



# Sharing and Managing Reports

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1. Sharing Reports

2. Managing Reports

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2. Managing Reports

# New Content with Viya 3.4

The presence of an orange triangle in the lower left corner of a slide means:













- This slide has new content that is specific to Viya 3.4
- This content was either not available or not supported with previous releases

This Orange Triangle

## VA 8.3 Features – Sharing and Managing Reports

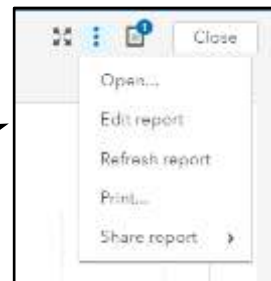
- Generate guest mode link for reports
- Group support for Alerts
- Option to turn off PDF attachment in report distribution email

# How Can Reports be Shared?

Task	VA Edit Mode	VA Report Viewer
Print to PDF		
E-mail Report		
Export Data to .xlsx, .tsv, .csv		
Save image		
Generate Link		
Distribute reports		
Generate alerts		

# Printing Reports

In the Viewer, select **Print** from the report Overflow menu to print the report or **Print Object** from the object Overflow menu.



In Edit Mode, select **Print** from the report Overflow menu.

A PDF file is created, which can be viewed, shared, or printed.

**Print to PDF**

Document Setup    Select Objects

Page Setup

Paper size: Letter

Orientation: ☐ Portrait ☒ Landscape

Margins: Units: Inches

Top: 0.25 Right: 0.25

Left: 0.25 Bottom: 0.25

Options

Show page numbers: ☒

Show empty rows and columns in table: ☐

Include printed Table of Contents: ☐

Include appendix information: ☒

Include comments: ☐

Include supplemental tables: ☐

Expand clipped and non-visible content: ☐

Include cover page: ☒

Cover page text:

Print Cancel

**Print to PDF**

Document Setup    Select Objects

Choose visual elements: ☐ Print all items ☒ Print selected items

Objects:

☐ Select

☒ Page 1

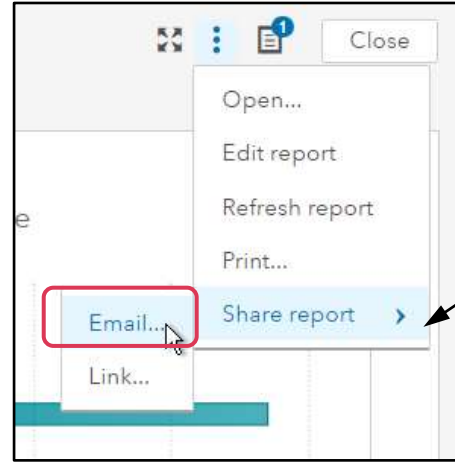
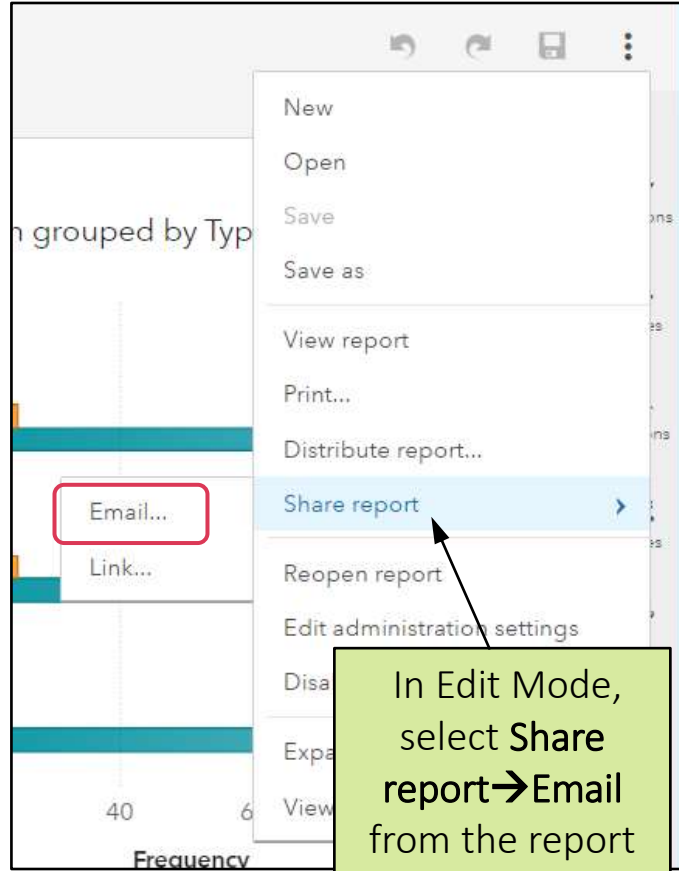
☐ List Table 1

☐ Bar Chart 1

Print Cancel

When printing an object, the **Select Objects** check boxes do not display.

# Emailing Reports



In the Viewer,  
select **Share  
report**→**Email**  
from the report  
Overflow menu.

Send	To...	
	Cc...	
Subject For review: Sample Report		
Report name: Sample Report		
Modified by: null		
Access this report via this url: <a href="http://sasserver.demo.sas.com/links/resources/report?uri=/reports/reports/3a96f1a4-fd30-4949-b60b-3d1201c0c8b3&amp;page=vi6">http://sasserver.demo.sas.com/links/resources/report?uri=/reports/reports/3a96f1a4-fd30-4949-b60b-3d1201c0c8b3&amp;page=vi6</a>		



# Printing or Emailing from your Report List

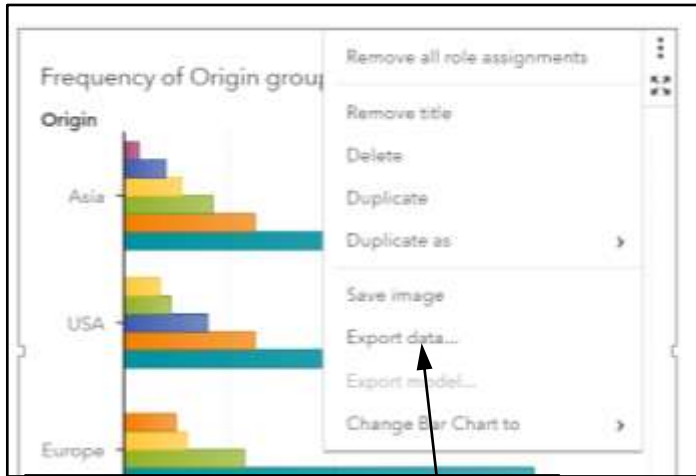
You can also print and email reports from your list of viewed reports in the Viewer in both table view and tile view.

