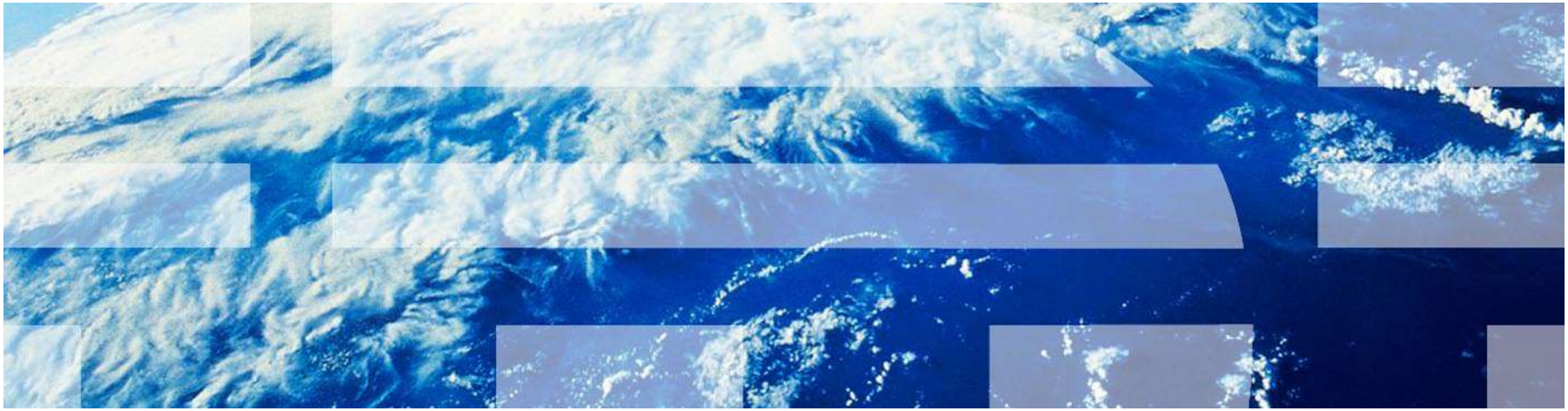
Value of IBM InfoSphere Information Server

Information Governance Catalog - Lineage



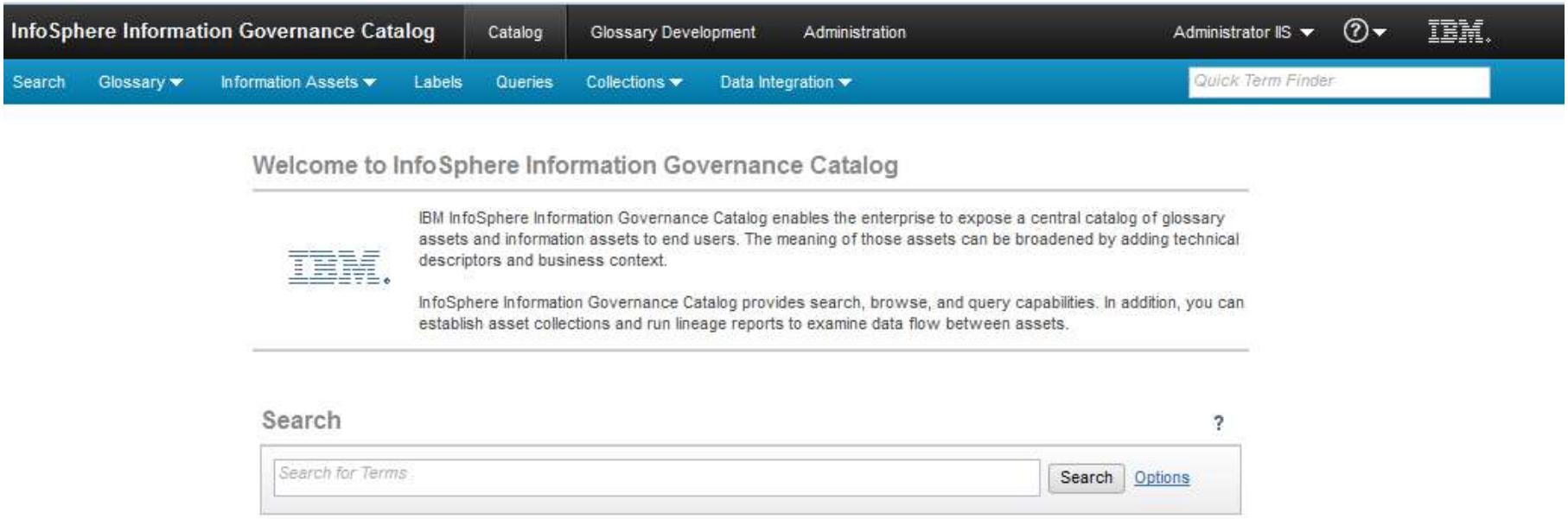
Objectives

- Understand the Information Governance Catalog Assets
  - Queries
  - Collections and Labels
  - Lineage

Information Governance Catalog

- Allows you to understand where information came from and where it is used
- A key enabler to regulatory compliance and the IBM Data Governance Maturity Model

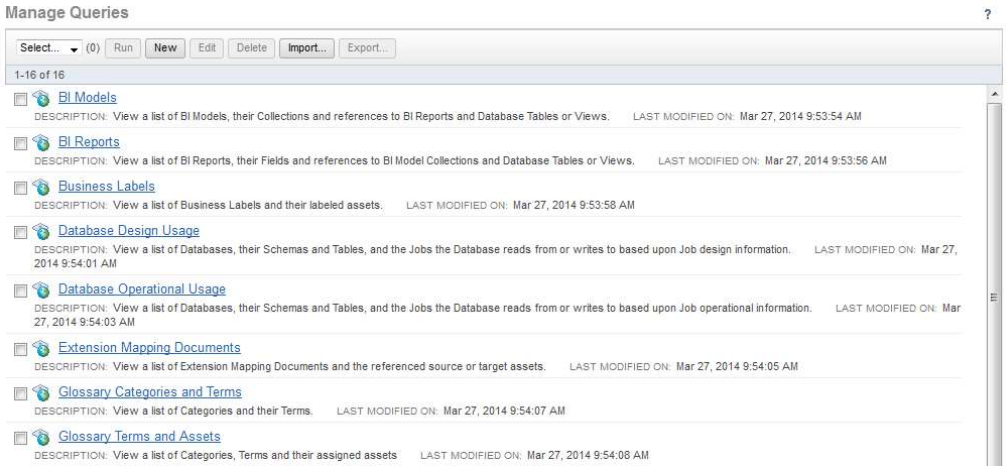
- Cross-tool reporting on:
  - Data movement and lineage
  - Business meaning
  - Impact of changes
  - Dependencies
  - Data lineage for BI Reports



