For more details see how the Custom Reports Builder extension works.

Guide for Custom Reports Builder for Magento 2

Build an unlimited variety of custom reports based on any available store data. Analyze each aspect of your store performance and build an efficient sales strategy. Arrange all needed columns in the most convenient order. Apply filters, set the time intervals, and visualize the data with charts.

- Create an unlimited number of custom reports
- Use any available information for your reports
- Use prebuilt report templates
- Manage all reports in a convenient grid
- Visualize data with charts and apply filters
- Easily export reports according to applied filters

Custom Reports Builder extension is also included in **Pro** and **Premium** versions of **Advanced Reports solution**.

General settings

To adjust the Custom Reports Builder general settings, please navigate to **Stores** \rightarrow **Configuration** \rightarrow **Amasty Extensions** \rightarrow **Custom Reports Builder**.

Here you can select some unnecessary entities, that you want to exclude from your reports. Disabling unused entities will speed up report edit page load.

General

		_
Excluded Entities	Catalog Category (Main Entity)	-
(Siopai)		
	Catalog Product (Main Entity)	
	Creditmemo (Main Entity)	
	Creditmemo Item	
	Customer (Main Entity)	
	Customer Address	
	Invoice (Main Entity)	
	Invoice Item	
	Order Entity (Main Entity)	_
	Order Address	×
		1

Selected entities will be unavailable in Report Builder. Disabling unused entities will speed up report edit page load.

Here you can also configure the options for updating stock data.

Stock Data		\odot
	Update Stock Data	
Update Stock Data Automatically [global]	Yes	
	When set to Yes, the extension will update stock data on a set schedule. Otherwise, extension data should be updated manually using the button or console command: bin/magento ambuilder:stock:update	
Frequency [global]	Daily	
Start Time [global]	04 • : 00 • : 00 •	

You can update the stock data manually by hitting the **Update Stock Data** button, or you can automate the process:

Update Stock Data Automatically - When set to Yes, the extension will update stock data on a set schedule. Otherwise, extension data should be updated manually using the button or console command: *bin/magento ambuilder:stock:update*.

Frequency - Here you can set the update frequency (daily, weekly, monthly).

Start Time - In this tab, you can set the exact start time for your regular stock data updates.

The updated product stock data will be used in the **Product Stock entity** in your reports.

Conveniently view and manage reports

When the extension is installed, please navigate to **Amasty** \rightarrow **Custom Reports Builder** \rightarrow **Amasty Custom Report Builder**. Here you can see the **Custom Reports** grid with the **5 prebuilt reports** that we have created for your convenience. Use these reports as they are, duplicate or flexibly modify any of them according to your needs. Also, here you can create and manage your new custom reports.

💄 demouser 🗸 🔪 **Custom Reports** Add New Report **Filters** \mathbf{O} Default View Columns 👻 12 records found Actions • 20 • per page of 1 Report ID Action Report Name • 1 Cart Price Rules discount overview Select 💌 2 Customer Performance Overview Select • 3 Orders Overview per period Select • 4 Product Performance (best performers: over 500{currency} revenue from Complete orders) Select 🔺 Edit 5 Returning Customers (more than 3 orders, more than 500{currency} spent) View 6 Gym Products Sales Report Duplicate 7 Product Refunds Report Delete 9 Customers who bought Summit Watch in a particular period Select • 10 Average Order Amount per Customer Select •

Also, each **report view page** is equipped with a **Reports Menu**. Here you can conveniently switch between various reports, edit them, and also create new ones.

<u>a</u>masty

Reports				Custom	Reports B	Builder fo	or magente	D2 EXT	ENSION P	AGE \rightarrow
Reports									1 d	emouser 👻
Add New Report										
Cart Price Rules discount overv	Custo	mer P	erforn	nance	Overv	view		← Bac	k Edi	t report
Customer Performance Overvi	All Store	liour	-							
Orders Overview per period	All Store	VIEWS	•							
Returning Customers (more th							Filters	A Column		Export -
Gym Products Sales Report						1	ritters	¥ column		export •
Product Refunds Report	271 record	ls found			2	20 -	per page	<	1 of	14 >
Customers who bought Summ	F 11	F 1					7.10			6 1
Average Order Amount per Cu	ID †	Name	Name	Date of Birth	Country	Order ID	Ordered	Subtotal	Paid	Total
	1004	Padgett	Sherry		Thailand	1	16.0000	724.0000	579.2000	579.2000
	1003	Beck	Dohrman		Morocco	1	13.0000	617.7500		494.2000
	999	Theadora	Napleton		Portugal	1	15.0000	867.0000		693.6000
	992	Worth	Brosetti		China	1	24.0000	803.0000	642.4000	642.4000
	991	Dulcea	Kleimt		Russia	1	19.0000	855.0000		684.0000
	984	Wendelin	McClancy		Brazil	1	10.0000	441.0000		352.8000
	979	Verile	Dibble		Egypt	2	29.0000	1199.970	991.5800	495.7900
	978	Fifi	McCard		China	1	15.0000	682.9700	546.3800	546.3800
	976	Solomon	Scramma		Indonesia	2	34.0000	1568.990	548.8000	627.5950
	973	Ted	Cockram		China	1	20.0000	966.0000	772.8000	772.8000

You can also **Export Reports** in the CSV format from each report view page. Please, keep in mind, that the bigger a report is the longer the process will take.

								_	
Custor	ner Pe	rforma	ince Ov	verviev	V		← B	ack E	dit report
All Store V	iews	•						N	
						Filters	🔅 Colu	mns 🗸 🖬	Export 🔺
271 records	found				20 -	per page	<	CSV (π14 >
Entity ID †	First Name	Last Name	Date of Birth	Country	Order ID	Total Qty Ordered	Subtota	Cancel	Export
1004	Padgett	Sherry		Thailand	1	16.0000	724.0000	579.2000	579.20000
1003	Beck	Dohrmanr		Morocco	1	13.0000	617.7500		494.20000

You can conveniently **export data** based on **filters applied** on both the Edit Report page and the View Report page.