The screenshot displays the SAS Report Viewer interface. At the top, the title bar reads "SAS® Report Viewer - View Reports" with a search bar and user name "Bobbie Wagoner". Below the title bar, there are buttons for "Browse Reports" and "New Report" (highlighted with a red box). A "Filter" input field and view toggles (table and tile) are also present. The main area shows a table of reports with columns "Name", "Author", and "Last Modified". The "CarsReport" is selected, and a context menu is open over it, showing options: "Open", "Edit", "Properties", "Email..." (highlighted with a red box), and "Print". An inset window shows the "CarsReport" details, including a bar chart and a table of data. The details window also has a context menu with the same options, where "Email..." is highlighted. The details window also shows "Modified by: Bobbie Wagoner" and "Last modified: 02/03/18 11:29 AM".

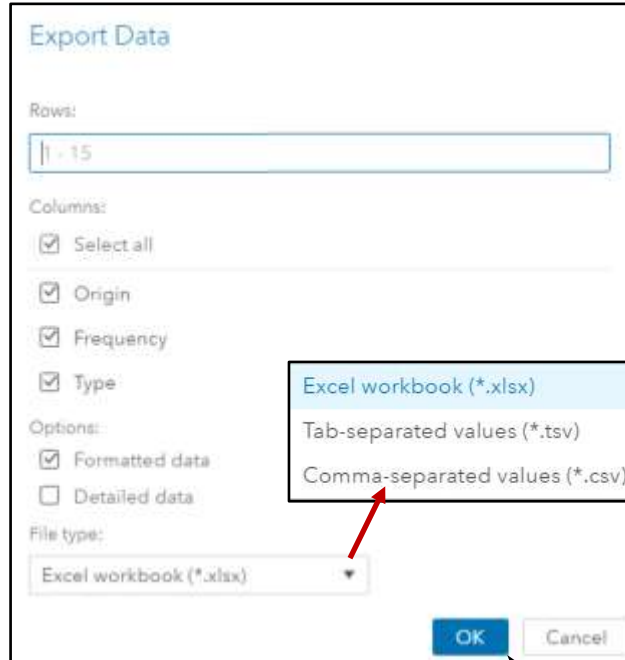
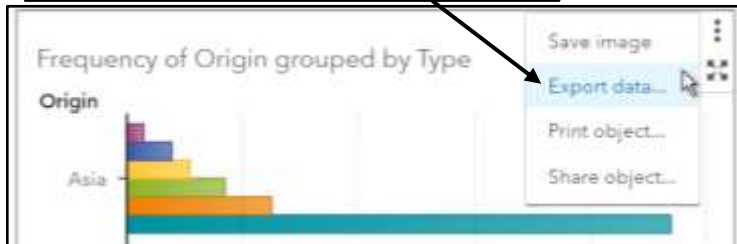
Name	Author	Last Modified
<input checked="" type="checkbox"/> CarsReport	Gate Demo033	02/03/18
<input type="checkbox"/> GeoMapNY	Gate Demo070	02/02/18
<input type="checkbox"/> Report 1	Bobbie Wagoner	01/28/18
<input type="checkbox"/> Multiple Sections	Teri Patsilaras	01/23/18

Modified by: Bobbie Wagoner  
Last modified: 02/03/18 11:29 AM

# Exporting Data from Report Objects to .xlsx, .tsv, .csv



From the object overflow menu in Edit mode or in the Viewer, select **Export Data**

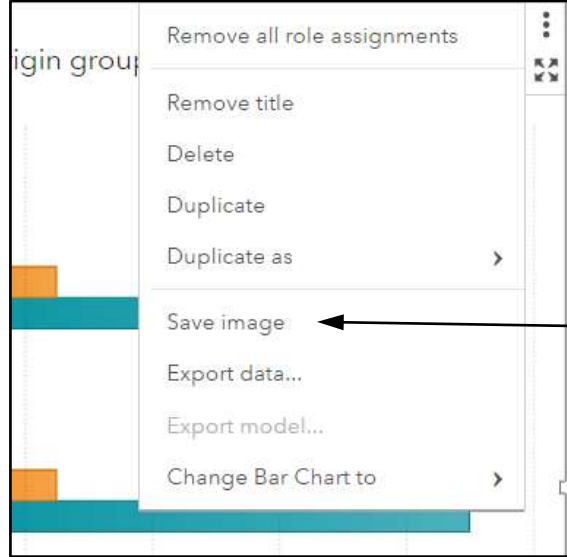


Excel workbook (\*.xlsx)  
Tab-separated values (\*.tsv)  
Comma-separated values (\*.csv)

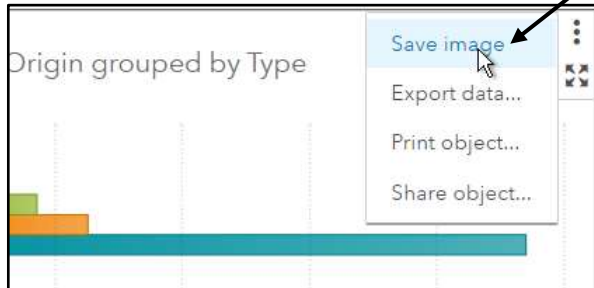
When you click OK, the spreadsheet is created in  
\\Users\\user\\Downloads.