Information Governance Catalog Queries

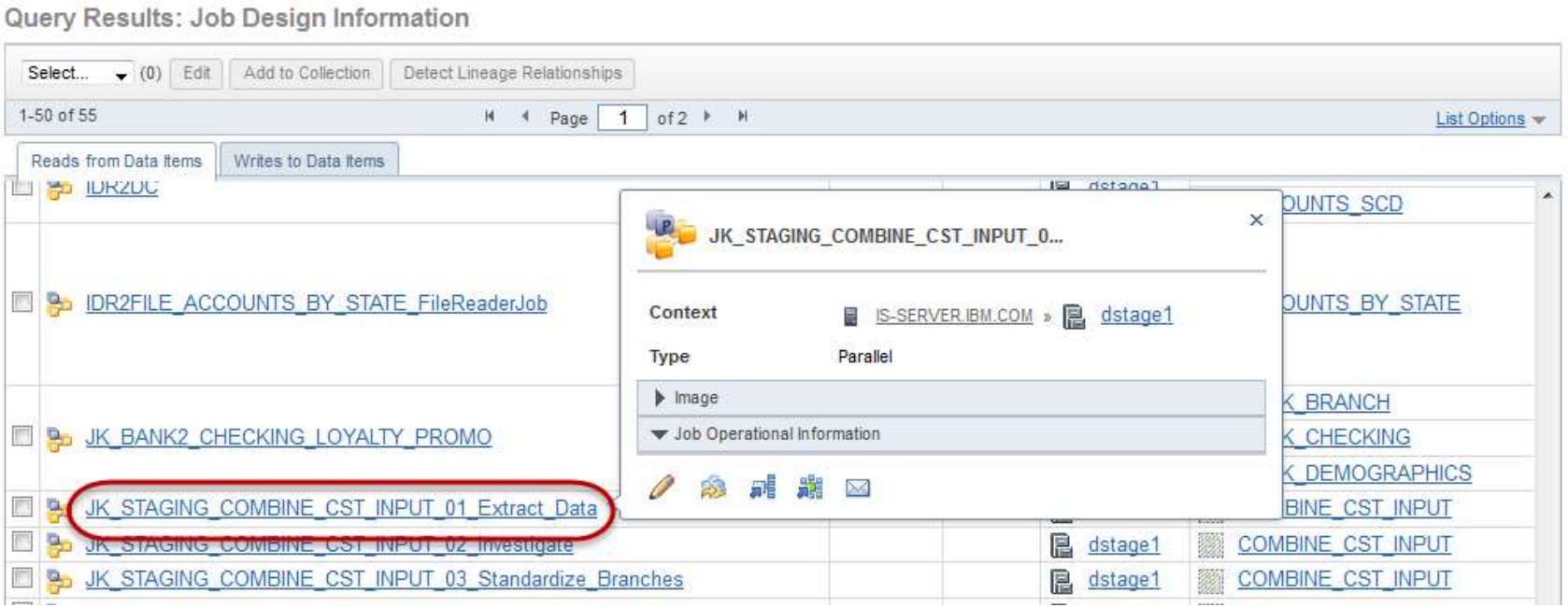
Gain visibility to a more complete view of information assets

- Explore
  - Jobs, reports, databases, files, tables, columns, terms, stewards, servers
  - View data rule descriptions, policies, stewards, and rule expressions
  - View data relationships and insights discovered by InfoSphere Discovery
  - Graphical or report view of asset relationships
  - Simple and advanced search
    - Search by various asset classes
    - Save and share your searches
    - Graphical query builder
    - Many out-of-the-box queries



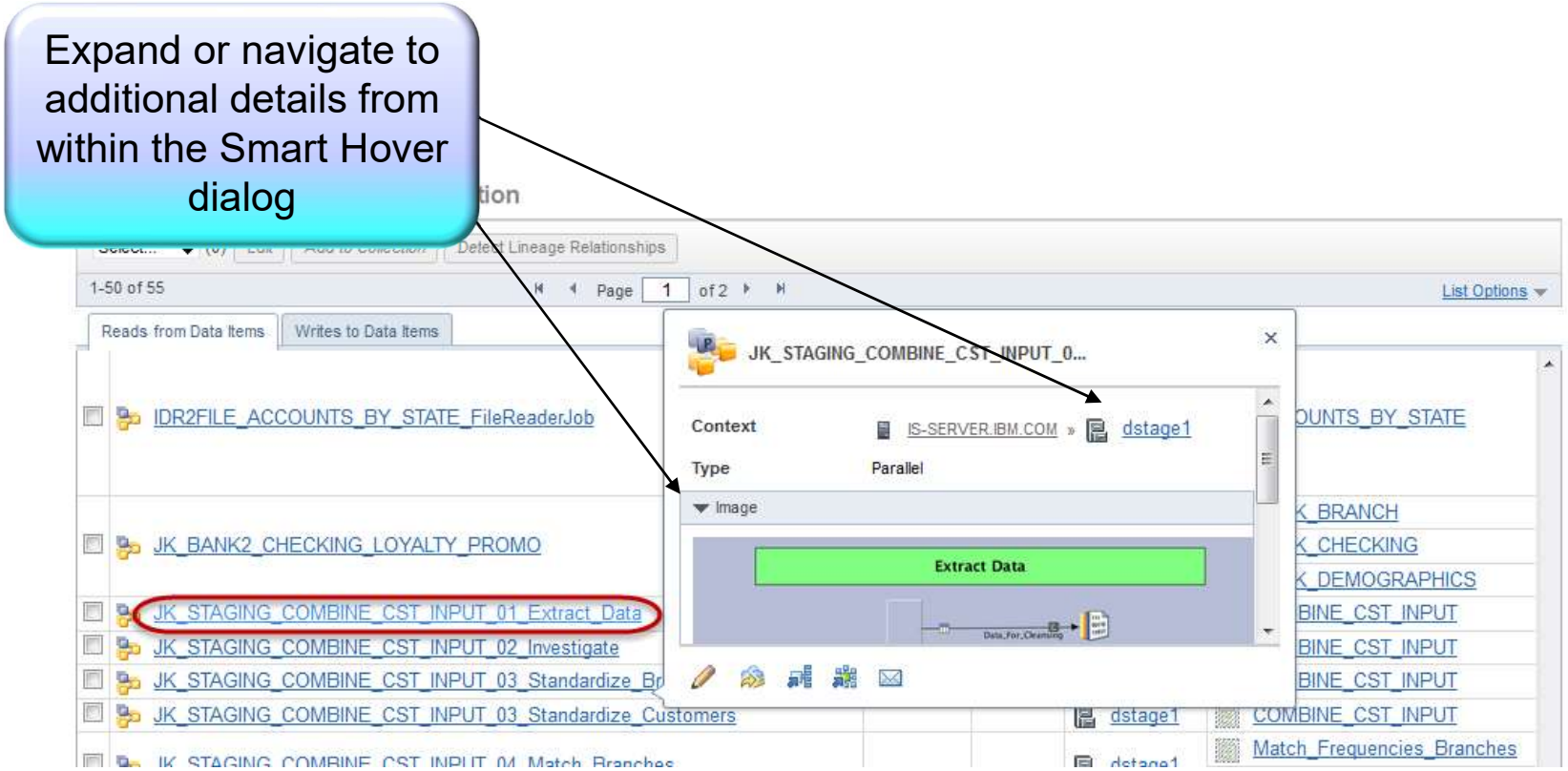
Smart Hover

- Innovative technology for viewing metadata details without losing context of the object currently being viewed