How to build a report

To create a new report, please hit the **Add New Report** button.



1. Choose the main entity to start report formation

Name - Specify the name for your new report, that will be visible in the reports grid.

Main Entity - It is a core entity, on the basis of which the report data will be aggregated. For now, you may choose one of 6 main entities:

- Catalog Product
- Credit Memo
- Customer
- Invoice
- Order Entity
- Shipment

For Magento Enterprise Edition, **RMA entity** is also available. It provides store administrators with the functionality of building reports on various aspects of product return. How to understand **what main entity should be chosen**?

Before choosing the main entity, think about the main objectives of your report. For example, if you need some product breakdown and their performance by specific criteria - you should choose the Catalog Product main entity thus building your report from the product. Or if you need to analyze particular sales aspects - you should choose the Order Entity thus building your report from the order.

After you choose the main entity, you will see the option (column) block available for this entity. Each main entity has a specific block of options. For example, the Catalog Product entity has the following options block:

Main Entity * Catalog Product 🗸 😯

Available options

Chosen options

To activate the widget, drag (or double-click) the column you need to the edit field on the right

Start typing to find the column	م
Catalog Product -	View All (+67)
Product ID	• count int
Creation Time	• max timestamp
Product Name	• group_concat varchar
Price	• sum decimal
SKU	• group_concat varchar
Stock Status	• max int
Attribute Set ID	• group_concat int
Type ID	• max varchar
Has Options	• max int
Required Options	• max int
Update Time	• max [timestamp]
Activity	• max varchar
Category Gear	• max varchar
Climate	• max varchar
Collar	max varchar

Add the columns here that you would like to configure to be displayed on the report page

How to?

				Cle	ar all
Product ID		τŲ	Ŧ		1

The logic of the Custom Reports Builder extension is that it adds entities to the report that have all the parameters specified in the report. If an order, for example, does not have a Country ID, then this order will not be displayed in the statistics and export file.

The main block of options (of the same name as the main entity) is highlighted. Also, each main entity has its own main option, which automatically appears in the right column, after you choose the main entity. The main option can't be removed from the report as it is the basic option relatively which the report is being built. But you can use time periods as the main column. Please, check the Use Periods section of this guide to know how to do it.

2025/05/07 14:37	9/48	Guide for Custom Reports Builder for Magento 2
Available options		Chosen options
To activate the widget, drag (or to the edit field on the right	double-click) the column you need	Add the columns here that you would like to configure to be displayed on the report page
Start typing to find the colum	n Q	How to?
Catalog Product -		Clear all
Catalog Category -		📔 Product ID 🖀 🗎 🏞 🔻 🖀
Order Item -		1

Also, when you choose the Main Entity, you can see that a list of Secondary Entities becomes available.

Available options	Chosen options	
To activate the widget, drag (or double-click) the column you need to the edit field on the right	Add the columns here that you would like to configure to be displayed on the report page	
Start typing to find the column Q	How to?	
Catalog Product -	Clear all	
Catalog Category	📔 Product ID 🖀 🖻 ঝ 🔻 👁 🛊	
Order Item -		
Order Entity -		
Order Address -		
Customer Address		
Customer -		
Creditmemo -		
Creditmemo Item -		
Invoice -		
Invoice Item -		
Shipment -		
Shipment Item -		

You can add the options (columns) to your report as from the Main Entity so from the Secondary ones.

The list of entities for the main entity is limited only by the fact that the requests for secondary entities are heavier. This means that the load on the server is greater, but this doesn't mean that secondary entities cannot be used as main ones. If the capacity of the server allows, or the store is not large, then the customer can make any entity he needs the main one in order to create a report on its basis.

To do this, you need to add the **primary="true"** mark to the XML file of the corresponding entity in the entity name line. The path to the entity files is as follows:

app/code/Amasty/ReportBuilder/etc/ambuilder_entity_scheme. Next, open the file of the entity that you want to make the main one and insert primary="true" in the entity name line.

```
• • •
                                       catalog_category.xml
<?xml version="1.0"?>
<config xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="urn:amasty:module:Amasty_ReportBuilder:etc/entity_scheme.xsd">
    <amasty_report_builder_entities>
       <entity name="catalog_category" eav="true" primary="true"</pre>
           <title>Catalog Category</title>
            <main_table>catalog_category_entity</main_table>
           <columns>
                <column name="entity_id" primary="true">
                   <title>Category ID</title>
                </column>
                <column name="name" eav_attribute="true">
                    <title>Category Name</title>
                </column>
                <column name="attribute_set_id">
                   <hidden>true</hidden>
                </column>
           </columns>
           <relations>
                <relation name="catalog_product" type="table">
                    <column>entity_id</column>
                    <reference_column>entity_id</reference_column>
                    <relation_table>catalog_category_product</relation_table>
                   <relation_column>category_id</relation_column>
                    <relation_reference_column>product_id</relation_reference_column>
                    <relationship_type>many_to_many</relationship_type>
                </relation>
```

2. Add the required data to the report

To add any of the **Available options** to the report, just expand the options blocks and drag and drop the options from the required blocks to the **Chosen options** tab. When you drop the option to the right column, it becomes disabled at the left one.

Available options

To activate the widget, drag (or double-click) the column you need to the edit field on the right

Chosen options

Add the columns here that you would like to configure to be displayed on the report page

How to?

Q

log Product			r			 			-
andgrindadet	Vie	ew All (+67)	_					Cle	ea
roduct ID	• count	int		Product ID	· 2	↑↓	7	۲	
reation Time	• max ti	imestamp		Product Name	¥	↑↓	Y	۲	
roduct Name	• group_concat	varchar		Price	¥	↑↓	7	۲	
Price	• sum	decimal							
SKU	• group_concat	varchar							
Stock Status	• max	int							
Attribute Set ID	• group_concat	int							
Type ID	• max	varchar							
Has Options	• max	int							

Also, you can place the needed columns to **Chosen options** section with a double click.