	A	B	C	D
1	Origin	Frequency	Type	
2	Asia	94	Sedan	
3	USA	90	Sedan	
4	Europe	78	Sedan	
5	Asia	25	SUV	
6	USA	25	SUV	
7	Europe	23	Sports	
8	Asia	17	Sports	
9	USA	16	Truck	
10	Europe	12	Wagon	
11	Asia	11	Wagon	
12	Europe	10	SUV	
13	USA	9	Sports	
14	Asia	8	Truck	
15	USA	7	Wagon	
16	Asia	3	Hybrid	

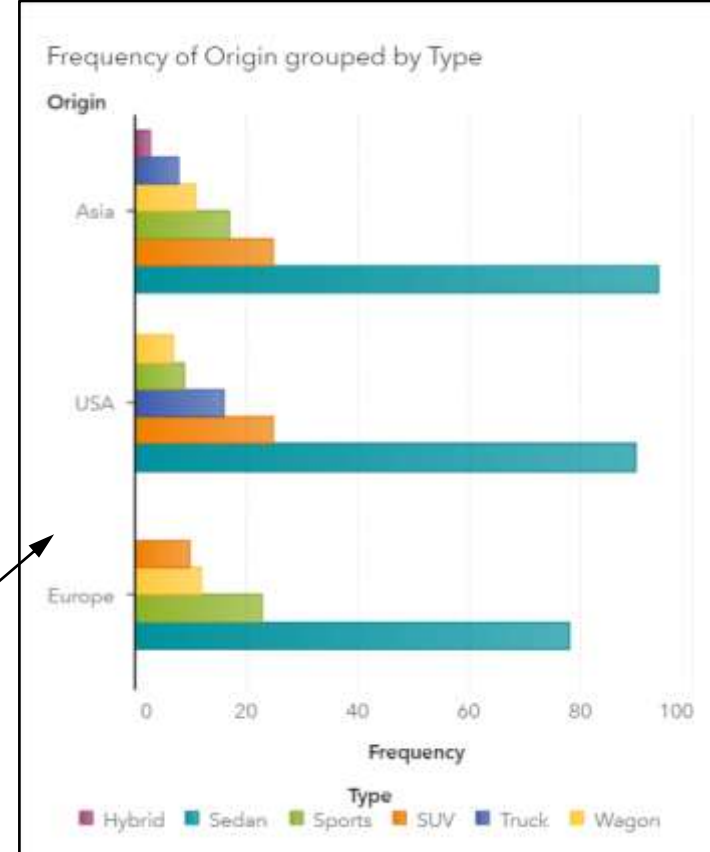
# Saving an Image of an Object



In Edit mode or in the Viewer, from the Object Overflow menu, select **Save image**.



The image is saved as a .png file.



In Edit mode or in the Viewer, from the Object Overflow menu, select **Share Report** → **Link**

# Generating a Report Link

**Report Image** creates a link to an SVG image of the report.

## Generate Link

Interactive Report

Report Image

☐ Embeddable link

Link Options

[Reset](#)

Alerts pane:



Application banner: ⓘ



Comments pane:



Menu bar: ⓘ



Information pane: ⓘ



Printing:



Sharing:



Link:

```
http://sasviya01.race.sas.com/SASReportViewer/?
reportUri=%2Freports%2Freports%2Fe8bd5d70-f23a-412c-a007-
81a632d08702&page=vi6
```

Copy Link

Cancel

You can control Link Options.

## Generate Link

Interactive Report

Report Image

The link below will share an SVG file of the current view.

Link:

```
http://sasviya01.race.sas.com/reportImages/directImage?
reportUri=%2Freports%2Freports%2Fe8bd5d70-f23a-412c-a007-
81a632d08702&size=1200x1000&layoutType=entireSection&sectionIndex=0
```

Embeddable link can be embedded in a iFrame.

Link:

```
<iframe src="http://sasviya01.race.sas.com/SASReportViewer/?
reportUri=%2Freports%2Freports%2Fe8bd5d70-f23a-412c-a007-
81a632d08702&page=vi6&reportViewOnly=true&appSwitcherDisabled=true">
</iframe>
```

Copy Link

Cancel

# Generating a Report Object Link

In the Viewer, on the Object Overflow menu, select **Share object**.



You can generate both the embeddable link and the image link, but the Link options are limited to printing and sharing.

Generate Link

Interactive Report   Report Image

☐ Embeddable link

Link Options

Printing: ☒

Sharing: ☒

Reset

Link:

<http://sasviya01.race.sas.com/SASReportViewer/?reportUri=%2Freports%2Freports%2Fe8bd5d70-f23a-412c-a007-81a632d08702&page=vi6&objectName=ve64>