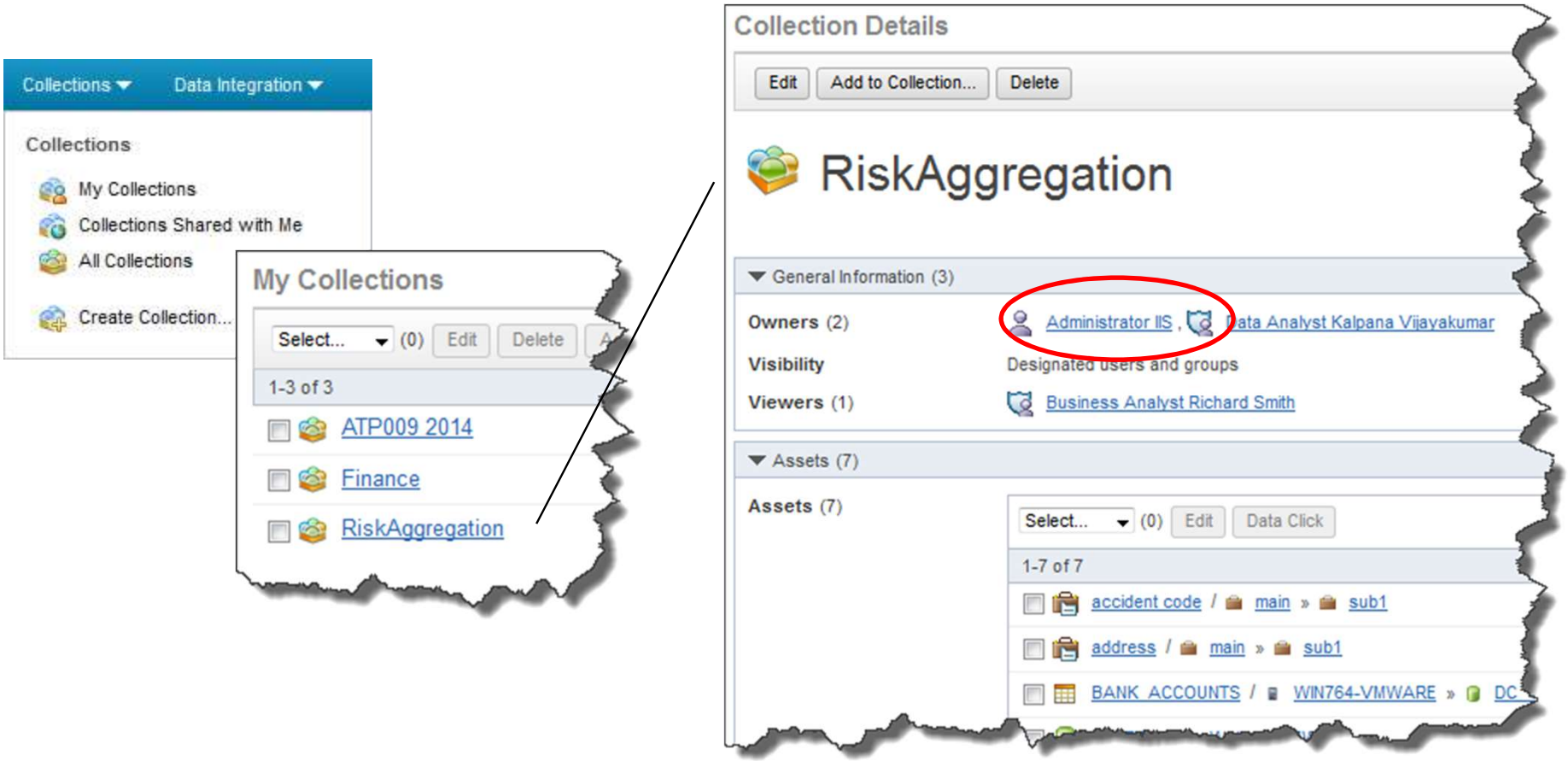
Smart Hover (continued)

- Open the twistie to see even further details (the types of detail available depends on the object that you are hovering on).



Collections

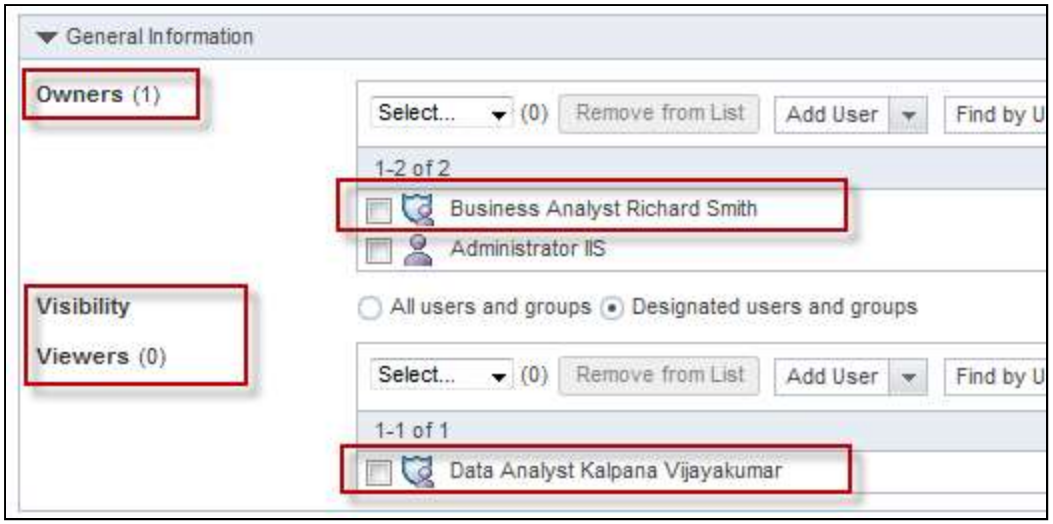
- “Sets” of related assets
- Provides a direct “focus” for subject matter experts and teammates