If you don't see the needed option, you can use the **Search Field**. Just start typing and the module will show you all the options that match your query:

Available options

price		
Catalog Product 🔺		
Minimal Price	• sum	decimal
Minimum Advertised Price	• sum	decimal
Display Actual Price	• max	varchar
Dynamic Price	• count	int
Price View	• max	int

To activate the widget, drag (or double-click) the column you need



You can set custom titles to the chosen columns for more convenience or to avoid confusion on edit and view pages caused by the same names of entities' columns stored in the DB.

vailable options	e options Chosen options							
activate the widget, drag (or doubl the edit field on the right	e-click) the column you need	Add the columns here that y displayed on the report page	ou would	like t	to cor	nfigu	re to	be
Start typing to find the column	٩	How to?						
Catalog Product 🔺	Hide						C	ear a
Product ID	• count int	II Product ID		/	t↓			
Creation Time	• max timestamp	ii Product Name						
Product Name	• group_concat varchar	:: Price New	y		↑↓	Ŧ	ø	Ŷ
Price	• sum decimal	\checkmark \times						

2.1 Add custom columns to the report (available only in Advanced Reports Premium)

With Advanced Reports Premium solution you get the additional reports customization functionalities for your Custom Reports Builder: add custom columns, within which you can calculate and combine the functions from other existing columns. This way, you can create complex columns that do not exist in the data: for example, merge the first and last names into one column, apply mathematical formulas to calculate profit, specific taxes and so on.

To add a custom column to your report just drag and drop the **'Custom Column'** option from the top of Available options tab to the Chosen options tab.

Available options

To activate the widget, drag (or double-click) the column you need to the edit field on the right

Start typing to find the column...

Chosen options

Add the columns here that you would like to configure to be displayed on the report page

How to?

Q

Custom column		custom
Eustomer 🔺	,	View All (+17)
Entity ID	• count	int
Created At	• max	timestamp
Group ID	• max	int
Website ID	• max	int
Is Active	• max	int
Disable automatic group change based on VAT ID	• max	int

					Cle	ear al
-	Entity ID	Ж	↑↓	7	۲	ŧ
	Group ID	Ж	↑↓	Ŧ	۲	ŧ
:	Email	Ж	↑↓	7	۲	÷
	LINGI		IΨ	,	~	
1						
1						

Then, click to expand the custom column to configure it.

Chosen options

Add the columns	here that you	would like to	configure to be
displayed on the	report page		

How to?



After expanding the column you can see the constructor, which proposes you to choose the elements for adding to your custom column: New Column, New Input or New Brackets.



Chosen options

Add the columns here that you would like to configure to be displayed on the report page

How to?

New Column , Ne	w Input	or Ne	ew Bra	ckets	5	
)
Custom column	• 8					
Product Name						
Creation Time						
			↑↓			

New Column - allows you to add any existing entity to your custom column. When you choose this element, the special drag box opens, where you can move the needed column from the Available options tab.

New C	Column ,	New In	put o	r Nev	v Brack	ets
 1						
/				Can	cel	Save

total

Available options

To activate the widget, drag (or double-click) the column you need to the edit field on the right

Chosen options

Add the columns here that you would like to configure to be displayed on the report page

						-	
н	\sim	17	١I	- th		1	
	v	v	v		v		

		_				
ustom column	custom					Cle
		i			10 AV	
er Entity			Group ID			
ase Grand Total	• sum decimal		Email			
ase Subtotal	• sum decimal		Custom column	A 8		
ase Subtotal Canceled	• sum decimal					
ase Sub <mark>total</mark> Invoiced	• sum decimal	Base Gra	and Total	• sum	decimal	ar, date,
ase Sub <mark>total</mark> Refunded	• sum decimal					i
ase Total Canceled	• sum decimal				Cancel	Save
Base Total Invoiced	• sum decimal					

 \times

New Input - allows you to add text or number to your custom column.

 Custom column New Column New Input or New Brackets
Cancel Save
Custom column 🔺 🐮 📄 🕦 🔻 🌒 👕
Type Text or Type Number
Cancel Save

Operators - After you've selected the first element for your custom column expression, you should choose the operator to form your calculation or combination. Click the gear button to choose the operator you need:

	ISCOTT	olumn			
В	ase Gr	and Total	•	sum dec	cimal 🍵
		[*		
		Arithmetic			Save
		÷×			
		String	_		
		>			

After you choose the operator type, the constructor will propose you to choose the next element for your custom column expression, and so on.

Custom column		
Base Grand Total	• sum de	cimal 👕
New Column , New	÷ Input or New Br	ackets
	Cancel	Save

New Brackets - choose this option if you need to build complex compound expressions with multiple columns and inputs. To add the brackets just click on the option title.

Custom column 🔺 🐮 💷 🛝 🔻 🔍 👕
New Column , New Input or <u>New Brackets</u>
Cancel Save
Custom column 🔺 🐮 📄 ᠬ 🔻 👁 🝵
[New Column , New Input
1
Cancel Save

Add the needed expression inside the brackets, and the needed columns or inputs outside the brackets.

See our example:

Total Profit per Product - Custom Column	▲ 꿈 ฿ ↑↓ ♥ © 🛊
Row Total	• sum decimal 👕
[
Cost	• sum decimal 👕
	×
Qty Ordered	• sum decimal 👕
	•
]	*
Tax Amount	• sum decimal 👕
	\$
	Cancel Save

In this example our custom column calculates the values of such existing entities as Row Total, Cost, Quantity Ordered and Tax Amount.

Click **Save** when your custom column is ready and it will be added to your report.