Copy Link   Cancel

# Who can Distribute Reports?

## Rules

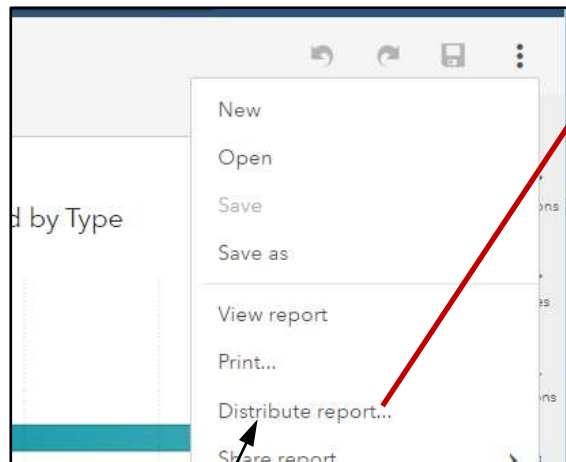
ApplicationAdministrators

Object URI	Principal	Setting	Permissions	Description
/collections/sharedCollections/**	ApplicationAdministra...	Grant	Create, Delete, Read, Update	Administrators can manage shared collections.
/home/sharedLinks/**	ApplicationAdministra...	Grant	Create, Delete, Read, Update	
/themeContent/**			Create, Delete, Update	ent.
/themes/themes/@defaultApplicationTheme/*			Create	
/themes/themes			Create	
/themes/themes/*	ApplicationAdministra...	Grant	Delete, Update	Administrators can update and delete themes.
/themes/publishedThemes/*	ApplicationAdministra...	Grant	Create, Delete	Administrators can publish and unpublish themes.
/themes/themes/@defaultReportTheme/*	ApplicationAdministra...	Grant	Create	Administrators can set the default report theme.
/SASThemeDesigner/**	ApplicationAdministra...	Grant	Read	Allow access to an application.
/reportDistribution/distributions/**	ApplicationAdministra...	Grant	Create, Delete, Read, Update	Administrators can execute a report distribution.
/reportDistribution/distributionRequests/**	ApplicationAdministra...	Grant	Create, Delete, Read, Update	Administrators can create and edit requests to schedule reports.
/reportDistribution/scheduler/**	ApplicationAdministra...	Grant	Create, Delete, Read, Update	Administrators can create and edit schedules on report distributi...
/reportImages/images/**	ApplicationAdministra...	Grant	Delete, Read	Admin access, allows clearing the cache
/SASVisualAnalytics/rest/customGraphTypes/**	ApplicationAdministra...	Grant	Create, Delete, Update	Allow custom graph types access.

Access to report distribution is controlled by these rules.

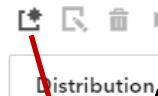
Initially, only Application Administrators can distribute reports.

# Distributing Reports



In Edit mode, from the report Overflow menu, select Distribute report

## Distribute Report



Any currently defined distributions are listed.

## New Report Distribution

Distribution name: \*

CarsReport

Recipients:

Beth Ebersole

Bobbie Wagoner

Email subject:

The new Cars Report is here

Email message:

Take a look at this please and give me a call.

Schedule:

4

Create new schedule

## Choose Members

Selected members:



Allen Cunningham (sashac)

Application Administrators (ApplicationAdministrators)

Beth Ebersole (beeber)

Bobbie Wagoner (sasbdw)

OK

Cancel


Close

# Completing the Schedule for Distribution


- You can select any Frequency, Time, Time zone, Start date, and End.
- The interface adjusts to the Frequency type that you select.

**New Trigger**

Frequency:  Interval:  ^ days

Time: \*  

Time zone: ⓘ

Start date:  

End:

**Frequency Dropdown Menu:**

- Minutes
- Hourly
- Daily**
- Weekly
- Monthly
- Yearly
- Date List



# Generating Email Alerts on Interval Display Rules



Create a new display rule on the Rules panel for an object or

**New Display Rule**

Profit in USD

Rule Type:  
Expression

Operator:  
>

Value:  
8000000

Format:  
AvenirNext

Background Color:  
[Red Color Picker]

Placement:  
Row

☐ Allow alerts for this rule

OK Cancel

☒ Allow alerts for this rule

Recipients:  
[Empty Field]

Notification frequency:  
Daily

Interval (days):  
1

Query frequency:  
System default

Interval:  
1

OK Cancel

- Daily
- Hourly
- Every minute

- System default
- Daily
- Hourly
- Every minute

# Defining URL Mappings for Data-Driven Content

The screenshot displays the 'Administration Settings' dialog box in SAS. On the left, an overflow menu is open, showing options like 'New', 'Open', 'Save', 'View report', 'Print...', 'Distribute report...', 'Share report', 'Reopen report', 'Edit administration settings', and 'Disable auto-refresh'. A red arrow points from the 'Edit administration settings' option to the 'Administration Settings' title in the main dialog. The main dialog has a title bar 'Administration Settings' and a section 'Data-Driven Content URL Mappings:'. Below this section, there is a table with two columns: 'Display Label' and 'URL'. A '+ New' button is located below the table. At the bottom right, there are 'OK' and 'Cancel' buttons. A green callout box with a black border contains the text: 'In Edit mode, select Edit Administration settings from the Overflow menu.'

Administration Settings

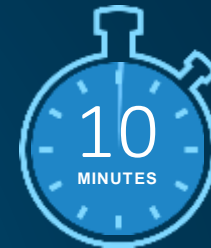
Data-Driven Content URL Mappings:

Display Label	URL
---------------	-----

+ New

OK Cancel

In Edit mode, select Edit Administration settings from the Overflow menu.



# Hands-On Exercise

Complete the steps in:

Desktop\Hands-on\VIYAVISUAL\GELVIYAVISUAL\_06Sharing\_01ShareManage

Tasks:

- Produce a report pdf
- Save a report image
- Add comments to a report
- Export report data
- Generate a report link

7. The saved image:



9. The exported spreadsheet:

	A	B	C
1	Product Line	Unit Yield (actual)	Unit Yield (target)
2	Game	3667996	3843384
3	Promotional	2192764	2741700
4	Action Figure	1854353	2177550
5	Stuffed Animal	1531	1786
6			
7			

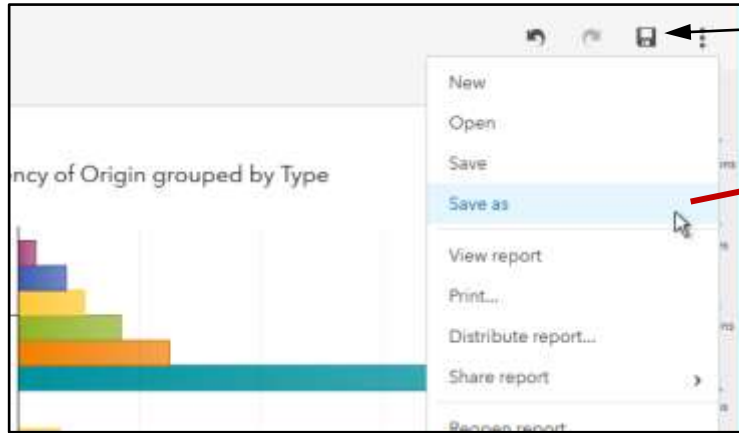
11. You are unable to distribute the report because you do not have appropriate access to that functionality. You would need to be a member of the Application Administrators group.