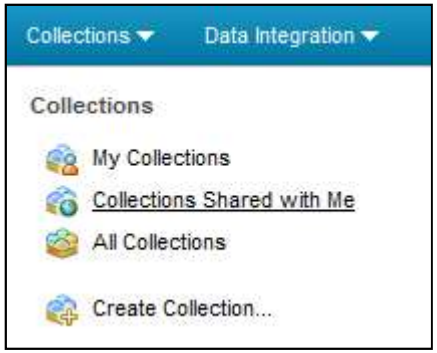
Collections (continued)

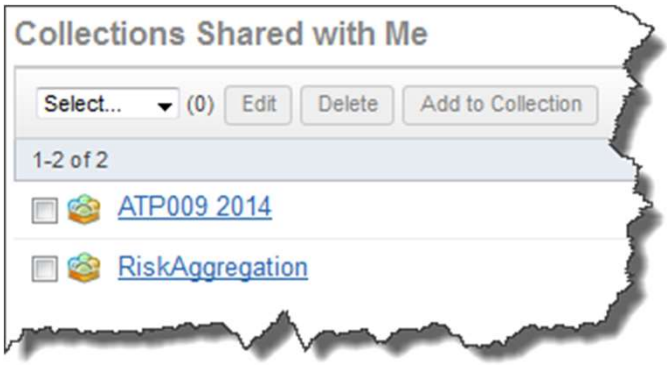
- Collections can be "shared" with other users as editors or viewers

Owner edits the Collection Properties...



...and then Business Analyst Richard or Data Analyst Kalpana logs in...



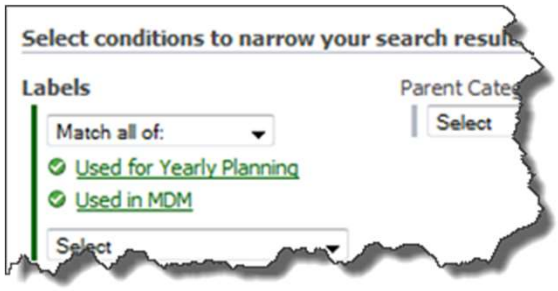


Collections (continued)

- How are Collections different from Labels?
  - Collections have "owners"
  - Every user can create their own Collections!
    - Labels can only be created by Administrators and assigned by Authors
  - Collections can be shared with other users as co-owners or viewers
  - Collections themselves can be governed (and have custom attributes)
  - Collections can be "nested"

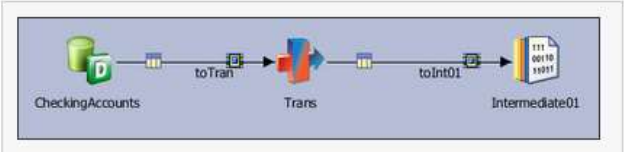
- How are Labels different from Collections?
  - Labels are like "sticky" notes. Attach to any object
  - Seen by everyone. Assigned only by Authors. Created only by Administrators

  - Labels have unique properties for complex multi-label filtered searches



Enhanced Lineage

- Write a Job, get Lineage…



Enhanced Lineage (continued)

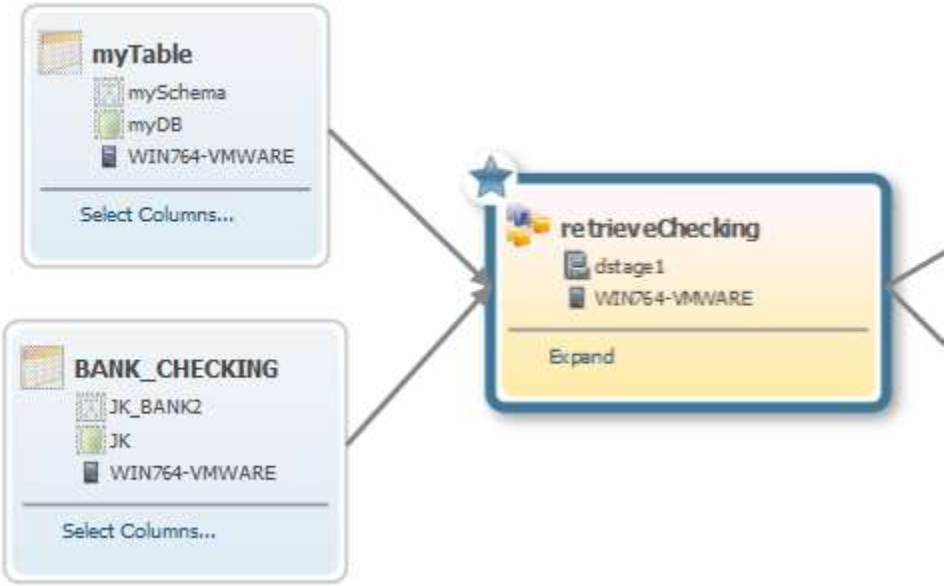
- Introducing Virtual Assets
  - Job detail immediately illustrates “reads from” and/or “writes to "Virtual Assets
  - Examples of Virtual Assets (sources):

Design based Virtual Asset using Job Parameter Defaults...

	Parameter name	Default Value
1	database	myDB
2	schema	mySchema
3	tablename	myTable

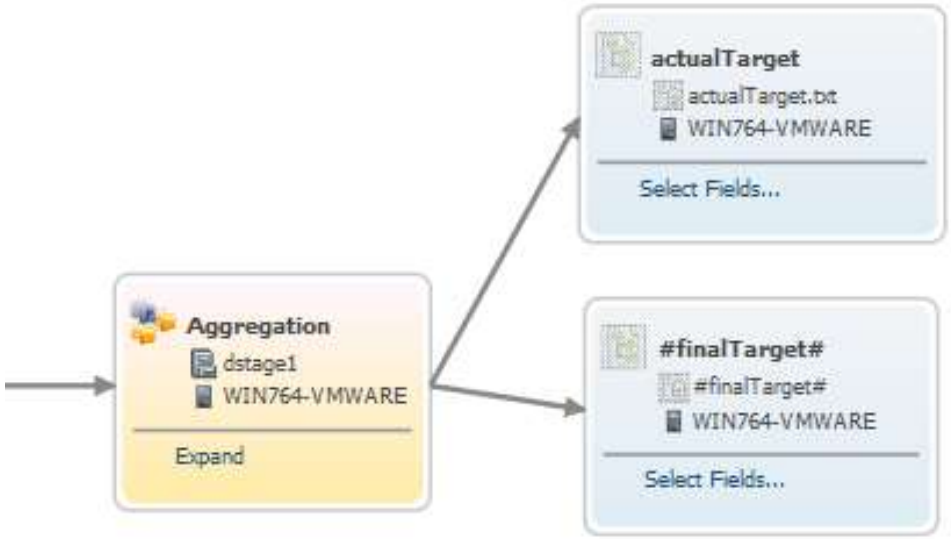
Operational Metadata based Virtual Asset using actual run-time values

```
Starting Job retrieveChecking.
database = JK
schema = JK_BANK2
tablename = BANK_CHECKING
IntermediateDataSetName = dataset01.ds
DSJobController = runLineageLab
```

