

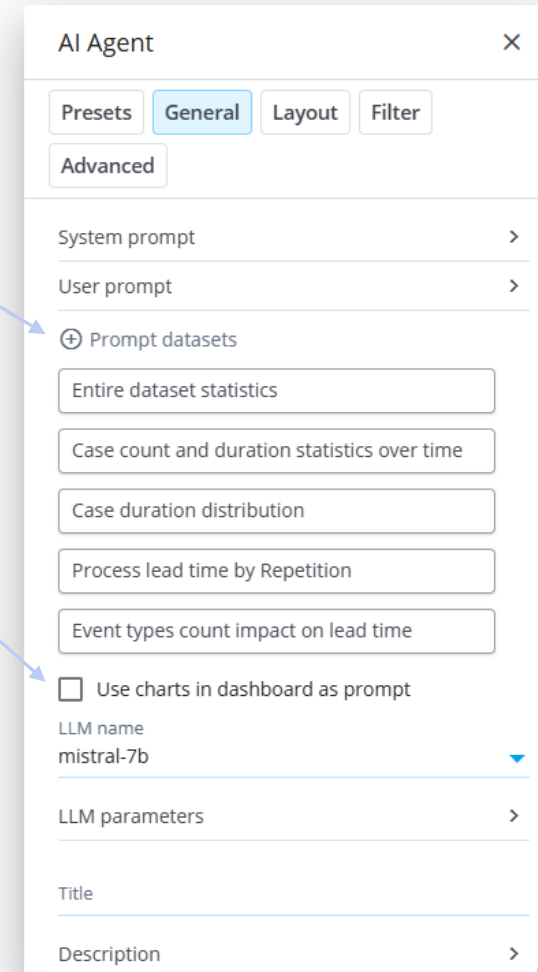


QPR ProcessAnalyzer 2025.3 – New features

Prompt datasets for AI Agent can be defined more easily, and AI Agent can explain entire dashboard

- AI Agent *prompt datasets* can be browsed visually and changed in chart editor dialog
 - Prompt datasets can be added, deleted and ordered using drag-and-drop
- Other charts in dashboard can be added to AI Agent prompt
 - Allows to build AI Agents that explain the entire dashboard
 - Analysis is rerun when any chart's settings change, such as on-screen settings
 - Flowcharts and other AI Agents are not used as prompt
- User prompt sent to LLM consists of:
 - User prompt text
 - Prompt datasets
 - Datasets from other charts (if enabled)

wiki.onqpr.com/pa/index.php/AI_Agent



AI Agent

Presets General Layout Filter

Advanced

System prompt >

User prompt >

+ Prompt datasets

Entire dataset statistics

Case count and duration statistics over time

Case duration distribution

Process lead time by Repetition

Event types count impact on lead time

☐ Use charts in dashboard as prompt

LLM name
mistral-7b

LLM parameters >

Title

Description >

Object-centric model structure and object relation following has been simplified

- When perspective is calculated, object-to-object relations are traversed by going through all object types once – regardless of relation direction
- For object-centric models, only following datatables are mandatory: **Objects, Events, Event-to-object**
- Following datatables are optional:
 - **Object types:** Needed if there are object type specific attributes
 - **Event types:** Needed if there are event type specific attributes
 - **Object-to-object:** Needed if there are object-to-object relations
- *Common attributes* can be added in Objects and Events tables – easier than defining same attributes for all object/event datatables
- Object type datatables can use simplified schema without *OcelObjectTypeTime* and *OcelObjectTypeChangedField* columns if object attribute values don't change over time
 - With simplified schema, object attributes are not shown as event attributes in the perspective eventlog
- *Object relation steps* setting is optional – when empty, all object-to-object relations are traversed

