td><td>Folder</td></tr><tr><td><input type="checkbox"/></td><td>Analytic Designer - Dev</td><td>SAP Analytic Cloud, Analytic Desig...</td><td>Folder</td></tr><tr><td><input type="checkbox"/></td><td>Collaborative Enterpr...</td><td>-</td><td>Folder</td></tr><tr><td><input type="checkbox"/></td><td>Derek</td><td>-</td><td>Folder</td></tr><tr><td><input type="checkbox"/></td><td>Models</td><td>-</td><td>Folder</td></tr></tbody></table>		Name	Description	Type	<input type="checkbox"/>	ANA362	-	Folder	<input type="checkbox"/>	Analytic Designer - Dev	SAP Analytic Cloud, Analytic Desig...	Folder	<input type="checkbox"/>	Collaborative Enterpr...	-	Folder	<input type="checkbox"/>	Derek	-	Folder	<input type="checkbox"/>	Models	-	Folder								
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5. Click on the exercise ANA362_EXE2 to open it and then you will save it with My Files folder.	 <table><thead><tr><th></th><th>Name</th><th>Description</th><th>Type</th></tr></thead><tbody><tr><td><input type="checkbox"/></td><td>ANA362BlackTheme</td><td>-</td><td>Them</td></tr><tr><td><input type="checkbox"/></td><td>ANA362_EXE1</td><td>-</td><td>Analy</td></tr><tr><td><input type="checkbox"/></td><td>ANA362_EXE1.txt</td><td>-</td><td>File</td></tr><tr><td><input type="checkbox"/></td><td>ANA362_EXE1_SOLUTION</td><td>-</td><td>Analy</td></tr><tr><td><input