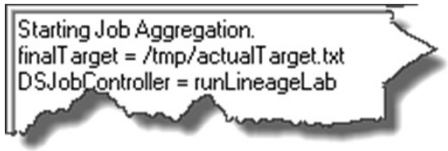


Enhanced Lineage (continued)

- Introducing Virtual Assets (continued)
  - Examples of Virtual Assets (targets)



Operational Metadata based Virtual Asset using actual run-time values



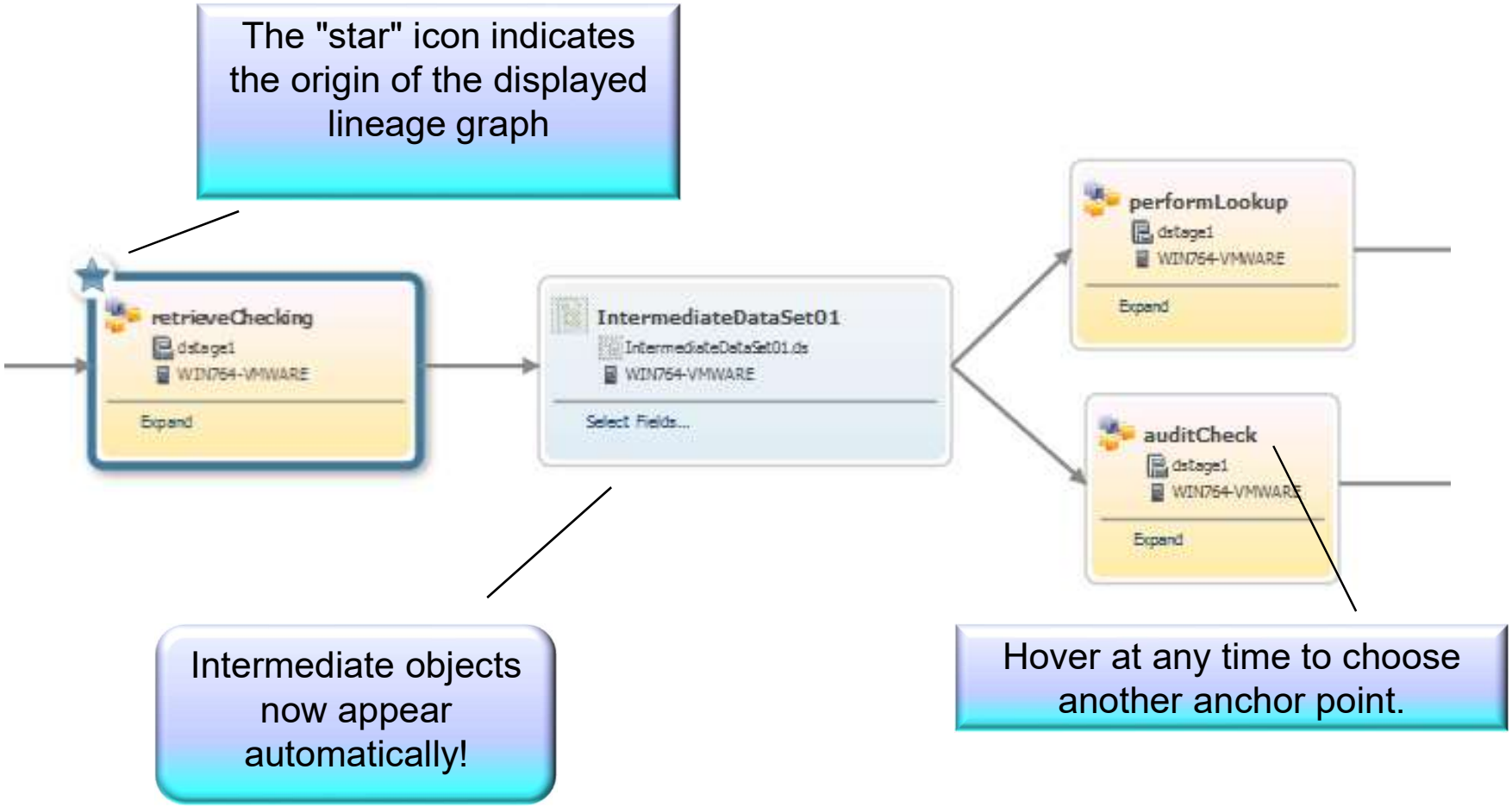
Design based Virtual Asset using Job Parameter that has no default value!

- Virtual Assets are only generated for Stage Types that otherwise support normal "stitching" technology