# Sharing and Managing Reports

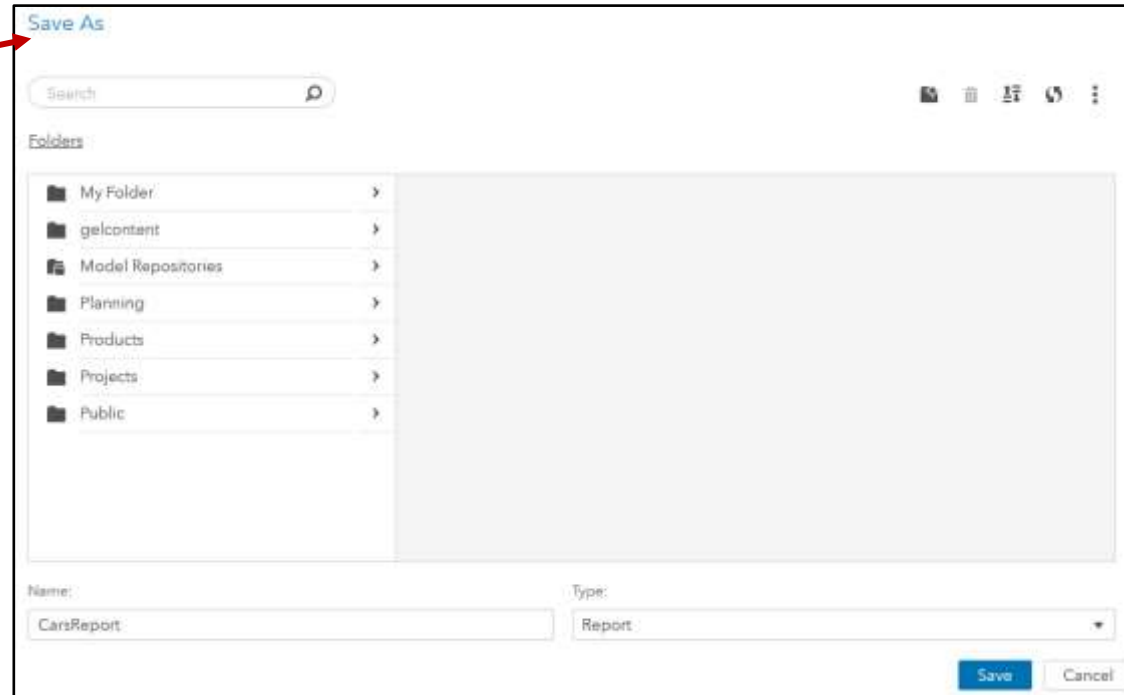
1. Sharing Reports

2. Managing Reports

# Saving Reports (from Edit mode)



When you make a report edit, the Save icon on the toolbar is ungrayed.



In order to save a report to a folder, you must have permissions to add objects to the folder.

# Deleting Reports

Open

Search

Folders > [gelcontent](#) > [Demo](#) > [VISUAL](#) > [Reports](#)

indata  
ALYTICS  
ple  
elp  
IAL  
DMML

Analysis  
Data Plans  
Reports  
Work in Progress

Actions  
Auto Controls Demo  
CarsReport  
Containers

Resources Mappin...

el  
el

Name: CarsReport

Type: Report

Open Cancel

You can delete a report by selecting the report and clicking the garbage can icon.

# Client-side Thresholds for Report Objects

Object	Rows
Crosstab	displays an error message if the server returns more than 40,000 rows.
List table	truncates the data after 40,000 rows.
Bar chart (regular, targeted, and dual axis)	truncates the data after 3,000 rows.
Box plot	displays an error message if the data would create more than 800 boxes.
Bubble change plot	displays an error message if the server returns more than 3,000 rows.
Bubble plot	displays an error message if the server returns more than 25,000 rows.
Butterfly chart	displays an error message if the server returns more than 3,000 rows.
Correlation matrix	allows only 60 measures to be assigned.
Dual axis bar-line chart	displays an error message if the server returns more than 3,000 rows.
Gauge	with the <b>Group</b> role assigned, truncates the data after 500 rows.
Geo map	for the region map style, displays an error if the server returns more than 5,000 rows. An error is displayed if a request to the polygon provider returns more than 250,000 vertices.
	for the bubble map style, displays an error if the server returns more than 25,000 rows.
	for the coordinates map style, displays an error if the server returns more than 40,000 rows.
Heat map	when category values are assigned, displays an error if the server returns more than 3,000 rows.
Histogram	has no client or server cardinality limits.
Line chart (regular and dual axis line)	truncates the data after 3,000 rows.
Needle plot	displays an error message if the server returns more than 3,000 rows.
Numeric series plot	displays an error message if the server returns more than 3,000 rows.
Pie chart	displays an error message if the server returns more than 3,000 rows.
Scatter plot	displays an error message if the server returns more than 40,000 rows.