wiki.onqpr.com/pa/index.php/Object-centric_Process_Mining_Model

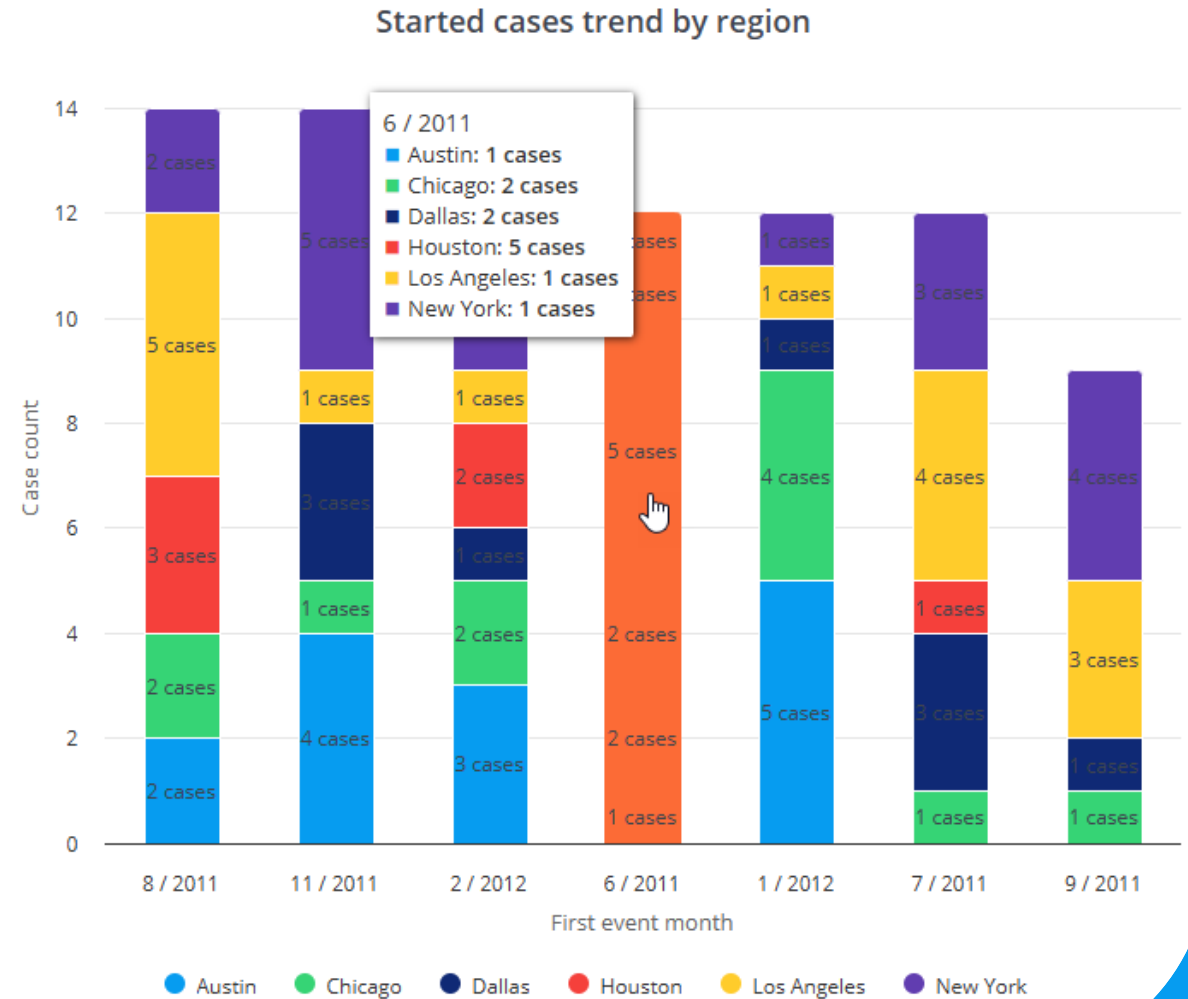
Snowflake Event Types preset indicates wanted and unwanted activities

- Snowflake *Event Types* preset has been improved by including a method to find wanted and unwanted activities
 - Activities with green symbol are included in $\geq 80\%$ of total cases, meaning they are most likely standard or mandatory activities
 - Activities with yellow symbol are included in 20-80 % of total cases, meaning that they might be standard activities in some process variants like a country or product specific variant
 - Activities with red symbol are included in $< 20\%$ of total cases, meaning it's likely they are unwanted exceptions

Event Types					
Event type	Cases	% Cases	Events occurred	Events per...	
Customer PO Date	117,890 cases	✓ 100 %	117,890 events	1.0 events/case	
SO Item Created	117,890 cases	✓ 100 %	117,890 events	1.0 events/case	
Delivery Created	106,096 cases	✓ 90 %	108,859 events	1.0 events/case	
Shipment Created	104,605 cases	✓ 89 %	107,039 events	1.0 events/case	
Delivery: Goods Issue	100,904 cases	✓ 86 %	104,282 events	1.0 events/case	
Invoice Created	99,364 cases	✓ 84 %	141,324 events	1.4 events/case	
Invoice Due Date	88,711 cases	? 75 %	117,029 events	1.3 events/case	
Invoice Clearing	66,832 cases	? 57 %	85,604 events	1.3 events/case	
SO Item Changed: Net price	16,269 cases	✗ 14 %	20,181 events	1.2 events/case	
Billing Block: Deactivated	10,065 cases	✗ 9 %	10,686 events	1.1 events/case	
SO Rejection: Activated	7,027 cases	✗ 6 %	8,086 events	1.2 events/case	
Delivery Block: Deactivated	6,749 cases	✗ 6 %	7,467 events	1.1 events/case	
SO Item Changed: Manual price	5,132 cases	✗ 4 %	5,991 events	1.2 events/case	
SO Item Changed: Plant	2,968 cases	✗ 3 %	3,451 events	1.2 events/case	
SO Rejection: Deactivated	1,624 cases	✗ 1 %	2,304 events	1.4 events/case	
SO Item Changed: Material	885 cases	✗ 1 %	949 events	1.1 events/case	