type="checkbox"/></td><td>ANA362_EXE2</td><td>-</td><td>Analy</td></tr><tr><td><input type="checkbox"/></td><td>ANA362_EXE2_SOLUTION</td><td>-</td><td>Analy</td></tr><tr><td><input type="checkbox"/></td><td>Explorer</td><td>-</td><td>Analy</td></tr></tbody></table>		Name	Description	Type	<input type="checkbox"/>	ANA362BlackTheme	-	Them	<input type="checkbox"/>	ANA362_EXE1	-	Analy	<input type="checkbox"/>	ANA362_EXE1.txt	-	File	<input type="checkbox"/>	ANA362_EXE1_SOLUTION	-	Analy	<input type="checkbox"/>	ANA362_EXE2	-	Analy	<input type="checkbox"/>	ANA362_EXE2_SOLUTION	-	Analy	<input type="checkbox"/>	Explorer	-	Analy
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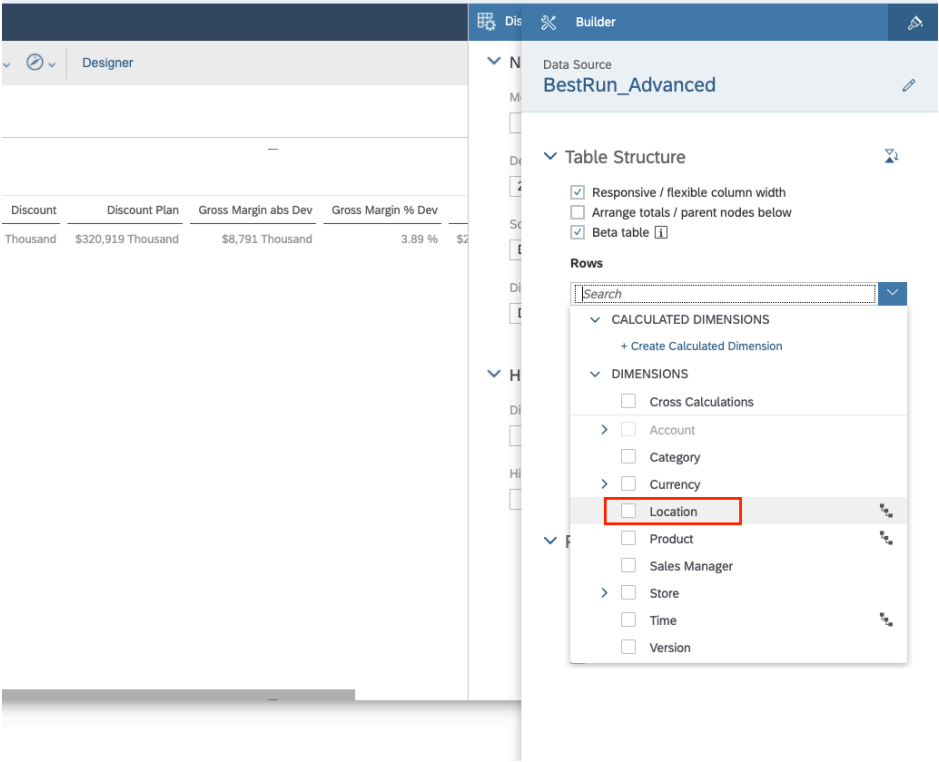
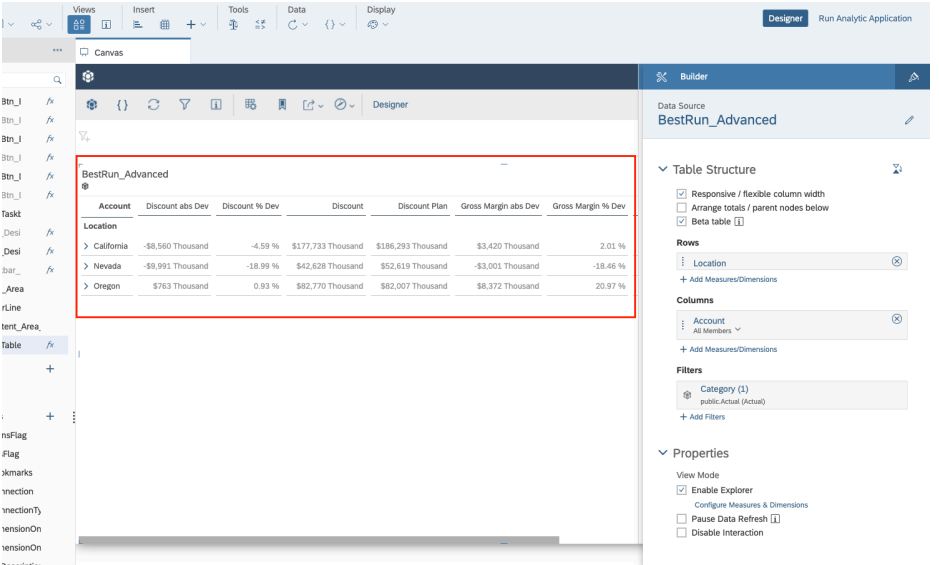
Explanation	Screenshot															
<div>6. Before you start the different steps of the exercise, first of all YOU SHOULD save the application under My Files and rename it so you can work on your own application.</div> <div>Click on the Save icon → Save As</div>	 <p>The screenshot shows the application's main interface. The 'File' menu is open, and the 'Save As...' option is highlighted with a red rectangle. The interface includes a top toolbar with icons for File, Views, Insert, Tools, Display, and More. A left sidebar shows a tree view of the application structure, including 'Layout', 'Canvas', 'Menu_Area', 'Menu_Export', 'Menu_Explorer', 'Side_Canvas', 'Side_Explorer', and 'Side_Expl'. The main workspace is a grid.</p>															