# Client-side Thresholds for Report Objects (continued)

Object	Rows
Scatter plot	displays an error message if the server returns more than 40,000 rows.
Schedule chart	displays an error message if the server returns more than 3,000 rows.
Step plot	displays an error message if the server returns more than 3,000 rows.
Time series plot (regular and dual axis)	displays an error message if the server returns more than 10,000 rows.
Treemap	truncates the data after 1,500 rows.
Vector plot	displays an error message if the server returns more than 3,000 rows.
Waterfall chart	displays an error message if the server returns more than 3,000 rows.
Word cloud	truncates the data to the value of the <b>Word display limit</b> option. The maximum value is 100.
Button bar	truncates the data after 100 rows
Drop-down list	truncates the data after 500 rows
List	truncates the data after 50,000 rows
Decision tree	displays an error if the server returns more than 100,000 rows for the response values, or more than 10,240 rows for the predictor values.
Network	displays an error message if network contains more than 25,000 nodes and links.
Text topics	displays an error message if the data source contains more than 10,000,000 rows.
	truncates the number of topics to 13.
	truncates the number of terms to 100.
	truncates the number of documents to 1,000.
Data-driven content	truncates the data after 40,000 rows.

# sas.reportdata.properties Configuration

The screenshot shows the SAS Environment Manager interface. On the left, a sidebar contains a list of configuration items. The item `sas.reportdata.properties` is highlighted with a red rectangle. The main panel displays the configuration details for this item. It includes a description, a list of services, and various configuration properties with their values and descriptions. Two green callout boxes with arrows provide additional instructions: one points to the 'Services' section and the other points to the right-hand scrollbar.

**Configuration Details:**

- View:** Definitions
- Filter:**
- Configuration Item:** `sas.reportdata.properties`
- Description:** The set of configuration properties for the Report Data service. The following configuration instances are defined by the configuration definition "sas.reportdata.properties":
- Services:** Report Data service, Report Packages service, Report Renderer service
- GUID:** 81de0df1-bf2f-4ea4-a3cc-b6a11eb416a5  
The globally unique identifier for the configuration instance.
- comparisonEpsilon:** 1e-12  
The number in E notation that is the variability allowed when comparing floating point numbers for equality.
- decisionTreePredictions:** 10240  
The maximum cardinality of independent variables allowed to run a decision tree.

**Annotations:**

- An administrator can edit these.
- Scroll down to view thresholds.

# Distinct Count—Ignore Missing (Yes or No?)

The screenshot shows the SAS Environment Manager interface. On the left is a navigation pane with a list of configuration items: `sas.referencedata.casformats`, `sas.reportalerts`, `sas.reportalertseval`, `sas.reportdata.properties` (highlighted), `sas.reportdata.system`, `sas.reportdistribution`, and `sas.reportdistribution.mail`. Below this list is a green callout box. The main area is titled 'Configuration' and contains a list of settings. The setting `ignoreMissingValue...` is highlighted with a red box and a toggle switch. A green callout box points to this toggle. Other settings visible include `exportTSVandCSVC...` (16384), `exportTSVandCSV...` (100000), `maxRowsLookup:`, and `bubble:` (25000).

By default, missing values are included in the Distinct Count calculation for category data items.

An administrator can toggle this switch to have missing values excluded.

Configuration

View: Definitions Filter

`exportTSVandCSVC...` 16384  
The maximum number of columns allowed for tab- and comma-separated export files.

`exportTSVandCSV...` 100000  
The maximum number of rows allowed for tab- and comma-separated export files.

`ignoreMissingValue...` ☐ Ignore missing values in count distinct.

`maxRowsLookup:`  
A map of the maximum result rows values for the supported visual types.

`bubble:` 25000  
The maximum result rows for a bubble visual.

`sas.scheduleduler`

`sas.scoreexecution`

# Overriding Data Limits for an Object

- In VA 8.2 on the Options tab, the Object option **Override system data limit** enables you to override the cardinality thresholds for a report object.
- When you check the option, the data limit displays, and you can modify the value.

Do not override system values carelessly—changes will directly affect performance.

The screenshot shows the 'Options' dialog box for a report object named 'List Table 1'. The 'Object' section is expanded, showing fields for Name, Title, and Description. Below these fields, there are two checked options: 'Enable selection in the viewers' and 'Override system data limit:'. The 'Override system data limit' option is highlighted with a red rounded rectangle, and its value '40,000' is displayed in a text box. A green callout box with an arrow points to the 'Override system data limit' option, containing the text: 'Do not override system values carelessly—changes will directly affect performance.'

Options

List Table 1

Object

Name: \*

List Table 1

Title:

No title

Description:

☒ Enable selection in the viewers

☒ Override system data limit:

40,000

Style

Layout

Options

Roles

Actions

Rules

Filters

Ranks

# Report Localization

Able to create additional translations of report attributes so that a users' browser locale preference dictates which attributes are returned.

- One report can have multiple translations
- ISO 693 two-letter language code and two-letter country code used to identify the translated text

```
en_US
vi6.Section.label = Page 1 Bars Chart Shows Trend Clearly
vi78.Section.label = Page 2 Scatter
ve38.Graph.label = Auto Chart 1
ve47.Graph.label = Auto Chart 2
bi11.DataItem_AIRPORT4_NETWORK_centra_degree_out.label = centra_degree_out
bi15.DataItem_AIRPORT4_NETWORK_DestCityLat.label = Dest City Latitude
bi16.DataItem_AIRPORT4_NETWORK_DestCityLng.label = Dest City Longitude
bi18.DataItem_AIRPORT4_NETWORK_DestCityName.label = Dest City Name
bi19.DataItem_AIRPORT4_NETWORK_DestState.label = Destination State
bi24.DataItem_AIRPORT4_NETWORK_Origin.label = Origin Code
bi28.DataItem_AIRPORT4_NETWORK_OriginCityLng.label = OriginCity Latitude
bi29.DataItem_AIRPORT4_NETWORK_OriginCityMarketID.label = Origin City MarketID
bi31.DataItem_AIRPORT4_NETWORK_OriginState.label = Origin State Code
bi33.DataItem_AIRPORT4_NETWORK_OriginStateName.label = Origin State Name
bi35.SourcePredefinedDataItem_AIRPORT4_NETWORK.label = Frequency
```

```
de
vi6.Section.label = Seite 1 Balkendiagramm zeigt deutlich die Richtung
vi78.Section.label = Seite 2 Punktdarstellung
ve38.Graph.label = Auto Grafik 1
ve47.Graph.label = Auto Grafik 2
bi11.DataItem_AIRPORT4_NETWORK_centra_degree_out.label = Grad der Zentralität
bi15.DataItem_AIRPORT4_NETWORK_DestCityLat.label = Dest Stadt Latitude
bi16.DataItem_AIRPORT4_NETWORK_DestCityLng.label = Dest Stadt Longitude
bi18.DataItem_AIRPORT4_NETWORK_DestCityName.label = Dest Stadt Name
bi19.DataItem_AIRPORT4_NETWORK_DestState.label = Destination State
bi24.DataItem_AIRPORT4_NETWORK_Origin.label = Abfahrt Code
bi28.DataItem_AIRPORT4_NETWORK_OriginCityLng.label = Abfahrt Stadt Latitude
bi29.DataItem_AIRPORT4_NETWORK_OriginCityMarketID.label = Abfahrt Stadt Markt ID
bi31.DataItem_AIRPORT4_NETWORK_OriginState.label = Abfahrt State Code
bi33.DataItem_AIRPORT4_NETWORK_OriginStateName.label = Abfahrt State Name
bi35.SourcePredefinedDataItem_AIRPORT4_NETWORK.label = Frequenz
```