	Parameter name	Prompt	Type	Default Value
1	finalTarget	finalTarget	String	

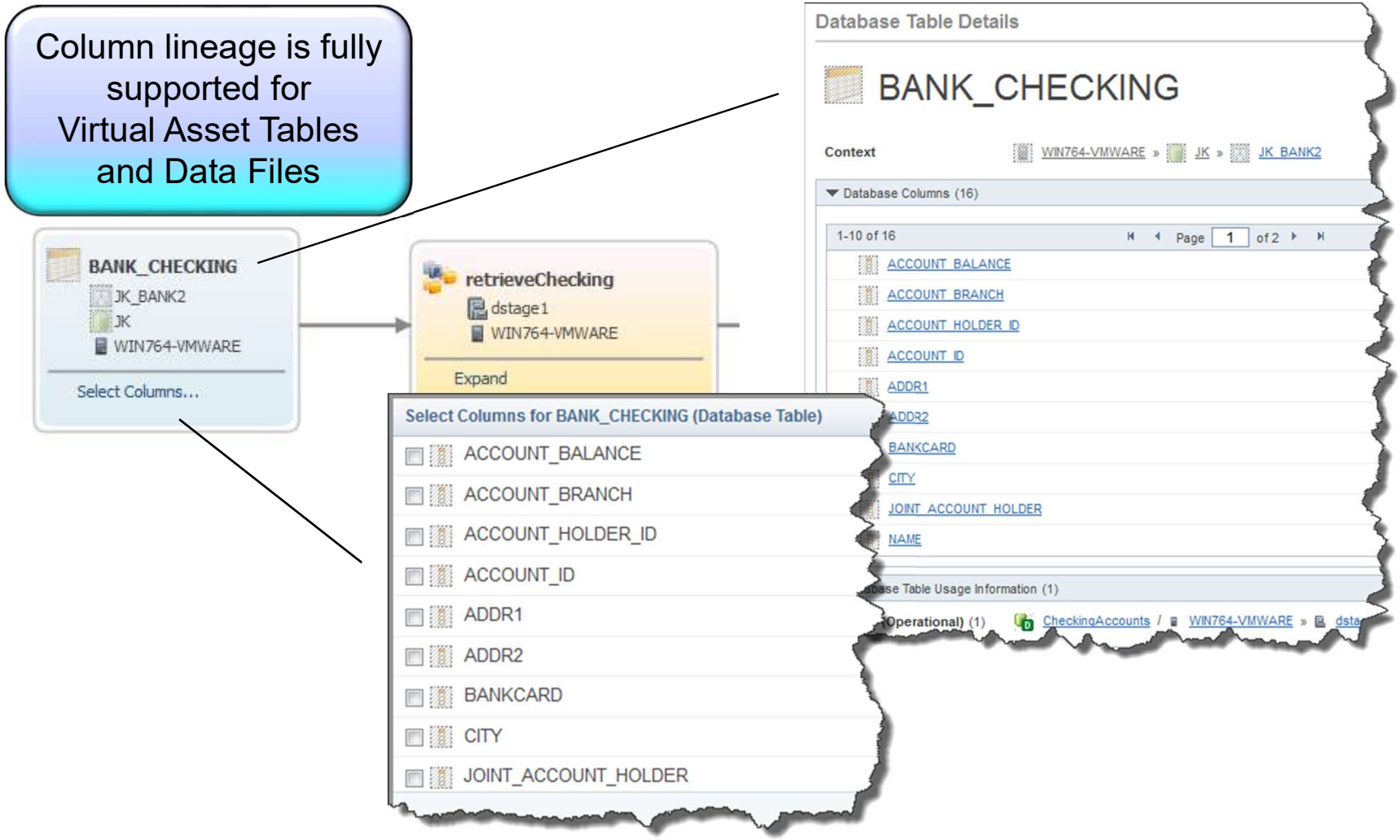
Enhanced Lineage (continued)

- Virtual Assets illustrate intermediate objects between correctly linked Jobs



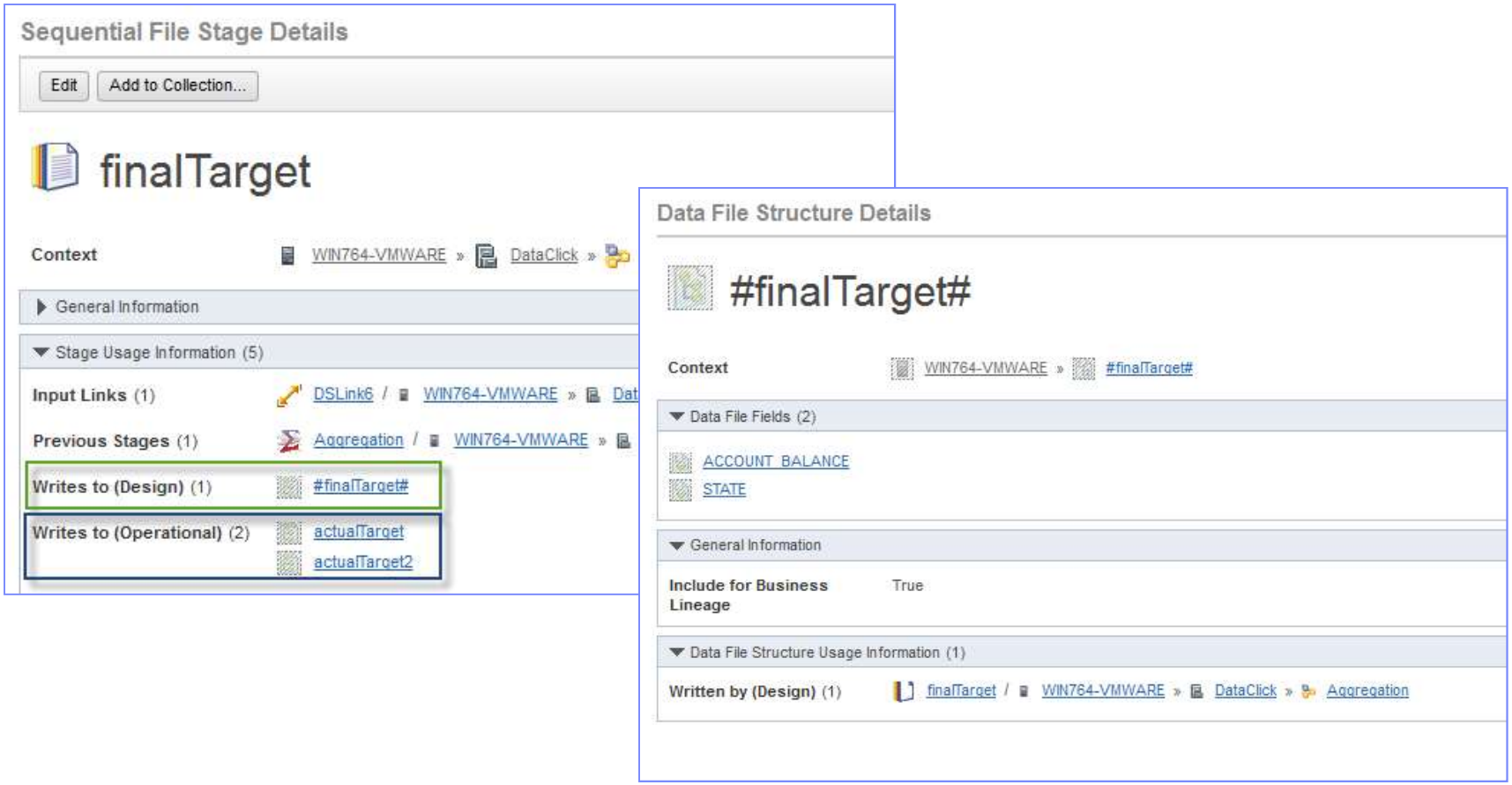
Enhanced Lineage (continued)