3. Use periods

Use periods setting lets you group several report lines into one, if this data relates to the same time

period. If you turn on/off the setting, you will see the pop-up:

Available o To activate the on the right	Are you sure? Current sorting and filters configuration of the main column will be lost.	×	like t	o con	figur	re to l	be	
Catalog Pro Order Item Creditmemo Ite Catalog Catego	Cancel Yes			↑↓	7	Cle	ar al	
Display I	Use Periods Yes 🕜 inear Chart 🕕 No							

Please note, that after confirmation, the **Date** option type becomes the main option. The previously configured sorting and filtering setting of the main option will be reset.

Available options

To activate the widget, drag (or double-click) the column you need to the edit field on the right

Chosen options

Add the columns here that you would like to configure to be displayed on the report page

How	toz
11011	00:

Q

			 		Cle	ea
	Creation Time	¥	↑↓	7	۲	
	Product Name	¥	↑↓	Ŧ	ø	_
	Price	¥	↑↓	¥	ø	
	Stock Status	¥	↑↓	y	۲	
						_



For example: We have several orders that were placed in different days/weeks/months. If we try to form a report based on periods, it will be displayed in the following way:

New Report				💄 demouser 🔻
				← Back Edit
Day Week Mo	nth Year All Store	e Views 💌	▼ Filte	ers Columns •
250 records round	1	20	, bei bage	
Created At 1	Order ID (Inc)	Status	ѕки	Base Grand Total
Jun 24, 2021	000000113,000000114	Pending	MSH06-36-Gray,WS11- L-Yellow,MJ11-XL- Red,WJ07- M-Purple,WB01-XS- Gray,WT09- S-Purple,WP08-28- Black,MP04-33- Green,MT12,WT02,WB05,\ S-Red,WH11,MT10,WH04,\	1472.8000
Jun 23, 2021	00000613,00000614	Pending	MH11- L-Orange,MSH01-32- Blue,WH12- L-Purple,WJ07- S-Orange,MS12- M-Black,24- UG03,WT01,WP01,MH09,V XS-Purple,MSH09-32- Blue,WS09-XL- Blue,WS09-XL- Blue,WH02- M-Blue,MSH07-32- Black,MS08-XL-Black,24- WB05,WS02-XL- Red,MJ06-S-Blue,WH02- M-Green,MS07	1229.5800

This way, we can see the list of orders and products by days/weeks/months/years. We can change the period using the options at the top of the grid.

New Report		Q 💄 admin 🗸
		← Back Edit
Day Week Month Year	All Store Views 💌	Filters Columns -

A few words about the **date display specifics** for different intervals. Displaying the data grouped by periods, the extension shows the date of the beginning for each period.

For example, if you are grouping the data by months, in the Creation Time column you will see the values like:

- Jan 1, 2021
- Feb 1, 2021
- Mar 1, 2021

And if you are grouping the data by years, in the Creation Time column you will see the values like:

- Jan 1, 2020
- Jan 1, 2021
- Jan 1, 2022

Also, you can adjust the time period for your report in the filters toolbar on the report view page.

Da	ay Week	Month	Year	All Store Views	•			
		/					Filters	🔅 Columns 🔻
Create	d At		Base G	rand Total	Order	ID (Inc)	Status	
from	05/05/2021		from					•
to	07/05/2021		to					
SKU								
							Cano	el Apply Filters

If you don't want to use periods you may add options with the *timestamp* type to your report and then set filtering for them separately.

Parent Item ID	• count int
Quote Item ID	• count int
Store ID	• count int
Created At	• max timestamp
Updated At	• max timestamp
Product ID	• count int
Product Type	• group_concat varchar

4. Build reports based on store views

This feature is available for the main entities with the store view scope.

Use Periods	🕖 No ?	
Store View *	All Store Views	^
	Main Website	
	Main Website Store	
	Default Store View	
		~
		//.

Please note, that this option is not available for the **Catalog Product** main entity.

You can also switch between store views on the report view page.

New Report

			← Bacl
All Store Views All Store Views Main Website Main Website Store Default Store View		20 🔻 per page	Filters
Order ID	† Order ID (Inc)	Created At	Status
Order ID 614	T Order ID (Inc) 000000614	Created At Jun 24, 2021 2:10:40 AM	Status Pending
Order ID 614 613	Image: Triangle of the triangle of the triangle of the triangle of	Created At Jun 24, 2021 2:10:40 AM Jun 24, 2021 1:50:48 AM	Status Pending Pending
Order ID 614 613 612	Image: Constraint of the	Created At Jun 24, 2021 2:10:40 AM Jun 24, 2021 1:50:48 AM Jun 22, 2021 2:15:46 PM	Status Pending Pending Pending
Order ID 614 613 612 611	Image: Constant of the second secon	Created At Jun 24, 2021 2:10:40 AM Jun 24, 2021 1:50:48 AM Jun 22, 2021 2:15:46 PM Jun 22, 2021 1:56:33 PM	StatusPendingPendingPendingPendingPendingPending

5. Enable graphs

To visualize reports, you can enable the **Display Linear Chart** option. You will see 2 additional settings: X and Y axes, for which you can add the values from the report data.

Use Periods	Ves 🕐	
Store View *	All Store Views Main Website Main Website Store Default Store View	 ✓
Display Linear Chart	🚺 Yes 🔶	_
X-axis *	Created At	•
Y-axis *	Qty Ordered	•

Then click **Save and View** and see how it looks on the report view page:

New	Report				💄 demouser 🔻
				÷	Back Edit
Day	Week Month Yea	r All Store Views	¥		
110					0
100					-
90					
79					
70					
60			I .		<u> </u>
50					
40	ALL ALL A				
30		A / V	NMLI		\rightarrow
20		V			
10			\mathbb{V}	V	·
0	Apr	May 05	May		lun
000	- Chi	Way 00	May		Jun

More chart types are available within Advanced Reports Premium solution.