# Report Localization Steps

- VA 8.2 does not currently have an option to perform report localization through the user interface.
- VA 8.2 does provide a REST API to perform report localization.
  - Customer-facing documentation is not yet available.
  - The API is called ReportTransformsService and is considered production quality.
  - There is internal-only draft documentation here:  
<http://swagger.na.sas.com/apis/reportTransforms/v2/apidoc.html>
  - When available, the documentation should appear off this page:  
<https://developer.sas.com/guides/rest.html>
  - There is also a SASpedia page:  
[http://sww.sas.com/saspedia/Report Transforms REST API](http://sww.sas.com/saspedia/Report_Transforms_REST_API)
- The ReportTransformsService can also be used to change the data source for a report.

# Report Troubleshooting

If there are performance issues with a report, there is an **internal** diagnostic tool, useful for troubleshooting report data issues.

- From **Edit** mode, refresh the report, then click anywhere in the report, or on a specific report object.
- Use **Ctrl + Alt + q** to display the Query Diagnostics window.
- There is also some overview diagnostic information available by using **Ctrl Alt + p**. This tool displays a SAS Visual Analytics Diagnostics window, but does not provide the same level of detail as the Ctrl + Alt+ q tool.

# Query Diagnostics—Ctrl + Alt + q

## Query Diagnostics

Report data: November 15, 2017 08:17:36 PM

c44: List Table 1 - ve57



3707 ms



XML

JSON

Query

URL

Results

Results (data)

```
<Result xmlns="http://www.sas.com/sasreportmodel/bird-4.1.0" ref="c44: List Table 1 - ve57" status="success" dataLevel="custom" label="Result">
  <Variables>
    <StringVariable label="Make" ref="bi87" varname="bi87" />
    <StringVariable label="Type" ref="bi89" varname="bi89" />
    <StringVariable label="Origin" ref="bi90" varname="bi90" />
    <StringVariable label="Invoice" ref="bi98" varname="bi98" />
  </Variables>
  <Columns>
    <StringColumn maxLength="15" colname="c0" encoding="UTF-8" />
    <StringColumn maxLength="8" colname="c1" encoding="UTF-8" />
    <StringColumn maxLength="8" colname="c2" encoding="UTF-8" />
    <StringColumn maxLength="10" colname="c3" encoding="UTF-8" />
  </Columns>
  <DefinedSortItems>
    <DefinedSortItem variable="bi90" sortDirection="descending" />
  </DefinedSortItems>
</Result>
```

Replay  
button

- ☒ Retrieve from cache
- ☒ Homogenize
- ☒ csv response
- ☐ CAS log
- ☐ BI Data log
- ☐ String Table

You can select an element  
from the list and an output  
type to display before  
replaying the query.