<div>7. Be sure that you are under the folder My Files.</div> <div>Press OK and the application will be saved under your private folder My Files</div>	 <p>The screenshot shows the 'Save Analytic Application As' dialog box. The 'My Files' folder is selected in the left sidebar. The main area displays a table of files and folders. The 'Name' field is filled with 'ANA362_EXE2'. The 'Description' field is empty. The 'OK' button is highlighted with a red arrow.</p> <table><tr><th>Name</th><th>Description</th><th>Owner</th></tr><tr><td>Input Forms</td><td>Input Forms</td><td>-</td></tr><tr><td>Public</td><td>Public</td><td>-</td></tr><tr><td>Samples</td><td>Samples</td><td>-</td></tr><tr><td>ANA362_EXE1</td><td>-</td><td>Marouene Ferchichi</td></tr></table>	Name	Description	Owner	Input Forms	Input Forms	-	Public	Public	-	Samples	Samples	-	ANA362_EXE1	-	Marouene Ferchichi
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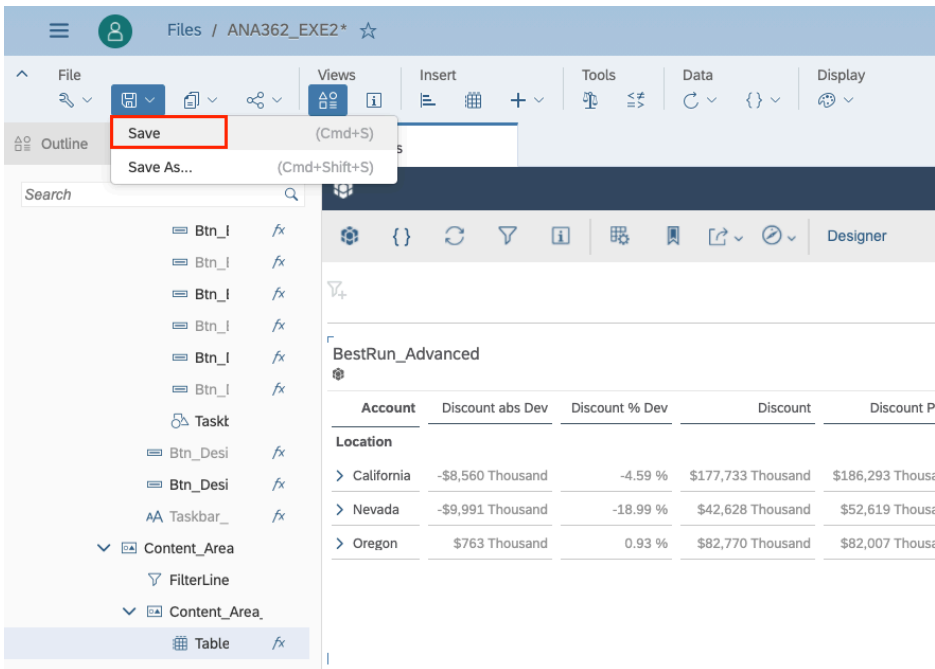
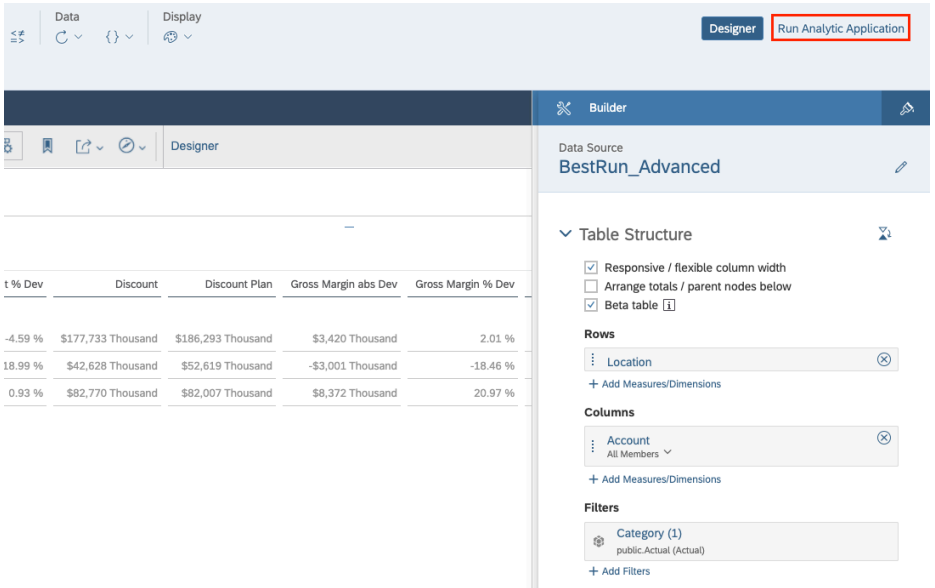
Explanation	Screenshot
8. Now you can navigate back to My Files again in order to see your application.	
9. Click on the exercise ANA362_EXE2 to open it within My Files folder.	

