

USA Staffing

Reporting & Analytics

Cognos Report Authors Training

Virtual Training for Advanced Users

Created by the OPM Federal Staffing Center

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Instructor Introductions





Agenda

Day 1

- Overview of USA Staffing Reporting and Analytics
- USA Staffing Data Structure
 - Data Packages
 - Staffing Reports Data Package
- Cognos and Reports Module Refresher
 - List reports
 - Sorting and grouping
 - Filtering
 - Functions and Calculations
 - Aggregation
 - Prompts
 - Copy Report To/From XML
- Brainstorm ideas for Workshop

Day 2

- Advanced Topics
 - In-page Prompts
 - Joins
 - Report Scheduling
 - Subscriptions
 - Visualizations in Reports
 - Drill-through Reports
- Custom Report-Building Workshop
- Open Q&A and Demo



Data to Drive Decisions

USA Staffing is strengthening its reporting and analytics capabilities to **ensure decision makers have easy access to high quality hiring data**



- High quality data that you can trust
- Iterative development to respond quickly to agency needs
- Analytical support and training
- Direct access to data covering the full hiring process for custom reporting
- Interactive dashboarding and visual reports displaying the most important hiring metrics





Navigating to Standard Reports



Direct access to Cognos standard reports in the interface via single sign-on



Recruitment Sources By Vacancy Report

Staffing Organization	Staffing Office	Customer Name	Vacancy Number	Announcement Number	Open Date
ASMG Internal Release Testing	Matt's House	Clash of Clans - Fan Club	10015977	ST-10015977-17-TA	02/17/2017
			10051843	ST-10051843-18-TA	10/12/2017
Infinity Regression	Cleveland Staffing Office	Bourbon Distillery	10015514	DE-10015514-17-IO	02/14/2017
OPM Program	Program Office	Account Management Branch \	10021066	DE-10021066-17-TH	03/05/2017
			10021662	IMP-10021662-17-TH	03/06/2017



Navigating to Standard Reports

Future: Access to certain standard reports directly from the USA Staffing interface via report buttons on select pages.

JSA Staffing Astronomy Accancy 10003083 -	Admin Reports Sear Announcement & AppKent Ov 1953 Job Title Pr 1953 Job Title Pr	ch nview O Certificates & Reviews yPlan Series Cade 5,0865 (-111/2/13) Active:	•	Cin Th.	् 🛛 🗶 caleb Judy (UAT) -ALL	→ (Report Button
Care Fie Position Information Supporting Docum There are applicant outfloations that need to be sent Tasks (4)	ents Eligibilities Settings	Attre		Documents (1 Notes 1 History		
Task Isoue Certificates Notify Applicants Of Referral Notify Applicants Of Referral Disposition Send Textetive Offer for River Song	 Owner Jennifer Demarais Jennifer Demarais Jennifer Demarais Jennifer Demarais 	2 Due - 04/07/2016 04/07/2016 04/25/2016 04/25/2016	ANNO UNIC CALENT OPPENTION DATA ANKET IN CO-MODELLI-LIA CONTROL # 3247940000	3/1/2016 OPENED OPEN A	3/18/2016 CLOSED NROUNCENENT USAJOBS #	R	Reports are
✓ Requests (1) Request Number : 2016/002/3344	Status Selection Made	All Statuses	7 AP	PLICANTS		fi	iltered based on
			4 ECORLE REFERED	2 ELICIPLE NOT REFERRED	1 INELIGINE	β	age content

Examples:

- Applicant List by Vacancy
- Vacancy Overview
- Certificate Overview
- Applicant Overview

Applicant List by Vacancy

Organization Office	Vacancy Number	Applicant Last Name	Applicant First Name	Applicant Middle Name	Applicant Email	Record Status Code
		Applicant	Fantastic		jsciarillo@icloud.com	AC
)		Bluth	George		georgebluthtest@gmail.com	AA
		Bluth	Lucille		lucillebluthtest@gmail.com	AA
		Dan	Doctor		ddan@gmail.com	AA
		Eriksen	Marshall		marshall.eriksen.staffing@gmail.com	AC
		Hanks	Tom		jsciar1+2@gmail.com	AA





Custom Reporting

Ability to **modify existing reports and develop custom reports** based on USA Staffing data models

JSA	Staffing" 🖺 - 🥖	¢ Ç	⊙			New	report" 🗸				ti ⊚	··· 🗘 💄	0
<u>^</u>	Source Data items	¥	Announcement Close Date	Announcement Control Number	Announcement External Contact Name	Announcement Internal Contact Name	Announcement Is Released	Announcement Last Update Date/Time	Announcement Maximum Salary	Announcement Minimum Salary	Announceme Not To Exce	ent Announcement ed Number	Annour Oper
	 Istaffing Reports 	(+)	<announcement Close Date></announcement 	<announcement Control Number></announcement 	<announcement External Contact Name></announcement 	<announcement Internal Contact Name></announcement 	<announcement Is Released></announcement 	<announcement Last Update Date/Time></announcement 	<announcement Maximum Salary></announcement 	<announcement Minimum Salary></announcement 	<announcem Not To Excee</announcem 	ent <announcement d> Number></announcement 	≺Annou Open D
	 Presentation View Applications 	- 1	<announcement Close Date></announcement 	<announcement Control Number></announcement 	<announcement External Contact Name></announcement 	<announcement Internal Contact Name></announcement 	<announcement Is Released></announcement 	<announcement Last Update Date/Time></announcement 	<announcement Maximum Salary></announcement 	<announcement Minimum Salary></announcement 	<announcem Not To Excee</announcem 	ent <announcement d> Number></announcement 	<annou Open D</annou
ì	Announcement Detail	nt Close Date	<announcement Close Date></announcement 	<announcement Control Number></announcement 	<announcement External Contact Name></announcement 	<announcement Internal Contact Name></announcement 	<announcement Is Released></announcement 	<announcement Last Update Date/Time></announcement 	<announcement Maximum Salary></announcement 	<announcement Minimum Salary></announcement 	<announcem Not To Excee</announcem 	ent <announcement d> Number></announcement 	<annou Open D</annou
	Announcemen	nt Control Nu nt External C	₽- 12	× - A ⊞ .	<u>ba</u> - 1 km - 1 E]* •••							
		nt Is Release											
	Announcemer	nt Maximum											
	Announcemer	nt Minimum 8 • nt Not To Exc											
	Announcemer	nt Number nt Open Date											
	Announcemer	nt Part Time											
	Announcemer	nt Released I											
		nt Status											
		nt Total Vaca											
	Announcemen	t Who May											
	Announcement Ag Announcement Lc	ppointment 7											
×	Announcement Quint	uestionnaire -	¢										