Consider to use filters for the accurate data display in charts.

6. Actions with report columns

After adding several options to the report, you can apply various actions to options, like changing the type of aggregation, sorting, filtering, hiding, etc.

DATA AGGREGATION

Our Custom Reports Builder extension automatically aggregates data for more convenient and compact presentation in reports.

Please note, that you can choose the type of aggregation only for related entities. The columns of the main entity always use the default aggregation, and the columns of the remaining entities can be aggregated in relation to the main entity as it is required for a specific business case.

For example: if we build a report from Customer, and add the Grand Total column of the Order entity, the report can be displayed as the sum of the grand totals of customers orders, or as the average value of all customers orders, and so on - depending on the type of aggregation you choose.

Chosen options

Add the columns here that you would like to configure to be displayed on the report page

How to?



Chosen options

Add the columns here that you would like to configure to be displayed on the report page

How to?

Entity ID	Y		↑↓	Ŧ	©	ear a
First Name	¥	1000 111	↑↓	Ŧ	۲	÷
Last Name	¥		↑↓	Ŧ	٢	Î
Grand Total	¥		↑↓	Ŧ	٢	Ť
Select Option						
Default						
Max Value						
Min Value						
Average						
Sum					2	
Count						
		. 1		alu f	-	

In this example, we applied the **sum** aggregation to the **Grand Total** column. Let's see how it looks on the report view page:

25/05/07 14:37	29/48	Guide for C	ustom Reports Builder for Magent
New Report			💄 demouser 🔻
			← Back Edit
All Store Views 🔻			▼ Filters Columns ▼
271 records found		20 • per page	Entity: order
Entity ID	† First Name	Last Name	Grand Total
1004	Padgett	Sherry	579.2000
1003	Beck	Dohrmann	494.2000
999	Theadora	Napleton	693.6000
992	Worth	Brosetti	642.4000

Or, as another example, let's add the **Product Name** column from the **Catalog Product** entity to our report and see how the **group_concat** aggregation works:

You can check the aggregation type for each column on the mouse hover. Here we can see, that the

Kleimt

Dibble

McCard

McClancy

991

984

979

978

684.0000

352.8000

991.5800

546.3800

29/48

Dulcea

Verile

Fifi

Wendeline

report displays the sum of the grand totals of customers' orders.

Chosen options

Add the columns here that you would like to configure to be displayed on the report page

How to?

Entity ID	Y		↑↓	Ŧ	٢	-
First Manag	W	planty	A.I.	_	-	-
First Name	Ä	1	TΨ	· ·	٢	_
Last Name	¥	Ē	↑↓	7	٢	Î
Grand Total	¥	(iii	↑↓	Ŧ	۲	Î
Product Name	¥	Ē	↑↓	Y	۲	1
Group Concat					,	,
	6	. 1		_ _ P	°14	
	Cance		Ар	ріу н	liters	

Let's see how it looks on the report view page:

2025/05/07 14:37	31/48		Guide for Cus	stom Reports Builder for Magento 2
New Report				💄 demouser 🔻
				← Back Edit
All Store Views	•		٦	Filters Columns
271 records found		-	20 🔻 per page	< 1 of 14 >
Entity ID †	First Name	Last Name	Entity: catalog_product	Product Name
1004	Padgett	Sherry	579.2000	Antonia Racer Tank- L-Purple,Torque Power Short-34-Purple,Juliana Short-Sleeve Tee,Diana Tights,Orestes Yoga Pant ,Electra Bra Top,Grayson Crewneck Sweatshirt
1003	Beck	Dohrmann	494.2000	Josie Yoga Jacket- S-Blue,Autumn Pullie-XL- Green,Taurus Elements Shell-XL-Blue,Minerva LumaTech™ V-Tee- XL-Black,Hera Pullover Hoodie-XS-Blue,Cobalt CoolTech™ Fitness Short-36-Black,Juliana Short-Sleeve Tee

Here, in the **Product Name** column we can see the list of products ordered by each customer.

For now, you can use the following **types of aggregation**:

- default uses default option aggregation
- count displays the number of values of several rows
- group_concat concatenates several values and lists them using a comma
- **sum** sums up numeric values
- max returns the maximum value among the numeric values
- **min** returns the minimum value among the numeric values
- **avg** returns the average value among the numeric values

Available types of aggregation per options (columns) types:

- int: default, sum, count, group_concat, min, max, avg
- varhar: default, sum, count, group_concat, min, max, avg
- decimal: default, sum, count, min, max, avg
- timestamp: default, min, max, avg

FILTERING BY PERIODS

						Cle	ear a
***	Entity ID	¥		¢↓	7	٢	Ť
	Created At	¥		↑↓	Ţ	٢	Î
	First Name	Ч		∕↓	7	۲	Û
	Last Name	¥		↑↓	•	۲	Î
***	Grand Total	¥		↑↓	Y	٢	Î
	Order ID (Inc)	¥	1000 1000	↑↓	Ŧ	۲	Ť

This feature is available for the options with the Date (timestamp) type.

After enabling, filtering by dates becomes available for the chosen column with the from/to fields, which are displayed above the report grid on the report view page.

New Report			👤 demouser 👻
			← Back Edit
From 2020-07-21 🔄	To 2021-07-29 🖻		All Store Views
256 records found		20 💌 per page	Columns
Created At	First Name	Grand Total	Order ID (Inc)
Sep 23, 2020 4:15:07 PM	Padgett	579.2000	00000237
Mar 29, 2021 12:13:47 PM	Theadora	693.6000	000000493
May 15, 2021 12:07:50 PM	Worth	642.4000	00000102
Aug 10, 2020 9:01:02 AM	Dulcea	684.0000	000000177
Aug 30, 2020 8:27:29 AM	Wendeline	352.8000	00000205
Feb 16, 2021 9:49:46 PM	Verile	833.5800	000000244,000000438
Mar 27, 2021 8:56:03 AM	Fifi	546.3800	000000490
Feb 1, 2021 2:51:10 AM	Solomon	706.3900	000000194,000000416
Oct 21, 2020 1:01:25 AM	Ted	772.8000	00000275
Sep 28, 2020 8:02:55 PM	Zane	204.0000	00000245
Nov 6, 2020 7:12:25 AM	Vernice	907.0000	00000298
Mar 31, 2021 9:10:35 PM	Keary	720.0000	000000059,000000497
Dec 31, 2020 1:50:51 AM	Feliza	180.0000	00000066

SORTING

Sorting can be enabled for a single option only. The data can be sorted in ascending and descending order. By default, it is enabled for the main column, but you can activate it for any other column.