- Virtual Assets can be viewed and have columns



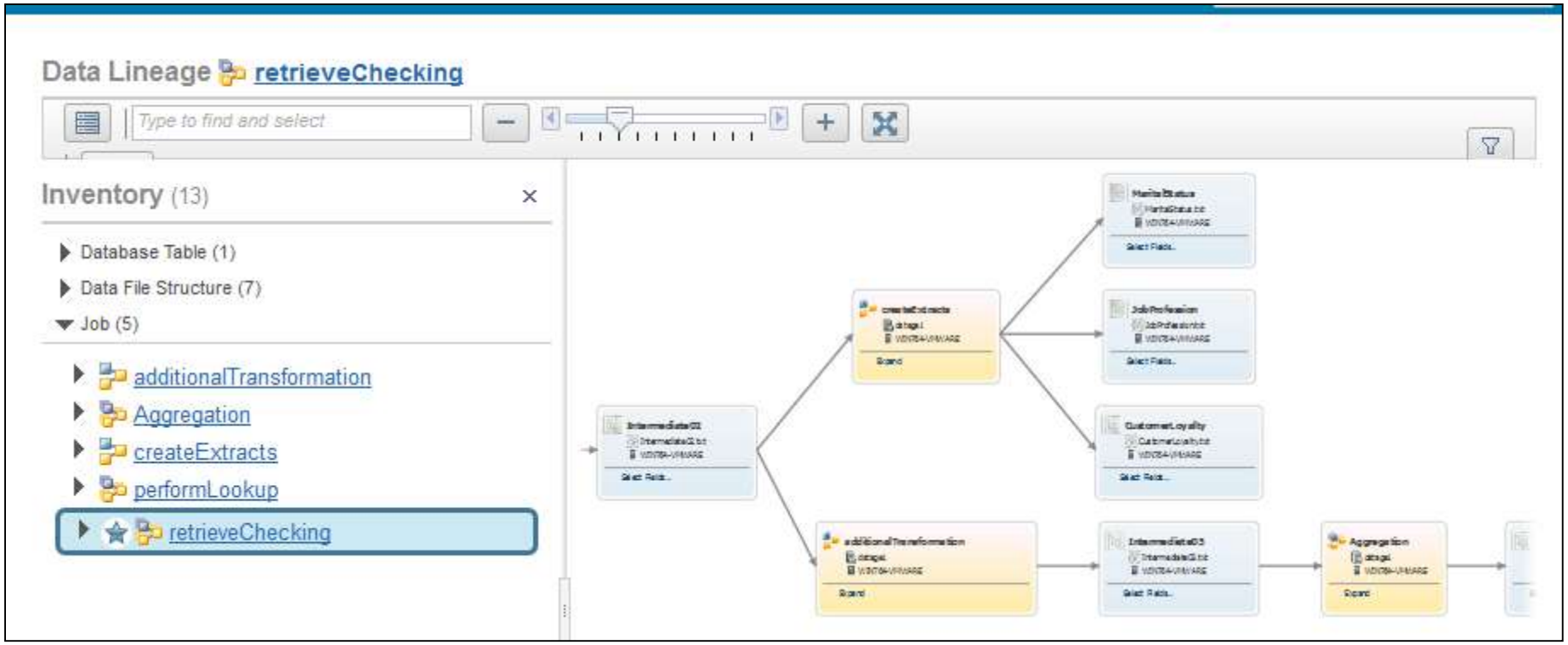
Enhanced Lineage (continued)

- Virtual Assets are referenced from Stage detail pages and also have their own detail page



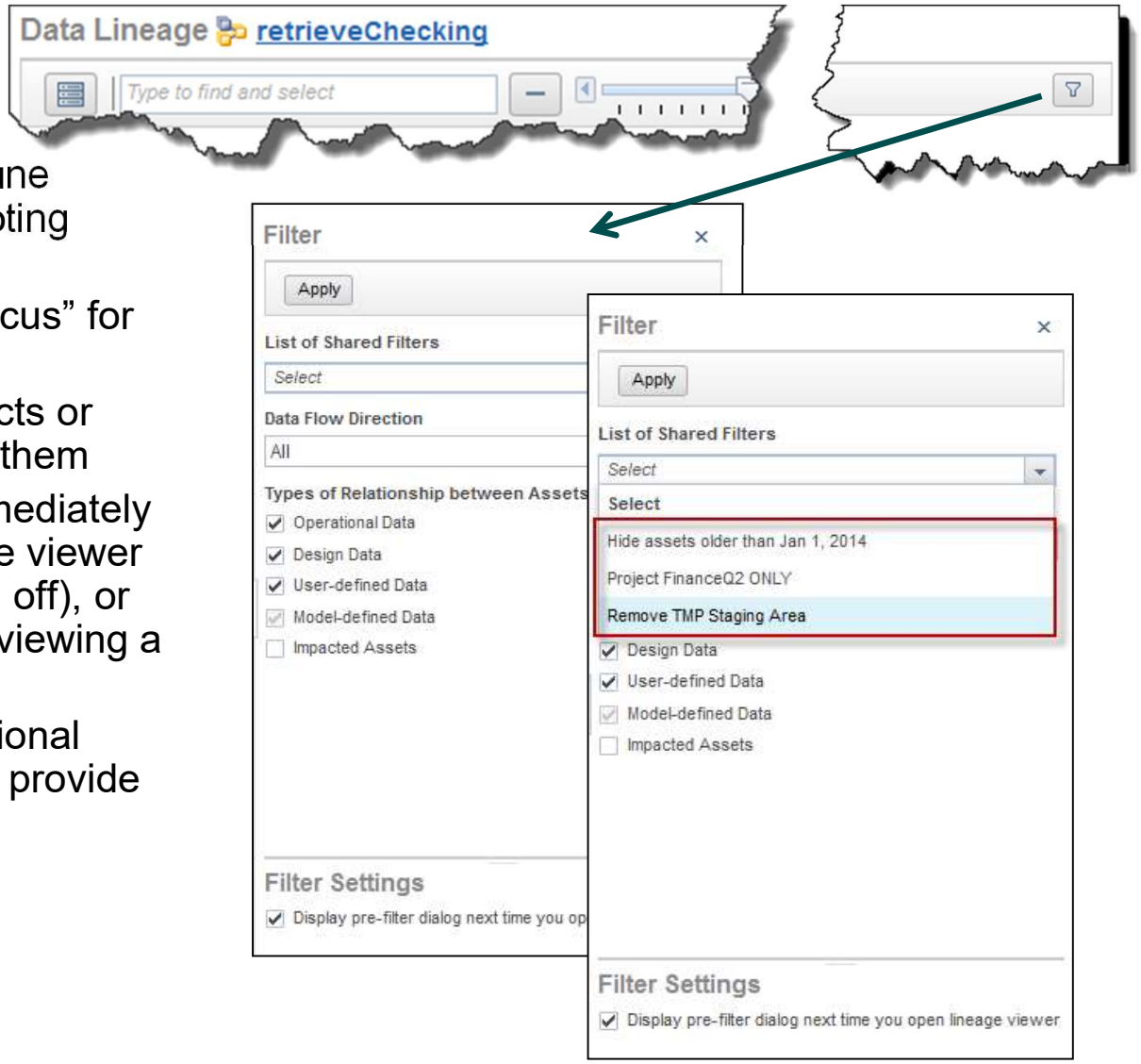
Enhanced Lineage (continued)