Explanation	Screenshot
10. As next, under Canvas → Main_Canvas → Content_Area , select the Table .	
11. Toggle the Designer panel to the Builder panel and click Add Model	

Explanation	Screenshot
<p>12. Now you need to select a data source. Please use BestRun_Advanced as data source.</p> <p>Please use the search bar in order to find the data source faster; Write BestRun_Advan...</p> <p>13. Select BestRun_Advanced</p>	
<p>14. As you can see the data source was added to the Table and we can now configure the table structure.</p>	

Explanation	Screenshot
15. Let's remove the Filter for Account . Click the icon x to delete the filter.	
16. As next we will add a dimension to the rows. Click +Add Measures/Dimensions	

Explanation	Screenshot
17. Select Location as a dimension.	 <p>The screenshot shows the Tableau Builder interface. On the left, a table is displayed with columns: Discount, Discount Plan, Gross Margin abs Dev, and Gross Margin % Dev. The data rows show values for 'Thousand', '\$320,919 Thousand', '\$8,791 Thousand', and '3.89 %'. On the right, the 'Table Structure' panel is open, showing a list of dimensions. The 'Location' dimension is highlighted with a red box. The 'Rows' section is also visible, showing a search bar and a list of dimensions including 'CALCULATED DIMENSIONS', 'DIMENSIONS', 'Cross Calculations', 'Account', 'Category', 'Currency', 'Location', 'Product', 'Sales Manager', 'Store', 'Time', and 'Version'.</p>
18. As shown, we added the Location to our table. As next we save the application.	 <p>The screenshot shows the Tableau Builder interface. On the left, a table is displayed with columns: Account, Discount abs Dev, Discount % Dev, Discount, Discount Plan, Gross Margin abs Dev, and Gross Margin % Dev. The data rows show values for 'California', 'Nevada', and 'Oregon'. On the right, the 'Table Structure' panel is open, showing a list of dimensions. The 'Location' dimension is highlighted with a red box. The 'Rows' section is also visible, showing a search bar and a list of dimensions including 'CALCULATED DIMENSIONS', 'DIMENSIONS', 'Cross Calculations', 'Account', 'Category', 'Currency', 'Location', 'Product', 'Sales Manager', 'Store', 'Time', and 'Version'. The 'Table' is highlighted in the 'Canvas' section.</p>

Explanation	Screenshot																				
19. Click on the Floppy Disc icon and select Save .	 <p>The screenshot shows the application's File menu with the 'Save' option highlighted. The 'Save As...' option is also visible. The application is displaying a table titled 'BestRun_Advanced' with columns: Account, Discount abs Dev, Discount % Dev, Discount, and Discount P. The table data is as follows:</p> <table> <tr> <th>Account</th><th>Discount abs Dev</th><th>Discount % Dev</th><th>Discount</th><th>Discount P</th></tr> <tr> <td>California</td><td>-\$8,560 Thousand</td><td>-4.59 %</td><td>\$177,733 Thousand</td><td>\$186,293 Thouse</td></tr> <tr> <td>Nevada</td><td>-\$9,991 Thousand</td><td>-18.99 %</td><td>\$42,628 Thousand</td><td>\$52,619 Thouse</td></tr> <tr> <td>Oregon</td><td>\$763 Thousand</td><td>0.93 %</td><td>\$82,770 Thousand</td><td>\$82,007 Thouse</td></tr> </table>	Account	Discount abs Dev	Discount % Dev	Discount	Discount P	California	-\$8,560 Thousand	-4.59 %	\$177,733 Thousand	\$186,293 Thouse	Nevada	-\$9,991 Thousand	-18.99 %	\$42,628 Thousand	\$52,619 Thouse	Oregon	\$763 Thousand	0.93 %	\$82,770 Thousand	\$82,007 Thouse
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20. Click Run Analytic Application to see how our Generic Template look like, and let's explore the different functionalities available.	 <p>The screenshot shows the application's Designer tab with the 'Run Analytic Application' button highlighted. The application is displaying a table titled 'BestRun_Advanced' with columns: t % Dev, Discount, Discount Plan, Gross Margin abs Dev, and Gross Margin % Dev. The table data is as follows:</p> <table> <tr> <th>t % Dev</th><th>Discount</th><th>Discount Plan</th><th>Gross Margin abs Dev</th><th>Gross Margin % Dev</th></tr> <tr> <td>-4.59 %</td><td>\$177,733 Thousand</td><td>\$186,293 Thousand</td><td>\$3,420 Thousand</td><td>2.01 %</td></tr> <tr> <td>18.99 %</td><td>\$42,628 Thousand</td><td>\$52,619 Thousand</td><td>-\$3,001 Thousand</td><td>-18.46 %</td></tr> <tr> <td>0.93 %</td><td>\$82,770 Thousand</td><td>\$82,007 Thousand</td><td>\$8,372 Thousand</td><td>20.97 %</td></tr> </table>	t % Dev	Discount	Discount Plan	Gross Margin abs Dev	Gross Margin % Dev	-4.59 %	\$177,733 Thousand	\$186,293 Thousand	\$3,420 Thousand	2.01 %	18.99 %	\$42,628 Thousand	\$52,619 Thousand	-\$3,001 Thousand	-18.46 %	0.93 %	\$82,770 Thousand	\$82,007 Thousand	\$8,372 Thousand	20.97 %
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Explanation	Screenshot
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21. Congratulations! You were able to assign a Model to the table and achieved the first part of the Exercise 2.
Let's explore together to the different functionalities available in tool bar:

Marouane Ferchichi, Oct 13, 2020

Designer

BestRun_Advanced

Account	Discount abs Dev	Discount % Dev	Discount	Discount Plan	Gross Margin abs Dev	Gross Margin % Dev	Gross Margin	Gross Margin Plan	Original Sales Price abs Dev	Original Sales Price % Dev	Original Sales Price	Original Sales Price Plan	Quantity sold abs Dev	Quantity so
Location														
> California	-\$8,580 Thousand	-4.59 %	\$177,733 Thousand	\$186,293 Thousand	\$3,420 Thousand	2.01 %	\$173,482 Thousand	\$170,062 Thousand	-\$51,201 Thousand	0 k	\$723,452 Thousand	\$774,653 Thousand	-\$5,341.37 Thousand	
> Nevada	-\$9,991 Thousand	-18.99 %	\$42,628 Thousand	\$52,619 Thousand	-\$3,001 Thousand	-18.46 %	\$13,254 Thousand	\$16,255 Thousand	\$13,678 Thousand	0 k	\$114,506 Thousand	\$100,828 Thousand	-\$772.65 Thousand	
> Oregon	\$763 Thousand	0.93 %	\$82,770 Thousand	\$82,007 Thousand	\$8,372 Thousand	20.97 %	\$48,302 Thousand	\$39,930 Thousand	\$24,700 Thousand	0 k	\$291,152 Thousand	\$266,452 Thousand	-\$2,411.33 Thousand	

22. Click the button **Designer** and see what will happen.



23. As shown, by clicking the **Designer** button, a new panel will be opened.

In this **Designer Panel** we can see all the **Available Items (Accounts & Dimensions)** of our **Data source**.

Marouane Ferchichi, Oct 13, 2020

Designer

BestRun_Advanced

Account	Discount abs Dev	Discount % Dev	Discount	Discount Plan	Gross Margin abs Dev	Gross Margin % Dev	Gross Margin	Gross Margin Plan	Original Sa
Location									
> California	-\$8,580 Thousand	-4.59 %	\$177,733 Thousand	\$186,293 Thousand	\$3,420 Thousand	2.01 %	\$173,482 Thousand	\$170,062 Thousand	\$
> Nevada	-\$9,991 Thousand	-18.99 %	\$42,628 Thousand	\$52,619 Thousand	-\$3,001 Thousand	-18.46 %	\$13,254 Thousand	\$16,255 Thousand	\$
> Oregon	\$763 Thousand	0.93 %	\$82,770 Thousand	\$82,007 Thousand	\$8,372 Thousand	20.97 %	\$48,302 Thousand	\$39,930 Thousand	\$

Available Items

Accounts

- Discount abs Dev
- Discount % Dev
- Discount
- Discount Plan
- Gross Margin abs Dev
- Gross Margin % Dev
- Gross Margin
- Gross Margin Plan
- Original Sales Price abs Dev
- Original Sales Price % Dev
- Original Sales Price
- Original Sales Price Plan
- Quantity sold abs Dev
- Quantity sold % Dev
- Quantity sold
- Quantity sold Plan

Dimensions

- Currency
- Location
- Product
- Sales Manager
- Store
- Store_CatId702a30183K
- Version
- Category
- Account Type
- Currency
- Person Responsible
- Store_DisplayName
- Store_IDCID
- Store

Builder

Data Source

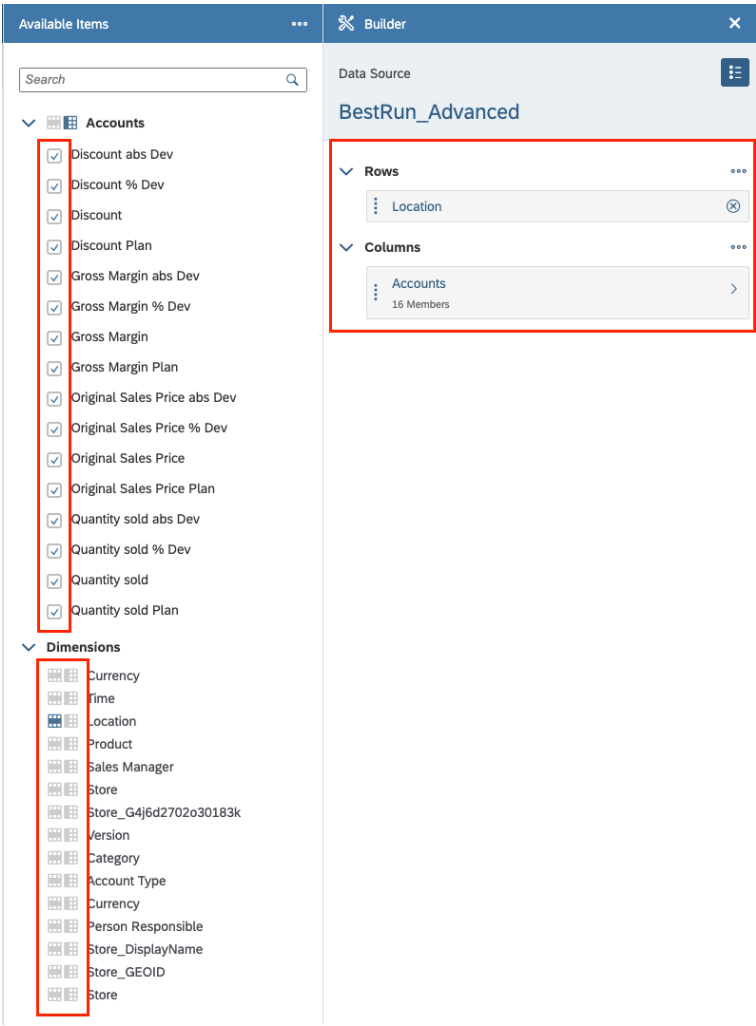
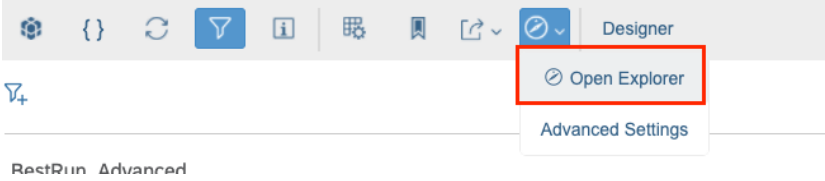
BestRun_Advanced

