

USA Staffing

USA Staffing Reporting & Analytics

Hiring Data Warehouse - Data Relationships Job Aid

V1 – December 16, 2020 V2 – March 24, 2021 V3 – May 19, 2021 V4 – August 11, 2021 V5 – September 23, 2021 V6 – April 20, 2022

Created by the OPM Federal Staffing Center

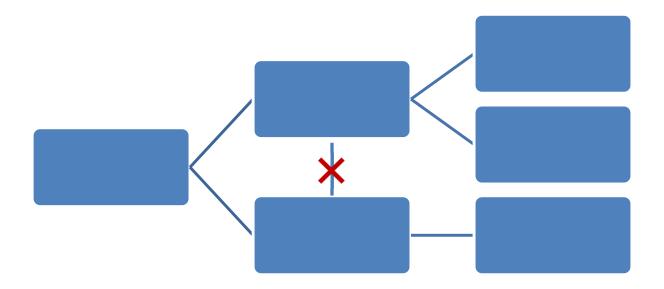
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HDW Goal: Ease of Use for Report Builders

All data contained within the HDW is structured within a single namespace, **however certain query subjects cannot or should not be used together**.

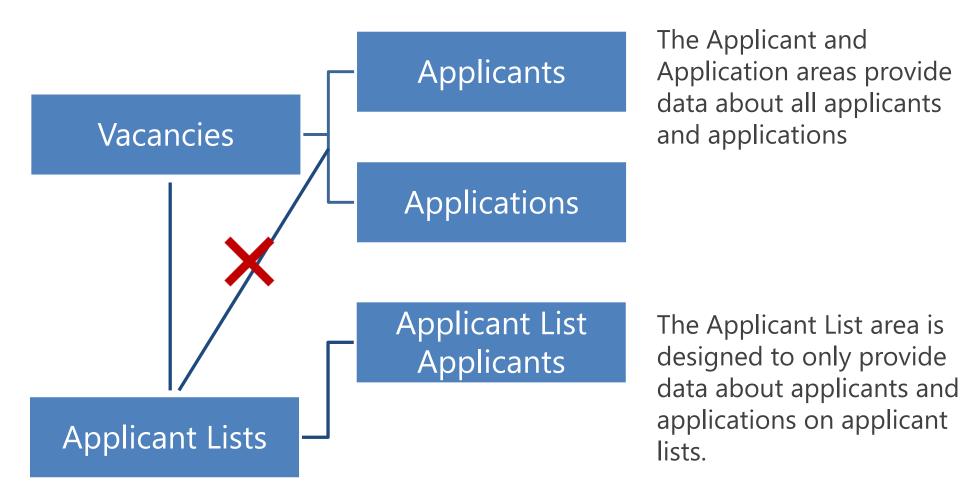
• Due to certain features or flexibilities of the USA Staffing system, it is not always possible to establish relationships between all query subjects.



This job aid will **identify the query subjects that cannot be used in the same report query** and will discuss possible alternatives or solutions should data from these non-compatible query subjects be needed in a single report.



Applicant List + Applicant and Application Query Subjects

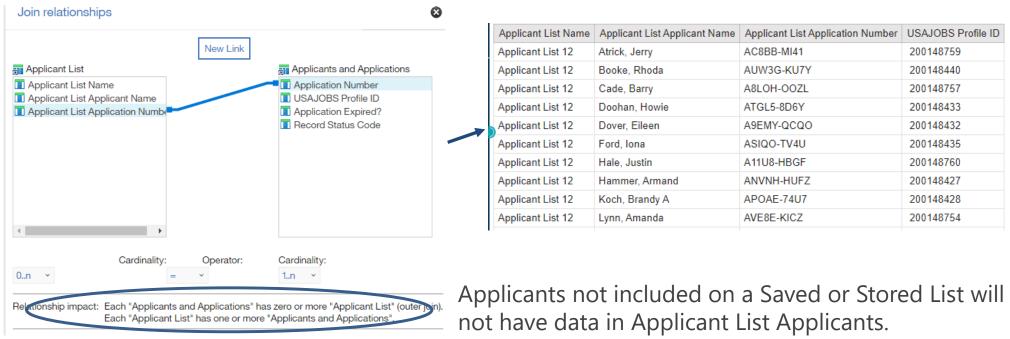


The Applicant List area includes a query subject to provide the name and application number of applicants and applications on Saved and Stored Lists; use these query items instead of data from the Applicant and Application areas.