Chosen options

Add the columns here that you would like to configure to be displayed on the report page

How to?

 Product ID	¥	Ē	↑↓	7	٢	Ť
 Product Name	¥		↑↓	Ŧ	٢	Î
 Creation Time	¥		↑↓	•	٢	Î
 SKU	¥		↑↓	•	۲	Î
Price	¥		↑↓	Ŧ	۲	Î

See how it looks on the report view page:

2025/05/07 14:37	35/48		Guide for Custom R	eports Builder for Magento 2
New Report				💄 demouser 🗸
				← Back Edit
			Y Fi	ilters 🔅 Columns 🗸
2046 records found		20	▼ per page <	1 of 103 >
Product ID	Product Name 🛛 🗍	Creation Time	ѕки	Price
196	Abominable Hoodie	Feb 9, 2021 10:41:35 PM	MH09	\$69.00
190	Abominable Hoodie-L-Blue	Feb 9, 2021 10:41:35 PM	MH09-L-Blue	\$69.00
191	Abominable Hoodie-L- Green	Feb 9, 2021 10:41:35 PM	MH09-L-Green	\$69.00
192	Abominable Hoodie-L-Red	Feb 9, 2021 10:41:35 PM	MH09-L-Red	\$69.00
187	Abominable Hoodie-M- Blue	Feb 9, 2021 10:41:35 PM	MH09-M-Blue	\$69.00
188	Abominable Hoodie-M- Green	Feb 9, 2021 10:41:35 PM	MH09-M-Green	\$69.00

FILTERING OPTIONS

According to the types of chosen options, different filtering features become available for your report.

Catalog Product 🔸	View All (+67)	Clea
Product ID	• count int	📙 Product ID 🛛 🐮 🖻 🔨 🔻 👁 🔅
Creation Time	• max timestamp	🗄 Product Name 🛛 🖀 ঝ 🔽 👁
Product Name	• group_concat varchar	
Price	• sum decimal	Cancel Apply Filters
SKU	• group_concat varchar	
Stock Status	• max int	🗒 Creation Time 🛛 🖉 🖻 🛝 🔽 👁
Attribute Set ID	• group_concat int	From
Type ID	• max varchar	То
Has Options	• max int	Cancel Apply Filters
Required Options	• max int	
Update Time	• max timestamp	🗄 Activity 🐮 🖻 ঝ 🔽 👁
Activity	• max varchar	Select Option 🔹
Category Gear	• max varchar	Cancel Apply Filters
Climate	• max varchar	
Collar	• max varchar	

Enable the filtering for particular options by hitting the filter icon next to the option name. Then, specify the filtering parameters for these options and click the **Apply Filters** button. If you want to remove a filter from an option, just click the **Cancel**.

				Clear al
ict ID	Y	. ↑↓	.	0
ict Name	¥	≜ 1 ↓	y <	© 🕯
ion Time	¥	≣ ↑↓	Y	0
07/09/2020				
07/28/2021				
	Cancel	Ар	ply Filt	ers
ty	¥	■ 1	T	<u>ک</u>
or				•
	ty	ict ID III III IIII IIII IIIIIIIIIIIIIIII	ict ID	ict ID Image: Constraint of the state

All applied filters will be displayed on the report view page.

New Report		💄 demouser 👻
		← Back Edit
		🝸 Filters 🏠 Columns 🗸
Active filters: Creation Time: 07/09/2020 - 07/	/28/2021 💿 Activity: Outdoor 🛞	Clear all
6 records found	20 - pe	r page 〈 1 of 1 〉
Product Name ↓	Creation Time	Activity
Aim Analog Watch	Feb 9, 2021 10:41:00 PM	Outdoor, Recreation, Gym, Sports
Beginner's Yoga	Feb 9, 2021 10:41:22 PM	Outdoor, Yoga, Gym, Athletic, Sports
Clamber Watch	Feb 9, 2021 10:41:01 PM	Outdoor, Recreation, Gym, Athletic
Dash Digital Watch	Feb 9, 2021 10:41:01 PM	Outdoor, Gym, Athletic, Sports
LifeLong Fitness IV	Feb 9, 2021 10:41:23 PM	Outdoor, Gym, Athletic, Sports
Summit Watch	Feb 9, 2021 10:41:00 PM	Outdoor, Recreation, Gym, Athletic, Sports

By the way, you can delete applied filters or add new ones on the report view page, but if you reopen the same report, it will be displayed again the way it was saved on the edit report page.

Active filters: Creat	on Time: 07/09/2020 - 07/28/2021	Activity	: Outdoor 🙁
6 records found			20 • per
Product ID	Product Name	ţ	Creation Time

HIDING THE DATA

Please mind, that at least 2 options must be displayed in the report. That's why the hiding icon becomes visible only when the third option is added.

Product ID	Y		↑↓	7	٢	Ť.
 Product Name	¥	Ē	↑↓	Ŧ	٢	Î
 Creation Time	¥	100	$\uparrow\downarrow$	Y	Ś	÷.
 Activity	Y		↑↓	T	۲	Ì

With this functionality, you can add various options to establish a connection between entities while not displaying these options in the report. To hide an option, just click an eye icon next to the option name. The option will not be displayed on the report view page, while the connection between entities will remain.

