Visual Analytics - Scheduling

Mark Bodt
November 2015
Agenda

1. What can you schedule in VA
2. Schedulers and their differences
What can you schedule in VA?

Visual Data Query
What can you schedule in VA?

Report Distribution

CLICK HERE FOR MORE INFO ON THIS SECTION

Regional Returns

Returns

East 26.8%
Midwest 27.7%
Southeast 13.3%
West 33.1%

Returns by State

Returns (billions)

CA $3.0
FLA $2.0
NB $1.5
NC $1.0
NY $4.0
OK $0.5
OR $0.5
SC $3.0
TX $2.0
WA $1.0

State and Industry Risk Exposure

<table>
<thead>
<tr>
<th>State</th>
<th>Industry</th>
<th>Exposure</th>
<th>Capital Used</th>
<th>RAROC</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA</td>
<td>Agriculture</td>
<td>$2,698,165,203</td>
<td>$488,955,896</td>
<td>45%</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>$2,841,138,457</td>
<td>$475,977,747</td>
<td>45%</td>
</tr>
<tr>
<td></td>
<td>Energy</td>
<td>$4,697,216,701</td>
<td>$591,002,307</td>
<td>59%</td>
</tr>
<tr>
<td></td>
<td>Finance Insurance</td>
<td>$4,672,340,259</td>
<td>$620,254,854</td>
<td>89%</td>
</tr>
<tr>
<td></td>
<td>Manufacturing</td>
<td>$2,406,000,588</td>
<td>$401,892,310</td>
<td>47%</td>
</tr>
<tr>
<td></td>
<td>Mining</td>
<td>$2,965,670,454</td>
<td>$505,188,588</td>
<td>45%</td>
</tr>
</tbody>
</table>

Exposure (billions)

RAROC

<table>
<thead>
<tr>
<th>Capital</th>
<th>Commercial</th>
<th>Commercial</th>
<th>HELCO</th>
<th>Mortgage</th>
<th>Auto Loans</th>
<th>Non-Prime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure</td>
<td>80%</td>
<td>60%</td>
<td>40%</td>
<td>20%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>RAROC</td>
<td>80%</td>
<td>60%</td>
<td>40%</td>
<td>20%</td>
<td>0%</td>
<td>0%</td>
</tr>
</tbody>
</table>
What can you schedule in VA?

Report Distribution

Distribution owner: Mark Bodt
One or more reports are attached to this message.

- Test Heart Report
  http://www.example.com/SASVisualAnalytics/reports?location=2FUser%20Folders%2FMy%20Folder%2FFast%20Heart%20Report&type=Report_R1
Schedulers and their differences
Schedulers and their differences

Schedulers are used to run specified SAS related job flows at a specified time. Examples:

- Data Integration Studio (ETL) jobs for refreshing data warehouse tables
- Metadata server and SAS Deployment backups
- Web Report Studio Reports
  - Refreshing static reports
  - Distributing reports
- Visual Analytics Data Queries to refresh a LASR table
- Visual Analytics Report distribution
Schedulers and their differences

Deployed Job:
• a .sas program
• that is located in a specified deployment directory
• and is registered in metadata.

```sas
filename seccodes url "&URL_SecurityCodes&letter..htm" DEBUG ;
data Securities_&letter;
length Market $8 code $6 line $32767 lasttag tagpart $1000 type $12;
array tagparts(10) $1000 ;
```
Schedulers and their differences

Terminology

Flow: one or more jobs arranged in sequence and/or in parallel
Schedulers and their differences

- There are up to four schedulers available by default to the SAS Infrastructure and VA:
  - Operating System Services
  - SAS In-Process Services
  - SAS Distributed In-Process Services
  - Platform Computing LSF
Schedulers and their differences

Operating System Services:
- Windows: Windows Task Scheduler
- Linux: AT command

Can only do simple time based scheduling
SAS In-Process Services

- A SAS provided scheduler
  - Used by Web Report Studio
  - Deprecated
Schedulers and their differences

SAS Distributed In-Process Services

- A SAS provided scheduler
  - Time based events
  - File based events
Schedulers and their differences

Platform Computing (LSF and Process Manager)

- A SAS provided scheduler (with DI Server)
  - Time based events
  - File based events
  - Complex scheduling
Schedulers and their differences

Other Schedulers:

- Other third party schedulers can also be configured to work with the SAS Infrastructure
- Refer to the manual: Scheduling in SAS® 9.4
Schedulers and their differences

What’s available at my site?

- Ask your administrator
- Look in the Server Manager Plug in SAS Management Console
How to Schedule in Visual Analytics
Scheduling a Visual Data Query

Setting the default scheduler

- In Visual Data Builder select File – Preferences
Scheduling a Visual Data Query
Setting the default scheduler

Preferences

Global Preferences
SAS Visual Data Builder
General
Scheduling

Scheduling

Default scheduling server: SAS Distributed In-Process Services Scheduling Server
Default batch server: SASApp - SAS DATA Step Batch Server
Default deployment directory: Batch Jobs

OK Cancel
Scheduling a Visual Data Query

Schedule this VDQ

Schedule

The query is not scheduled to be run.
Select “Run Now” to run the query immediately. The existing schedule is preserved.
“Select one or more triggers” to specify the events that must occur for the scheduled query to run.

- Run now
- Select one or more triggers for this query

Grouping conditions
- Run when any of the conditions occur
- Run only when all of the conditions occur

New Time Event
New File Event
Edit
Delete

OK Cancel
Scheduling a Visual Data Query
Scheduling a VA Report Distribution

- Pre-requisite: Users must have their email address registered in metadata
- In Report Designer: File – Distribute Reports
Scheduling a VA Report Distribution

**Edit Report Job**

- **Name:** Mark_Bodt_test_report_distribution

**Properties**

- **Reports:** Test Heart Report

**E-mail Options**

- **Recipients:**

**Notifications**

**OK**  **Cancel**
## Scheduling a VA Report Distribution

### Show History

<table>
<thead>
<tr>
<th>Name: Mark_Bodt_test_report_distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Start Time</strong></td>
</tr>
<tr>
<td>Friday, 23 October 2015 05:57:37 PM</td>
</tr>
<tr>
<td>Friday, 23 October 2015 05:56:16 PM</td>
</tr>
</tbody>
</table>

[Close]
References:

Scheduling in SAS® 9.4

SAS® Visual Analytics 7.3
User's Guide
Questions?