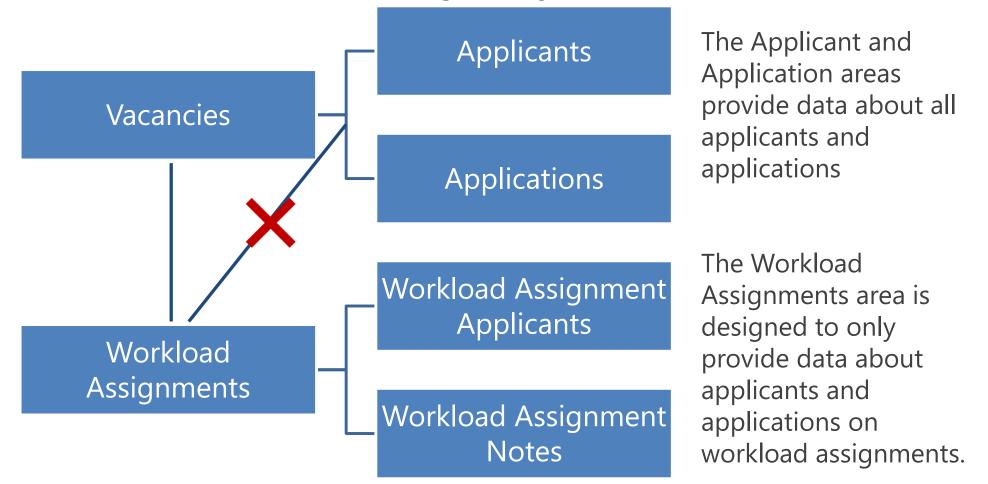
Applicant List + Applicant and Application Query Subjects

- If you need to create a report that includes more data about applicants and applications than is included in the Applicant List Applicants query subject:
 - Create a query with data from the Applicant List area
 - Create a query with data from the Applicants and/or Applications area
 - Join the two queries using a common identifier (e.g., Application Number) and identifying the nature of the relationship between the areas (all applicants in the Applicant List area have Application data; not all Applications have data in the Applicant List area)



Workload Assignments + Applicant and Application Query Subjects

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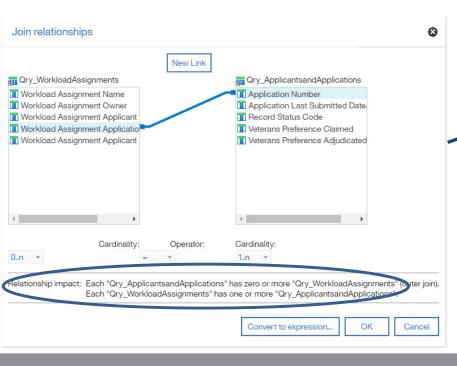


The Workload Assignment area includes a query subject to provide the name and application number of applicants and applications on workload assignments; use these query items instead of data from the Applicant and Application areas.



Workload Assignments + Applicant and Application Query Subjects

- If you need to create a report that includes more data about applicants and applications than is included in the Workload Assignment Applicants query subject:
 - Create a query with data from the Workload Assignment area
 - Create a query with data from the Applicants and/or Applications area
 - Join the two queries using a common identifier (e.g., Application Number) and identifying the nature of the relationship between the areas (all applicants in the Workload Assignment area have Application data; not all Applications have data in the Workload Assignment area)