Rows

- Location

Columns

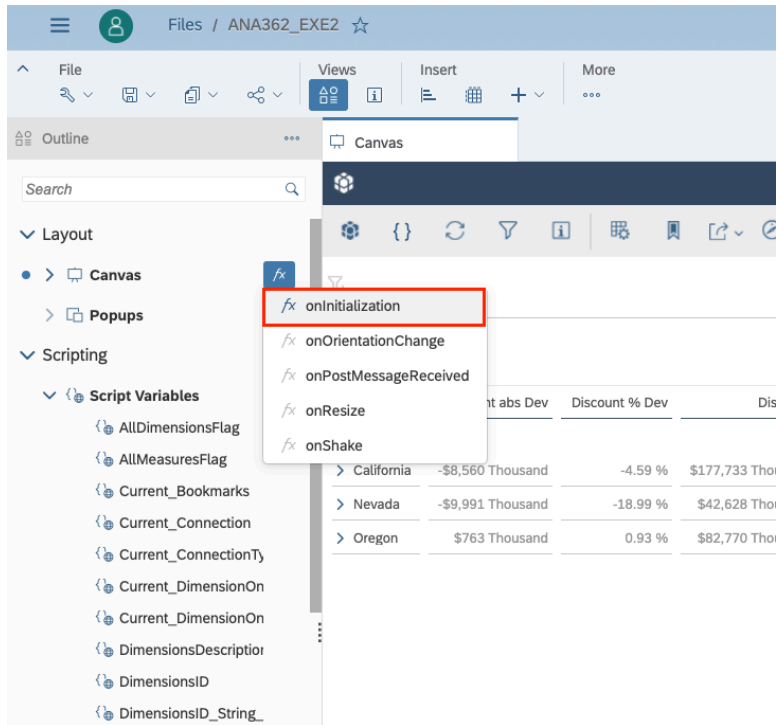
- Accounts
- 10 Members

Explanation	Screenshot
<p>24. You are able to select/deselect Measures. You can as well your dimension vertically or horizontally.</p> <p>You can drag and drop between rows and columns</p> <p>Feel free to explore it!</p>	
<p>25. Click on Open Explorer icon</p>	

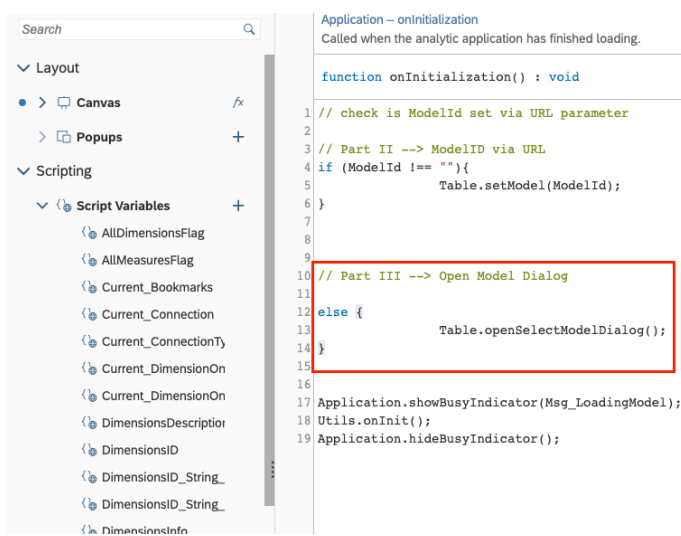
Explanation	Screenshot
26. You can also select/deselect Measures and Add dimensions.	
27. You can export your table to PDF by clicking the Export icon.	
28. By clicking the bookmark icon, a new panel will be opened, and you can either add/modify a public or a private bookmark.	
29. You can change the Number Format of the available measures, by clicking the icon Display .	