REMOVING OPTIONS

You can easily delete any option using the appropriate icon. Moreover, you can click **Clear All** to remove all the options except the main one.

Chosen options

Add the columns here that you would like to configure to be displayed on the report page

How to?



Out-of-stock forecasting (available in Advanced Reports Premium)

Within the **Advanced Reports Premium** solution, you can enable out-of-stock estimates for the products in your store. This way, you can improve inventory management and replenish demanded items in a timely manner.

To set the estimation period, please go to **Stores** \rightarrow **Configuration** \rightarrow **Amasty Extansions** \rightarrow **Custom Reports Builder** \rightarrow **General Settings**.

General

Fuel valued Fuetities						
[global]	Invoice (Main Entity)	*				
	Invoice Item					
	Order Entity (Main Entity)					
	Order Address					
	Order Item (Main Entity)					
	Order Payment					
	Shipment (Main Entity)					
	Shipment Item					
	Product Stock					
	Sales Estimation	1				
	Selected entities will be unavailable in Report Builder. Disabling unused entities will speed up report edit page load.					
stimation Period (days) [global]	30					
	Setting value will be used in the calculation for Average Sales and Stock Threshold columns. Please bear in mind that the Stock Threshold column value can be empty if there are no sales for the product.					

Estimation Period (days) - here you can specify te estimation period in days. This period further will be used in the calculations in your reports.

For the **correct calculation and display** of out-of stock-estimate in your reports, perform the following command in the Magento concole: *bin/magento ambuilder:stock:update*

To start analyzing the out-of-stock forecasting data for the products, just add the **Average Sales** (**qty**) and **Stock Threshold (days)** columns in your reports. Both columns can be found within the Catalog Product main entity.

Average Sales (qty) = quantity of sales for the Estimation Period / days in the Estimation Period (Qty Sold/Period)

Stock Threshold (days) = Qty in Stock x Period / Qty Sold

Product Average Sales and Stock Threshold Report								
				← Back to Grid Edit report				
All Store Views								
Tilters Columns - 🗈 Ex							🛓 Export 🔻	
1745 records found 20 💌 per page < 1 of 88							of 88 💙	
Product Name	SKU	Product Price	ltems Ordered Qty	Total	Current Stock Qty	Average Sales (qty)	Stock Threshold (days)	
Joust Duffle Bag	24-MB01	\$34.00	7.0000	227.8000	96.0000	8.0000	3	
Strive Shoulder Pack	24-MB04	\$32.00	6.0000	168.0000	99.0000	11.0000	6	
Crown Summit Backpack	24-MB03	\$38.00	8.0000	292.6000	96.0000	7.0000	4	
Wayfarer Messenger Bag	24-MB05	\$45.00	11.0000	474.7500	95.0000	6.0000	4	

Integrations

With the Amasty Custom Reports Builder, you can also analyze the data from other Amasty modules installed on your Magento store. We are constantly working on adding new integrations to the module to provide you with the ability to add more entities in your reports. For now, the list of available integrations is as follows:

- **Pre Order for Magento 2:** add Amasty Pre Order extension to use the pre-orders and backorders data in your reports to better understand customer demands and needs. Timely discover which products are most popular and take this information into account when forming your store assortment. To use the data from the module, please run the following command in composer: *composer require amasty/module-preorder-to-builder*
- **B2B Company Account:** build extended reports based on company accounts data. Analyze the activities per each company (such as volume of sales, average check, preferred products, etc.) and form an efficient sales strategy using this information. To use the data from the

module, please run the following command in composer: *composer require amasty/module-company-account-to-builder*

- **Custom Form for Magento 2:** explore the data gathered from the forms filled out by customers on your website. Find out which forms are more popular and bring more sales. See the number of submitted forms per each customer, etc. To use the data from the module, please run the following command in composer: *composer require amasty/module-custom-form-to-builder*
- **Blog Pro for Magento 2:** create comprehensive reports based on various blog data. Discover which categories or blog posts are most interesting to readers and find out which articles bring more conversions. To use the data from the module, please run the following command in composer: *composer require amasty/module-blog-pro-to-builder*
- Social Login for Magento 2: add Amasty Social Login extension to gather more detailed information about your customers and to explore what social networks really bring you the profit. To use the data from the module, please run the following command in composer: *composer require amasty/module-social-to-builder*
- Order Attributes for Magento 2: generate detailed reports based on custom order attributes to gain valuable insights from additional order data. Use this information to optimize marketing, sales, and customer experience strategies. To enable the integration, please run the following command in composer: *composer require amasty/module-orderattr-builder*
- Affiliate for Magento 2: analyze a wide range of affiliate data, and get comprehensive insights into your affiliate marketing performance. With this integration, you can easily track and evaluate which affiliates are driving the most traffic and which affiliate programs are delivering the best results. To enable the integration, please run the following command in composer: composer require amasty/module-affiliate-to-builder-by-amasty

Check the **demo** to view the additional reports that become available with the integrations.

Adding a new entity (information for developers)

Please consider, that adding entitities from third-party extensions requires developer skills.

The Custom Reports Builder is **capable of analyzing the data from third-party extensions**. To use this functionality, you should add a new entity to the module. Let's walk through the process of adding a new entity.

Introduction

The use of entities in report generating is determined by special configuration files of entities. These files contain all information about entities. This way, the module perceives an **entity** as a container storing a set of data of the entity itself, its data, and its relationships with other entities.



A **column** is a data storage for an entity of a certain type. Later, this data can be visualized as a grid column on the view report page.

Relation - defines the linking rules for various entities with each other.

To add an entity, you need to create a configuration file in the module, the entity of which you want to add to the report.

You need to create an XML file in the following

directory:<**module_root**>/**etc/ambuilder_entity_scheme**. The file name should match the name of the entity (e.g. catalog_product.xml).