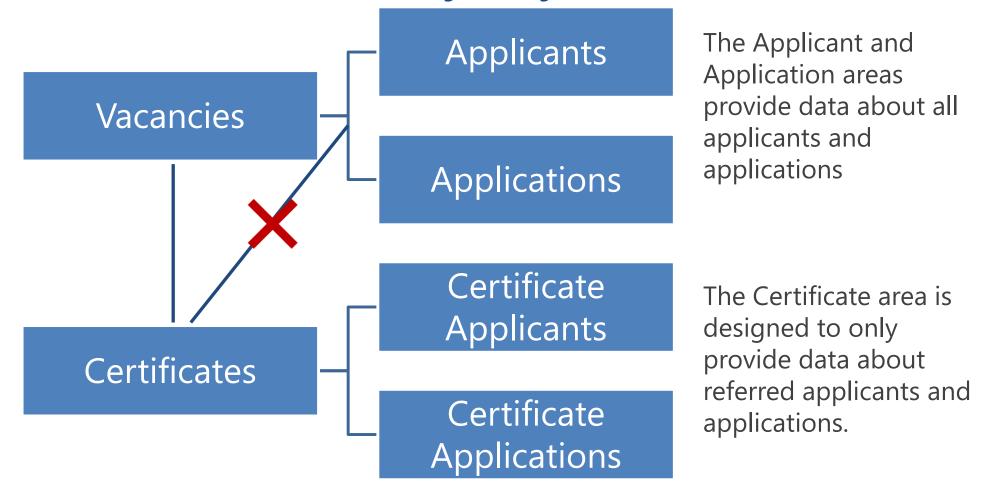
Workload Assignment Name	Workload Assignment Applicant Name	Workload Assignment Application Number	Application Last Submitted Date/Time	Record Status Code
Assignment	Christopher, Helmsworth	A7ELI-Y228	07/17/2017 02:36:57.087 PM	AA
Assignment	Howell, Carl	A4RAQ-2ZZ9	06/08/2017 04:40:57.777 PM	AC
Assignment 1	Alesha, Margarette	ALIW2-HJ6U	09/06/2018 12:03:42.783 PM	AC
Assignment 1	Anderson, Cassie	ANLDD-FSGO	09/06/2018 12:06:45.233 PM	AC
Assignment 1	Benitez, Landin	ADWPW-N3CZ	09/06/2018 12:09:59.260 PM	AC
Assignment 1	Bishop, Krista	ANEGK-3HYF	09/06/2018 12:17:10.523 PM	AC
Assignment 1	Christian, Adelaide	ACXYK-7SDH	09/06/2018 12:08:12.683 PM	AC
Assignment 1	Cisneros, Amelie	ALE52-QLGU	09/06/2018 12:10:37.463 PM	AC
Assignment 1	Cole, Larissa	A2R9I-OE9X	09/06/2018 12:06:11.233 PM	AC
Assignment 1	Cortez, Kenley	APDHT-6BCT	09/06/2018 12:09:07.200 PM	AC
Assignment 1	Damon, Toby	AIFSJ-FJ37	09/06/2018 12:19:51.273 PM	AC

Applicants not included on a Workload Assignment will not have data in Workload Assignment Applicants.



Applicant and Application Query Subjects + Certificate Query Subjects

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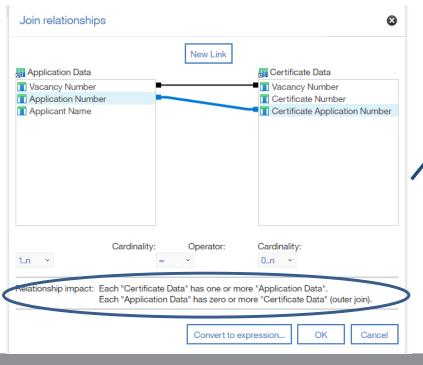


The Certificate area includes query subjects to provide data about referred applicants and applications; use these instead of data from the Applicant and Application areas.