- Display for lineage reports



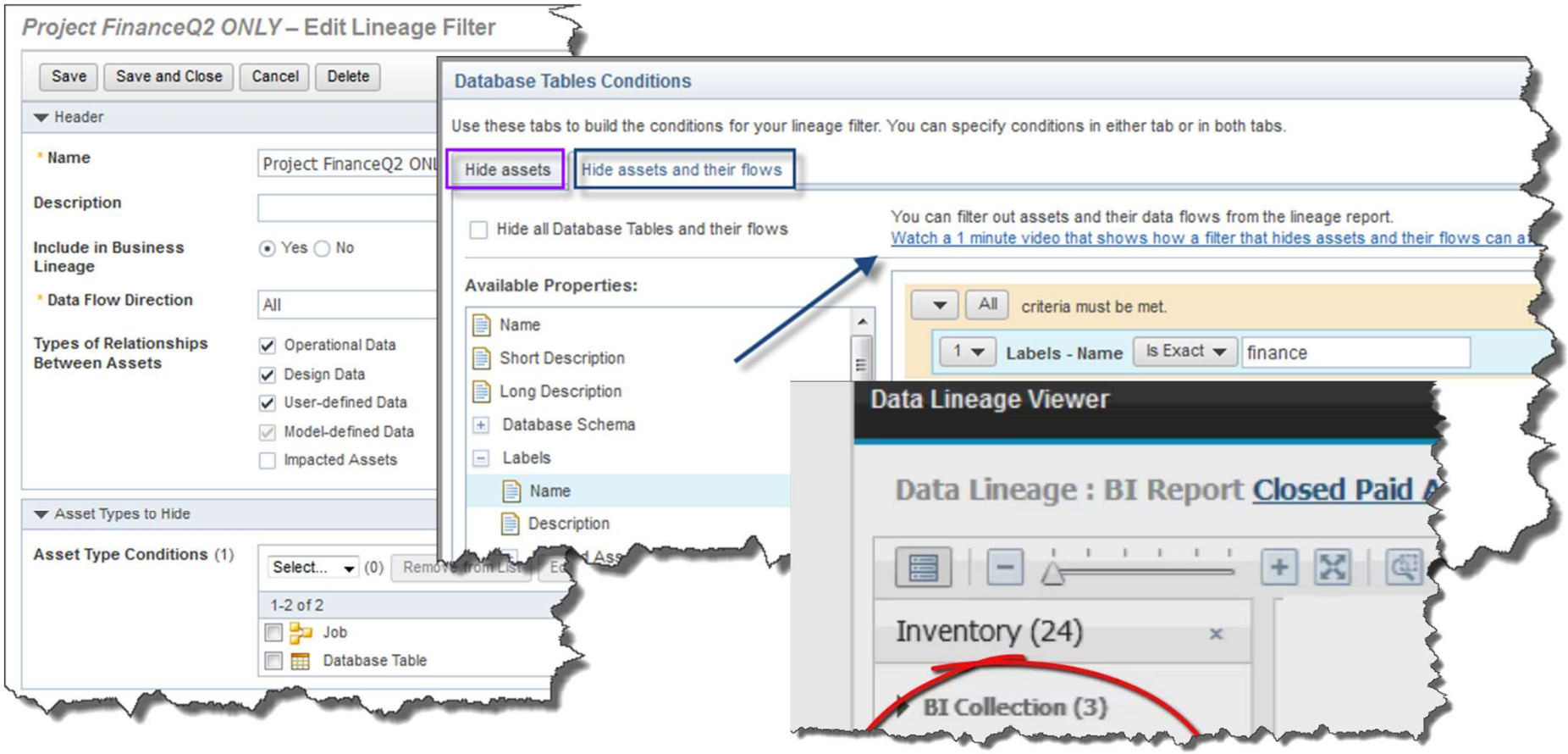
Enhanced Lineage (continued)

- Lineage Filtering
  - Quickly and easily fine tune lineage graphs - like pivoting a spreadsheet
  - Enable more detailed “focus” for lineage graph review
  - Hide only individual objects or everything connected to them
  - Filter dialog appears immediately upon entering the lineage viewer (optionally can be turned off), or can be introduced while viewing a graph
  - 11.3 re-introduces directional filtering and continues to provide relationship selection



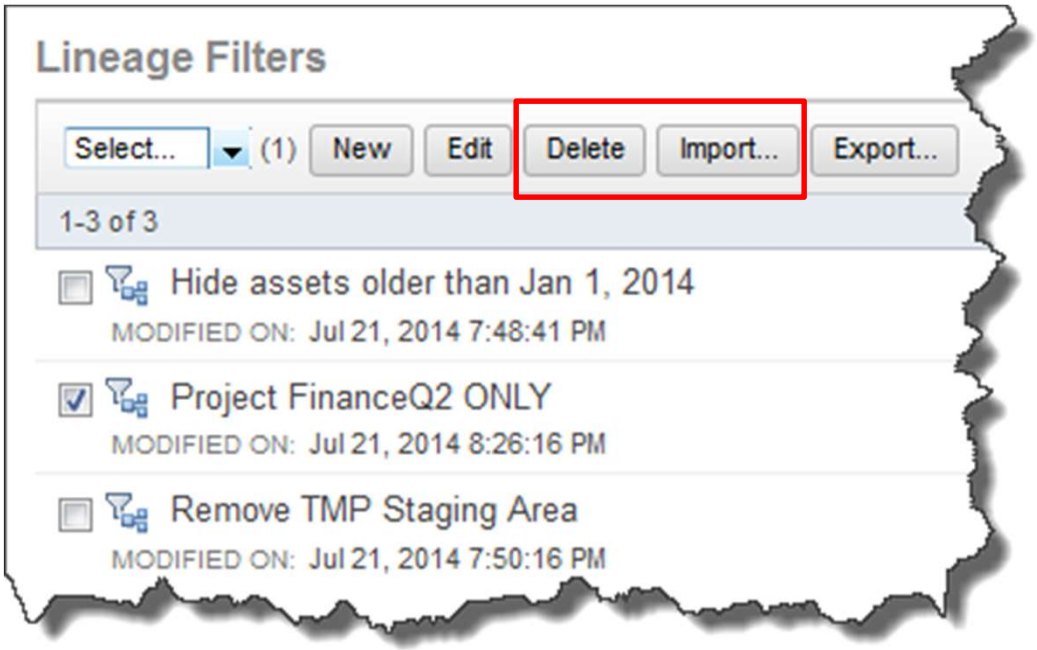
Enhanced Lineage (continued)

- Create Lineage Filters
  - Filters are created by the Administrator and available for all users
  - Utilize the full power of the Query Tool for complex filtering



Enhanced Lineage (continued)

- Organize your Filters
  - Import/Export similar to Information Governance Catalog Queries
  - You can choose names for your filters that clearly identify the objects and/or lineage paths being hidden from view



Enhanced Lineage (continued)

- Using filters