Close



# Play Button—Query Timings

Query Diagnostics

Generated query for Line Chart 1 [More] [Play] 1342ms [Trash] XML JSON

Query URL Results Results(data) CAS Action Log Server Log

```
Manifest buildTime: 2017-03-09T01:01:08-0500
Manifest GitInfo: 2017-03-08T15:58:44-0500::557337e7de0128da2bdd8b858d8de1d60746f68e
dd70Measures:[]
Hierarchies:[]
Detail filter:null()

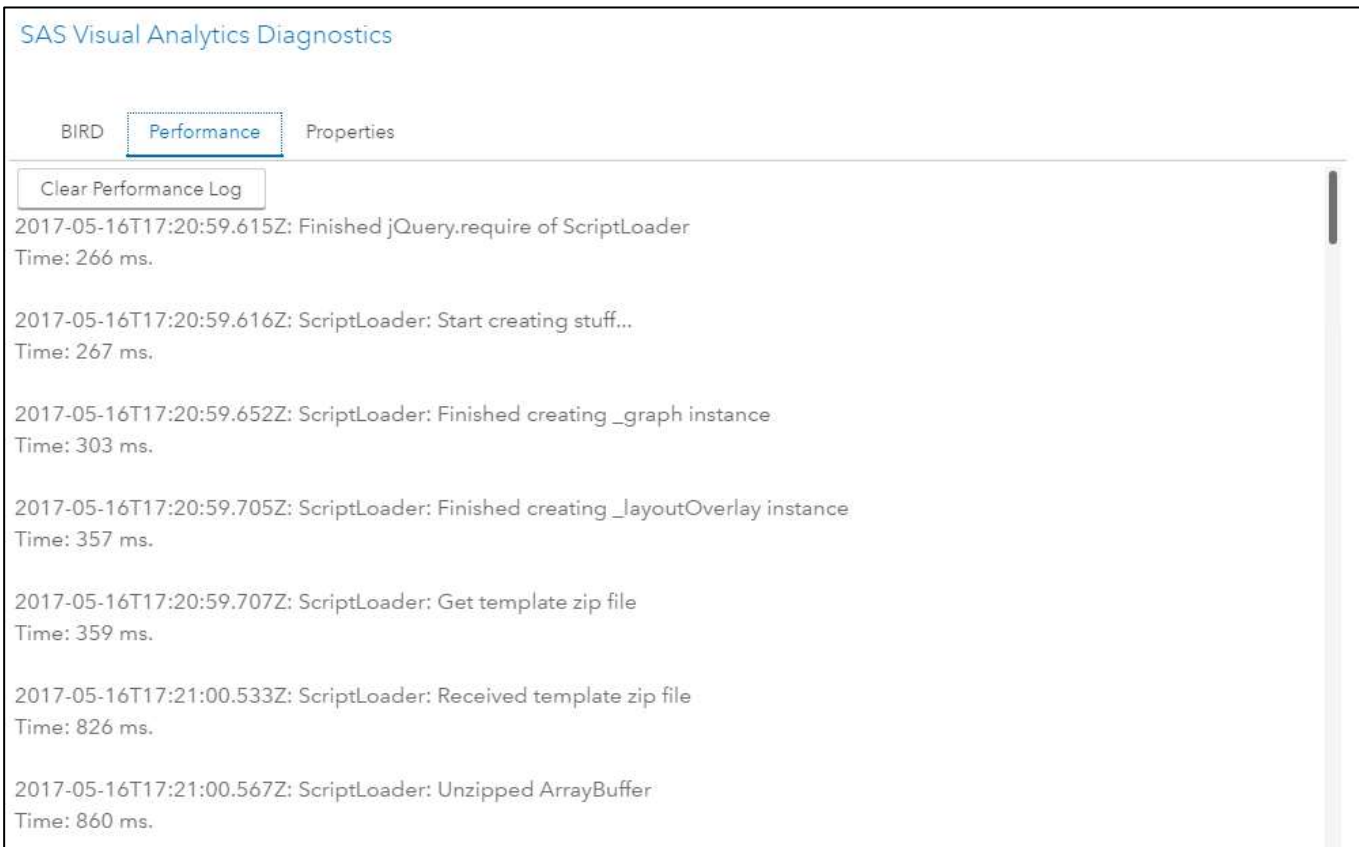
sas.reportdata.custom.expectedMaxCharsPerColumn sas.reportdata.custom.midtierAllocationByteLimit summary estimate row limit:26214 sas.reportdata.custom
Initiating query
Manifest specificationVersion: 1.1.2097
Manifest buildTime: 2017-03-09T01:01:08-0500
Manifest GitInfo: 2017-03-08T15:58:44-0500::557337e7de0128da2bdd8b858d8de1d60746f68e
dd70Measures:[]
Hierarchies:[bi15:Date by Year[referencedByConsumer:(bi15:Date by Year:DateByYear:referred)]]
Detail filter:and(eq({bi15},18628))

Client locale: en_US
Manifest specificationVersion: 1.1.2097
Manifest buildTime: 2017-03-09T01:01:08-0500
Manifest GitInfo: 2017-03-08T15:58:44-0500::557337e7de0128da2bdd8b858d8de1d60746f68e
dd70Measures:[]
Hierarchies:[bi15:Date by Year[referencedByConsumer:(bi15:Date by Year:DateByYear:referred)]]
Detail filter:and(eq({bi15},18628))

query constructor time elapsed:1milliseconds, total elapsed:1

sas.reportdata.defaultMaxCellsProducedrow limit :83333 sas.reportdata.custom.protobufSizeLimitrow limit :800000 sas.reportdata.custom.expectedMaxCharsI
com.sas.bidata.result.cas.CasAggregateQueryRunner time elapsed:1263milliseconds, total elapsed:1266
```

# Performance Summary—Ctrl + Alt + p



SAS Visual Analytics Diagnostics

BIRD **Performance** Properties

Clear Performance Log

2017-05-16T17:20:59.615Z: Finished jQuery.require of ScriptLoader  
Time: 266 ms.

2017-05-16T17:20:59.616Z: ScriptLoader: Start creating stuff...  
Time: 267 ms.

2017-05-16T17:20:59.652Z: ScriptLoader: Finished creating \_graph instance.  
Time: 303 ms.

2017-05-16T17:20:59.705Z: ScriptLoader: Finished creating \_layoutOverlay instance  
Time: 357 ms.

2017-05-16T17:20:59.707Z: ScriptLoader: Get template zip file  
Time: 359 ms.

2017-05-16T17:21:00.533Z: ScriptLoader: Received template zip file  
Time: 826 ms.

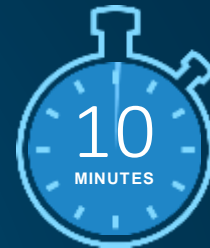
2017-05-16T17:21:00.567Z: ScriptLoader: Unzipped ArrayBuffer  
Time: 860 ms.

# Performance Considerations

More complex reports with complex filters, multiple data sources, many objects per page, and complex calculations will, of course, take longer to display. Remain conscious of this when designing your reports.

Research is still in progress to identify any specific issues  
For the VA 8.3 release.





# Hands-On Exercise

Task:

Try out Ctrl-Alt-q and Ctrl-Atl-p to view diagnostics on one of your favorite reports created in the class.

# Additional References



High-Cardinality Thresholds for Report Objects in *SAS® Visual Analytics 8.3: Reference*

<http://pubshelpcenter.unx.sas.com:8080/test/?cdclId=vacdc&cdcVersion=8.3&docsetId=varef&docsetTarget=p07uif0jfvvtijon0zgblm5hiaqip4.htm&locale=en>