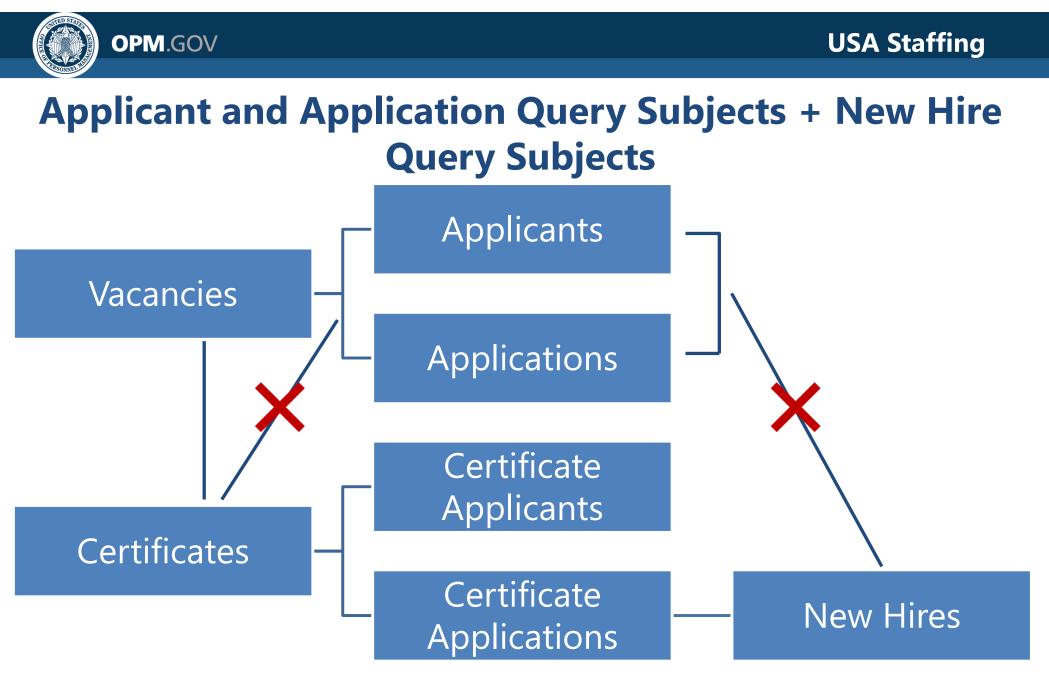
Applicant and Application Query Subjects + Certificate Query Subjects

- If you need to create a report that includes data about all applicants AND referred applicants:
 - Create a query with data from the Applicant and/or Application area
 - Create a query with data from the Certificate area
 - Join the two queries using a common identifier (e.g., Vacancy Number, Applicant ID, Application Number) and identifying the nature of the relationship between the areas (all Certificate Applications have Application data; not all Applications have Certificate data)



	Vacancy Number	Application Number	Applicant Name	Certificate Number	Certificate Application Number
1	10000055	A2OXW-PEYU	Evers, Mary		
	10000055	A3124-8242	Krause, Jonah		
	10000055	A9374-9907	Timmons, Clare		
	10000055	A9632-9301	Glatt, David	20151027-NW-001	A9632-9301
	10000055	AQLT5-SP76	Holmes, Paul	20151027-NW-001	AQLT5-SP76
	10000055	A5280-0949	Pruett, Aria	20151027-NW-001	A5280-0949
	10000055	A9632-9301	Glatt, David	20160825-NW-001	A9632-9301
	10000055	AQLT5-SP76	Holmes, Paul	20160825-NW-001	AQLT5-SP76
	10000055	A5280-0949	Pruett, Aria	20160825-NW-001	A5280-0949

Non-referred applicants/applications will not have an associated Certificate Number or Certificate Application Number.

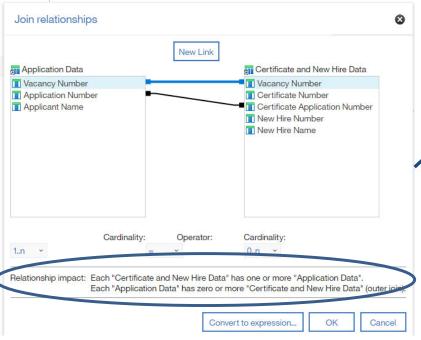


The New Hire area is designed to only provide data about selected applications and **can** be used with data from the Certificate area, so if data about referred applicants/applications is needed, use Certificate Applicants and/or Certificate Applications.