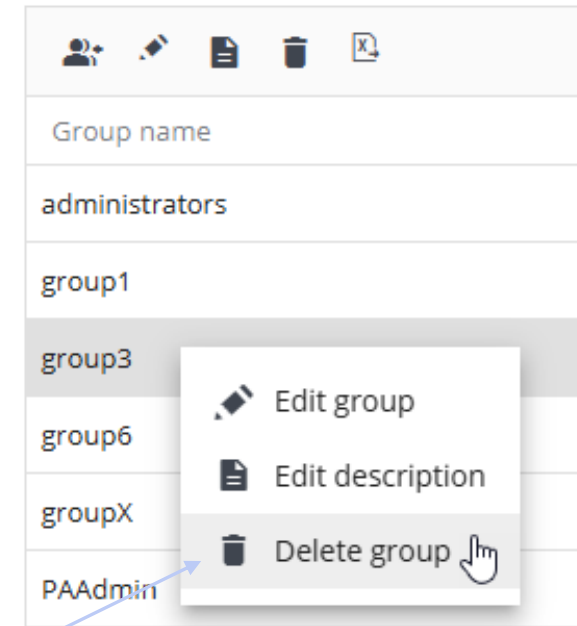
Creating filters can be disabled for individual dimensions

- There is a checkbox in dimension and column settings for disabling filtering for specific dimension or column
- When chart datapoints are clicked, filter rules are created only for those dimensions or columns where filtering is enabled
- Use case: Stacked charts where filtering is desired only for the time axis
- Note: it's also possible to disable filter creation for the entire chart in the *Filters* tab



SAML authentication can sync groups from external user management

- SAML 2.0 authentication can now synchronize user groups during authentication
- How it works
 - Group memberships are managed in organization's user management
 - When user login to QPR ProcessAnalyzer, group memberships are automatically updated based on information from identity provider
- How it's configured
 - Groups need to be created beforehand in QPR ProcessAnalyzer and permissions assigned to them
 - System setting **SAMLGroupsAttribute** defines SAML assertion attribute containing groups (leave empty to disable sync)
- When enabled, it's not possible to set memberships in QPR ProcessAnalyzer because they are overridden on login
- In addition, groups can be deleted
 - Group's memberships and permissions are also deleted



System-wide secrets make handling scripts easier

- *Secrets* are used to safely store passwords etc. used by scripts
- Secrets can be defined as system-wide (global) which are available for scripts in all projects
- New operations for generic context:
 - **SetSecret** function to set secret
 - **Secrets** property to read secrets
- Use case: When a new project is added, it will automatically have the global secrets without setting project level secrets

wiki.onqpr.com/pa/index.php/Storing_Secrets_for_Scripts

Examples

Set a global secret:

```
SetSecret("sap", "SapReaderPassword", "I l0ve 5AP!");
```

See all global secrets:

```
ToJson(Secrets);
```

Other improvements for Snowflake

- List of case and event attributes show unique values count also for Snowflake models

- Counts are followed by active filters

Attribute
Product
Agreement (11,210 items)
Case Name (1,257,110 items)
Finalized (2 items)
Gross_weight (6,796 items)
Product (70 items)
Terminal (27 items)
Volume (3,634 items)

- Model validity check has been extended to find issues in data for Snowflake case-centric models

- `ToJson(ModelById(1).CheckModelValidity("#{ "CheckData": true })))`

- Snowflake *Clustering* preset shows number of occurred events as cluster features

- Clustering shows how many times certain event occurred within case, helping to identify repetition and rework

Feature	Cluster densi...	Total density...	Contribution ...
▼ Cluster 3 (6 % of cases)			
PO: Material Group: Monitors 2	100.0 %	5.8 %	94.2 %
Event type: PO Approved (1 times)	3.4 %	1.4 %	2.0 %
PO: Material Group: Injectors	0.0 %	0.1 %	-0.1 %
PO: Material Group: floor	0.0 %	0.1 %	-0.1 %
PO: Material Group: video games	0.0 %	0.1 %	-0.1 %
▼ Cluster 4 (3 % of cases)			
PO: Material Group: Tires 3	100.0 %	3.4 %	96.6 %
Event type: PO Approved (2 times)	14.7 %	2.6 %	12.1 %
Event type: PO Approved (3 times)	2.9 %	0.4 %	2.5 %
PO: Material Group: Injectors	0.0 %	0.1 %	-0.1 %
PO: Material Group: floor	0.0 %	0.1 %	-0.1 %
▼ Cluster 5 (2 % of cases)			
PO: Material Group: hanger	100.0 %	1.6 %	98.4 %