The file should describe the entity (name, title, main table), the columns of the entity (name, title, data type, etc.), and its relations.

Please, keep in mind, that it is not necessary to describe all the columns in the XML file. It will be enough to describe only the control ones. Other entity columns will be formed by the Db and Eav adapters.

Configuration file description

ENTITY DESCRIPTION

The file is represented by the **amasty_report_builder_entities** section, which contains the configuration of one or more entities.

Entity section has a required string parameter "name". This parameter defines the unique entity key by which the entity data object will be created. The section can also contain two optional boolean parameters "primary" and "eav".

The "primary" parameter can be true or false. All entities described in XML are divided into two types:

- Primary
- Secondary

Primary entities can be used as the main report entity. Secondary ones serve for additional filling the report with data. If the primary parameter is not specified explicitly, the entity is considered secondary.

This division is intended to simplify the formation of a request for report data. If it is not needed to define an entity as primary for the report, it is better to define it as secondary.

The "eav" parameter can be true or false. This parameter is used to specify eav entities. For eav entities, the configuration object is additionally filled with data from eav tables.

The "entity" section should contain the following subsections: title, main_table (name of the main table without a prefix), columns, relations. For expandability purposes, finding these sections is not validated in the XML. However, the entity should have a title, its own table, and at least one column.

The "columns" section contains the description of the columns (entity data). The section should include at least one "column" subsection.

Section "relations" contains a description of the relations between entities. The links between entities can be of two types: simple (link through a column) and complex (link through a junction table). The section should have at least one "relation" subsection.

COLUMNS DESCRIPTION

Section "column" contains the required string parameter "name", which is a unique column key in the entity configuration. Also, the section can have four optional parameters: primary, useForPeriod, frontendModel, eavAttribute.

The primary parameter for the column can be true or false. Defines the main column of the entity. The main column of an entity is always presented in the report. The entity must have the main column. If several columns are specified as main - the first one will be selected as the main one.

UseForPeriod parameter can be true or false. This parameter determines whether the column can be used to generate an entity report using grouping by date periods. This parameter should be specified only for columns of types: date, datetime, and timestamp

The frontendModel parameter accepts a string. This parameter determines the type of HTML element when adding a filter to a column. Possible options: text, select, multiselect, textRange, dateRange

The eavAttribute parameter can be true or false. This parameter indicates that the column is an attribute of the eav entity.

This section can have the following subsections: title, type, aggregation_type, source_model, hidden, options.

- title defines the title of the column, which is displayed on the pages of editing and displaying the report
- type defines the data type of the column. Available types: int, decimal, text, date
- aggregation_type defines the type of aggregation of the column when grouping. If not

specified, the type is determined automatically based on the data type of the column.

- source_model can be set for a column with a frontendModel of select and multiselect types.
- options can be set for columns with a frontendModel of select and multiselect types. For eav attributes they are filled automatically.

RELATIONS DESCRIPTION

"Relation" section should have two required attributes: name and type. The "name" parameter is a unique link key in the entity object. It is also a pointer to the name of the entity with which this entity is connected.

Parameter "type" defines the type of connection (column or table).

A "relation" section of the "column" type must include the following subsections:

- column the column of the entity to be linked
- reference_column the column of the current entity
- relationship_type type of relations connection (one to one, one to many, many to one)

A "relation" section of the "table" type should include the following subsections:

- column the column of the entity to be linked
- reference_column the column of this entity
- relation_table the name of the junction table
- relation_column the name of the junction table column pointing to the name of the linked entity column
- relation_reference_column the name of the junction table column pointing to the column name of this entity
- relationship_type type of relations connection

EXTENSION

After determining the relationships of the new entity with other entities, it is also needed to determine the inverse relationship of these entities with the newly added one. Thus, it is required to add one more (or several) extension files of the existing entities and define the relations between them and the newly added entity. These files should contain the entity and relations sections and describe the connection with the newly added entity. See the example of such a file below.

Templates

Please mind, that the files in this section are just templates. Instead of (?) mark there should be the data from your entities. The parameters can be removed or added depending on your reporting requirements.

ENTITY FILE

```
2025/05/07 14:37
```

```
<?xml version="1.0"?>
<config xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</pre>
xsi:noNamespaceSchemaLocation="urn:amasty:module:Amasty ReportBuilder:etc/en
tity scheme.xsd">
<amasty report builder entities>
 <entity name="(?)" primary="(?)" eav ="(?)">
    <title>(?)</title>
    <main table>(?)</main table>
    <columns>
      <column name="(?)" primary="(?)" />
      <column name="(?)" useForPeriod="(?)"/>
      <column name="(?)" frontendModel="(?)"/>
      <column name="(?)" eavAttribute="(?)"/>
      <column name="(?)">
          <hidden>(?)</hidden>
          <title>(?)</title>
          <type>(?)</type>
          <aggregation_type>(?)</aggregation_type>
          <source model>(?)</source model>
          <options>(?)</options>
       </column>
      </columns>
    <relations>
      <relation name="(?)" type="(?)">
          <column>(?)</column>
          <reference column>(?)</reference column>
          <relationship_type>(?)</relationship_type>
          <relation column>(?)</relation column>
          <relation table>(?)</relation table>
          <relation reference column>(?)</relation reference column>
      </relation>
   </relations>
 </entity>
</amasty_report_builder_entities>
</config>
```

EXTENSION FILE

```
<?xml version="1.0"?>
<config xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="urn:amasty:module:Amasty_ReportBuilder:etc/en
tity_scheme.xsd">
        <amasty_report_builder_entities>
```

Find out how to install the **Custom Reports Builder** extension for Magento 2 via Composer.

From: https://amasty.com/docs/ - Amasty Extensions FAQ	
Permanent link: https://amasty.com/docs/doku.php?id=magento_2:custom_reports	×
Last update: 2025/05/07 08:28	