Applicant and Application Query Subjects + New Hire Query Subjects

If data about all applicants/applications is needed, follow the same steps as you would to join the Applicant and/or Application area with the Certificate area, including New Hire data in the same query as Certificate data.

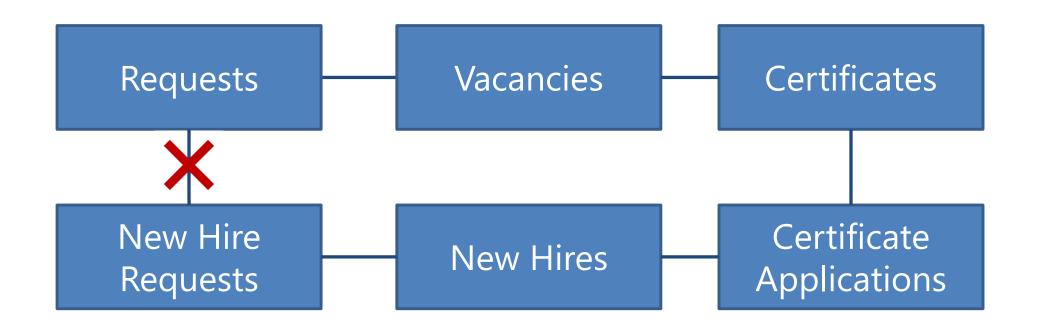


Vacancy Number	Application Number	Applicant Name	Certificate Number	Certificate Application Number	New Hire Number
10000087	ALARB-E3VS	Aarone, Aubrey D	20141107-NW-001	ALARB-E3VS	
10000087	ANIWX-2W2L	Adamsway, Adam	20141107-NW-001	ANIWX-2W2L	
10000087	A3HV8-9J9S	Birdy, Kevin	20141107-NW-001	A3HV8-9J9S	
10000087	AROYE-EBPA	Dayle, Christopher	20141107-NW-001	AROYE-EBPA	
10000087	AOVAL-VYCP	Eastly, Michael	20141107-NW-001	AOVAL-VYCP	
10000087	AD51X-OSLR	Gator, Gaylin	20141107-NW-001	AD51X-OSLR	
10000087	AKFRX-01PV	Mason, Duke	20141107-NW-001	AKFRX-01PV	
10000087	ARIJY-2EHX	Satterly, Jacob	20141107-NW-001	ARIJY-2EHX	
10000087	A9DXE-QGOF	Thornton, Lily	20141107-NW-001	A9DXE-QGOF	
10000087	AICUV-5M4K	Watson, Catilynn	20141107-NW-001	AICUV-5M4K	
10000087	AI4DX-1XG8	Ziglar, Zachary A	20141107-NW-001	AI4DX-1XG8	
10000087	ALARB-E3VS	Aarone, Aubrey D	20150415-NW-001	ALARB-E3VS	HS1KO-LTOL
10000087	A3HV8-9J9S	Birdy, Kevin	20150415-NW-001	A3HV8-9J9S	
10000087	AROYE-EBPA	Dayle, Christopher	20150415-NW-001	AROYE-EBPA	H9D1P-WMSL
10000087	AOVAL-VYCP	Eastly, Michael	20150415-NW-001	AOVAL-VYCP	
10000087	A3HV8-9J9S	Birdy, Kevin	20150423-NW-001	A3HV8-9J9S	HOCL4-CXEF
10000087	ADOVE ERDA	Davlo Christophor	20160423 NIM 001	ADOVE ERDA	

- Non-referred applicants/applications will not have an associated Certificate Number or Certificate Application Number.
- Non-selected applicants/applications will not have a New Hire Number.

Request Query Subjects + New Hire Query Subjects

The query subjects from the Requests and New Hires areas **can be used** together, however **only New Vacancy and Additional Selection request types** will appear, and **only new hires with an assigned request number** will return.