Part 2: Use the SelectDataModelDialog to select a Model at Start time.

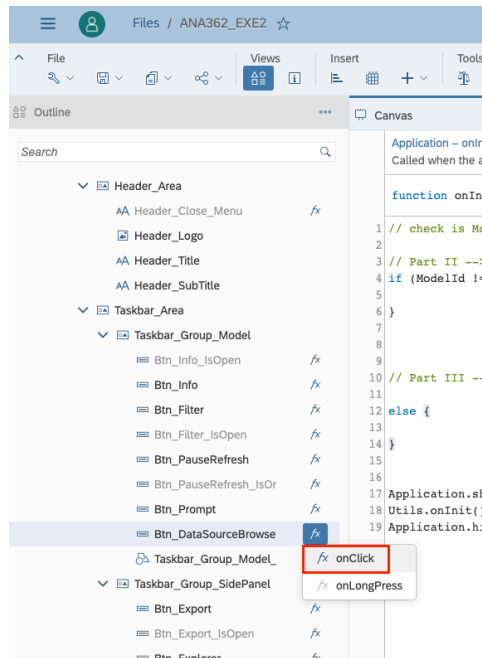
1. Let's go back to the application ANA362_EXE2.
2. Go to the outline panel and click **fx** of **Canvas** and select **onInitialization** (event)



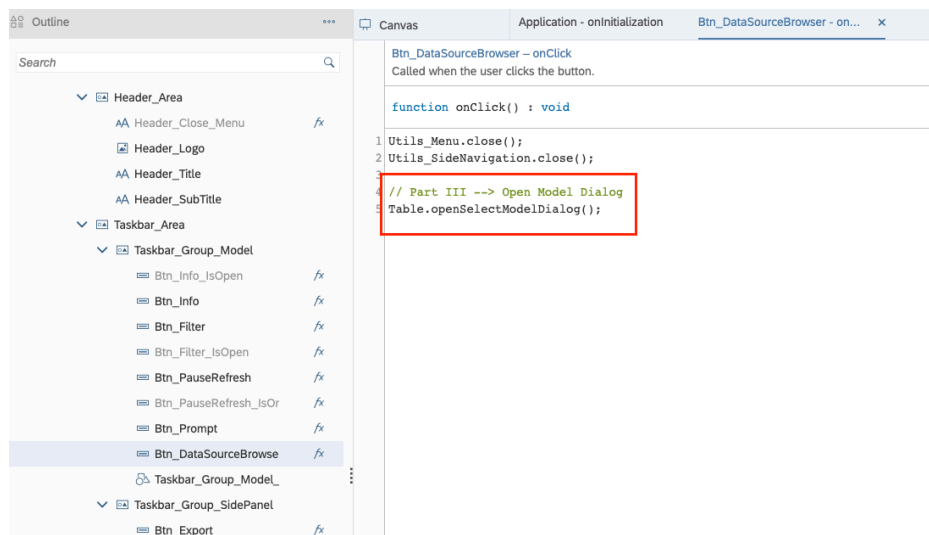
3. Add the script below under the comment: *//Part III --> Open Model Dialog*
- ```
else {
 Table.openSelectModelDialog();
}
```



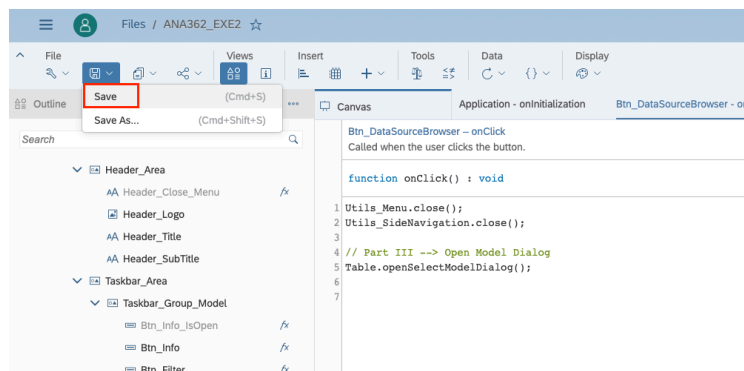
4. Go to the **Btn\_DataSourceBrowser** in the outline and click **fx** and select **onClick** (event).