Use the **New Hire Requests query subject** in the New Hires area to include **all request types** as well as **new hires with and without an assigned a request number**.



Request Query Subjects + New Hire Query Subjects

The New Hire Request Information currently only contains the New Hire Request query subject. If additional data is needed about requests (e.g., Request Locations, Request Position Descriptions), a join can be created with the Request area.

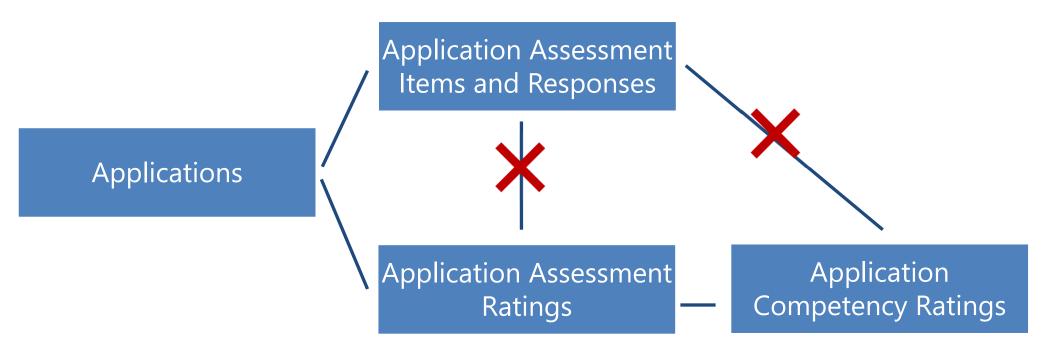
- Create a query with data from the New Hire area (including New Hire Request data)
- Create a query with data from the Request area
- Join the two queries using a common identifier (i.e., Request Number) and identifying the nature of the relationship between the areas (not all Requests have New Hire data; not all New Hires have Request data)





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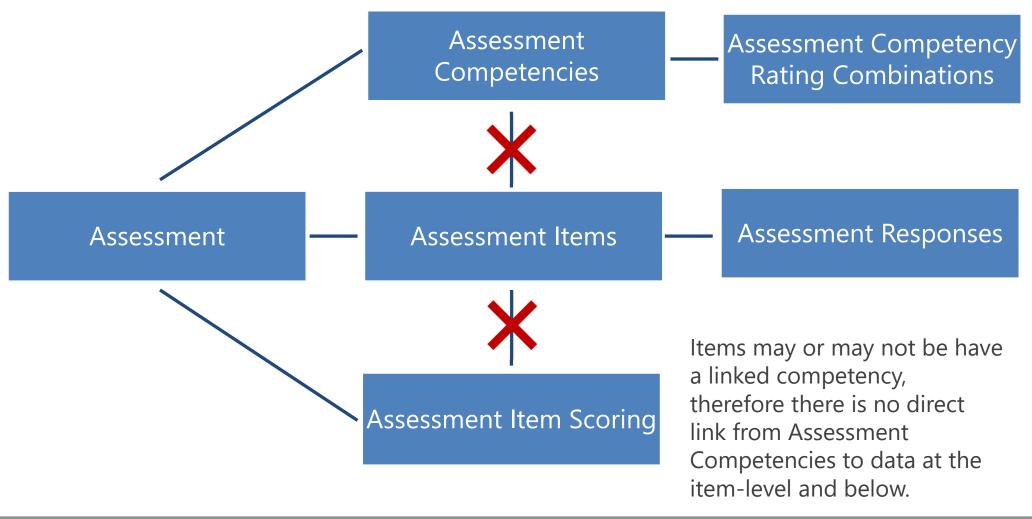
Application Assessment Items and Responses Query Subject + Application Assessment Ratings and Application Competency Ratings Query Subjects



An assessment can be used to evaluate any number of competencies for one or rating combinations, however no matter the competency (or lack thereof) or rating combination, an applicant/application only responds to items on a single occasion (i.e., no variance between rating combinations and/or competencies). For this reason, there is a direct relationship between the Application Assessment Item and Responses query subject and the Application Assessment Ratings and Application Competency Ratings query subjects.



Assessment Competencies Query Subject + Assessment Items, Assessment Responses, and Assessment Item Scoring Query Subjects



Assessment Competencies Query Subject + Assessment Items, Assessment Responses, and Assessment Item Scoring Query Subjects

The Assessment Items, Assessment Responses, and Assessment Item Scoring query subjects do not have direct relationships with Assessment Competencies because items may or may not be linked to a competency.

- The Assessment Items and Assessment Item Scoring query subjects include a query item to identify the linked competency (if it exists)
 - Assessment Items -> Linked Competency
 - Assessment Item Scoring -> Item Linked Competency
 - 🔻 🗁 Assessment Packages
 - 🔻 🗁 Assessment Information
 - Assessment
 - Assessment Competencies
 - Assessment Competency Rating Combinations
 - Assessment Items
 - Assessment Responses
 - Assessment Package Information
 - Assessment Scoring Information
 - Assessment Item Scoring



Assessment Competencies Query Subject + Assessment Items, Assessment Responses, and Assessment Item Scoring Query Subjects

- If you need to create a report that includes more data about competencies than is included in the Assessment Items or Assessment Item Scoring query subjects:
 - Create a query with data from the Assessment Competencies query subject
 - Create a query with data from the Assessment Items or Assessment Item Scoring query subjects
 - Join the two queries using a common identifier (e.g., Competency Title/Linked Competency) and identifying the nature of the relationship between the areas (all competencies in the Assessment Competencies area have titles in the item/item scoring area; not all items have data in the Assessment Competencies area)

Join relationships		8			
New Link		Assessment Item Number		Linked Competency	Assessment Competency Definition
Assessment Competencies	ST Assessment Items	1	Select the one response which best describes your education or experience that meets the Basic Qualification Requirement for the Contract Specialist GS-1102 series.		
Assessment Competency ID Assessment Competency Title Assessment Competency Definit Assessment Competency Type Assessment Competency Sourc	Assessment Item ID Assessment Item Number Assessment Item Text Linked Competency	10	Draft written documentation to support contract actions.	Writing	Recognizes or uses correct English grammar, punctuation, and spelling; communicates information (for example, facts, ideas, or messages) in a succinct and organized manner, produces written information, which may include technical material that is appropriate for the intended audience.
		11	Prepare documents to support the scope of a project.	Writing	Recognizes or uses correct English grammar, punctuation, and spelling; communicates information (for example, facts, ideas, or messages) in a succinct and organized manner, produces written information, which may include technical material that is appropriate for the intended audience.
4		12	Prepare technical reports for review.	Writing	Recognizes or uses correct English grammar, punctuation, and spelling; communicates information (for example, facts, ideas, or messages) in a succinct and organized manner, produces written information, which may include technical material that is appropriate for the intended audience.
Cardinality: Operator:	Cardinality:				
0n ×	1n ×				
Relationship impact: Each "Assessment Items" has zero Each "Assessment Competencies"	or more "Assessment Competencies" (oute has one or more "Assessment Items".	ər join).			
Cor	nvert to expression OK Car	ncel			
					16





Resources and Contacts

IBM Cognos Analytics User Guide

The official IBM user guide for Reporting via Cognos Analytics: https://www.ibm.com/support/knowledgecenter/SSEP7J 11.0.0/com.ibm.swg.ba.cog nos.ug cr rptstd.doc/ug cr rptstd.pdf?view=kc

USA Staffing Resource Center

Under the Reports and Analytics section, you'll find presentations from previous workgroup sessions and other resources:

<u>https://help.usastaffing.gov/ResourceCenter/index.php?title=USA_Staffing_Resource</u> <u>Center</u>

Need Help?

If you are experiencing issues accessing Cognos or need help to create or troubleshoot a report, submit a HelpDesk ticket through USA Staffing. If you are unable to submit a HelpDesk ticket, please contact us at

USAStaffingData@opm.gov