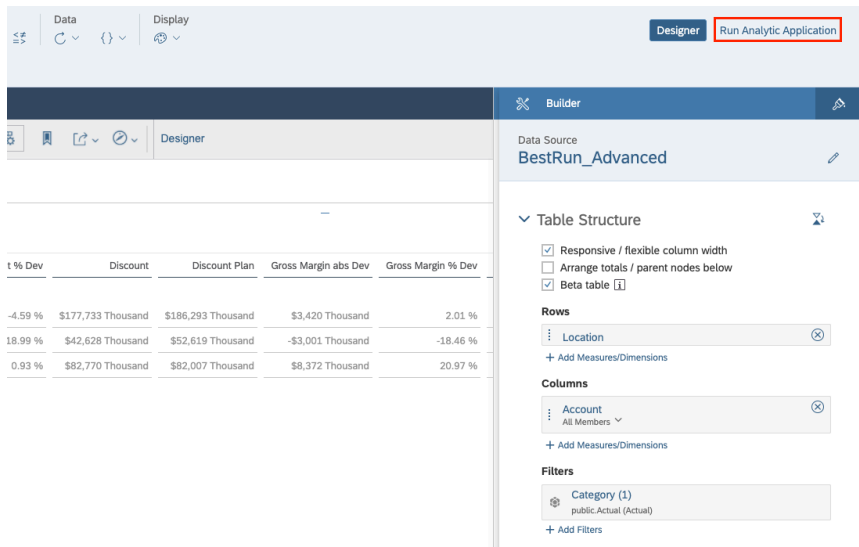
5. Add the script below under the comment *//Part III --> Open Model Dialog*
- Table.openSelectModelDialog();**



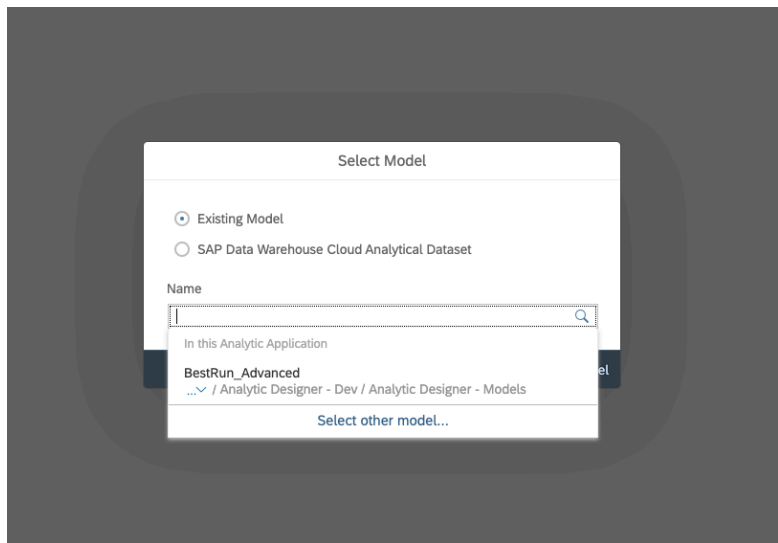
6. Click on the **Floppy Disc** icon and select **Save**.



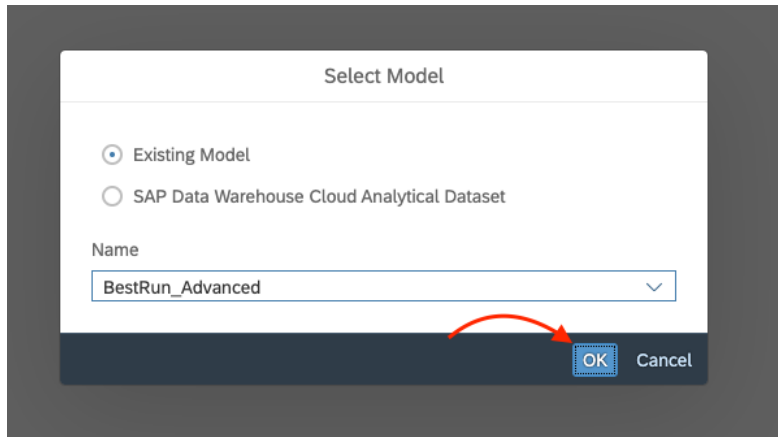
7. Click **Run Analytical Application**



8. Now you are able to select any Model available in Sap Analytics Cloud.



9. Click **OK** to confirm your selected Model.



**Congratulations! You Have completed the Exercise 2.**

## ***Summary***

**You Have Successfully Completed the Exercise!**

**You are now able to:**

- Assign Model to Table and run the application
- Use and explore the Generic Template with all his available features
- Use the Select Data Model Dialog in order to select a Model at Start Time