Cognos Report Elements:

- List
- Crosstab
- Charts
- Visualizations

Output to:

- PDF
- Excel
- Excel Data
- HTML
- CSV
- XML



Custom Dashboards

All users have the ability to **build and interact with dashboards based on** USA Staffing data





Cognos Reports List

The **Cognos Reports List** provides the location, title, and description for each report a user has access to, including standard reports and custom reports for offices and organizations to which they have permissions.

Cognos Reports List Package Description Path Name Applicant Flow Data Vacancy Application Detail The Vacancy Application Detail Report displays application demographic responses and hiring milestone USA Staffing Packages and Folders > Applicant Flow Data > Applicant Flow Data Analytics > Vacancy Analytics Report data at the application level. Application Detail Report Vacancy Number Summary The Vacancy Application Detail Report displays application demographic responses and hiring milestone USA Staffing Packages and Folders > Applicant Flow Data > Applicant Flow Data Analytics > Vacancy Report data at the application level Number Summary Report Vacancy Office Summary The Vacancy Office Summary Report displays application demographic responses and hiring milestone data USA Staffing Packages and Folders > Applicant Flow Data > Applicant Flow Data Analytics > Vacancy Report summarized by Office Office Summary Report Vacancy Organization The Vacancy Organization Summary Report displays application demographic responses and hiring USA Staffing Packages and Folders > Applicant Flow Data > Applicant Flow Data Analytics > Vacancy Summary Report milestone data summarized by Organization Organization Summary Report Data Dictionary Cognos Package Outline The Cognos Package Outline Report provides a list of all data fields with descriptions and datatype for each USA Staffing Packages and Folders > Cognos Package Outline Report Report Cognos package Interim Upgrade AFD USA Staffing Packages and Folders > Applicant Flow Data > Interim Upgrade AFD > Interim MD-715 A7 Interim MD-715 A7 Report Report Staffing USA Staffing Packages and Folders > Staffing Administration > Cognos Report Author List Administration Cognos Report Author List Lists basic user information for all Report Authors for a given Organization/Office Customer List by Office The Customer List by Office Report displays the list of customers associated with each office. USA Staffing Packages and Folders > Staffing Administration > Customer List by Office Report Report Staffing Analytics USA Staffing Packages and Folders > VA > Office Shared > VA HQ Program Office > Users > All Stage All Stage User Accounts User Accounts

Team Content> USA Staffing Packages and Folders > Cognos Reports List





USA Staffing Data Structure



Overview of Available Packages

Users have access to different data packages for specific analytical needs

Applicant Flow Data Analytics (DW)

- **Demographic information collected from job seekers** and combined with milestones in the hiring process
- Data is near real-time (nightly load) for vacancies that meet certain criteria
- Data is optimized for metrics and aggregate data and trend reporting

Hiring Data Warehouse

- Data sourced from the Recruitment Data Warehouse, currently in the process of being developed
- Data is near real-time (nightly load)
- Data will eventually cover all subject areas

New Hire (End of Day)

- Data sourced from a data warehouse, covering data specific to new hires
- Data is near real-time (nightly load)
- Data intended to supplement or replace the New Hire namespace in the Staffing Reports (Transactional) package



Overview of Available Packages

Users have access to different data packages for specific analytical needs

Staffing Administration

• Real-time data sourced directly from the USA Staffing database covering administrative content

Staffing Analytics (DW)

- Data sourced from the Recruitment Data Warehouse, currently covering User License data
- Data is near real-time (nightly load)
- Data is optimized for metrics and aggregate data and trend reporting

Staffing Reports (Transactional)

- Real-time data sourced directly from the USA Staffing database covering all subject areas
- A Most reports currently based on this package



Data Package Structure

Data packages are separated into distinct namespaces; each namespace is designed to capture all data needed for analysis on a specific topic



- Namespaces divide data into analytical areas to ensure links between data elements are optimized for reporting
- Folders are used to organize query subjects
- New query subjects and items are regularly added to namespaces to ensure users can build reports in one namespace at a time
- Query items from more than one namespace cannot be added to the same report object
- If data from more than one namespace is needed in a report, the individual queries must be joined



Cognos Package Outline Report

The Cognos Package Outline report provides the location, description, and data type for each data item in the each data package available in Cognos

Cognos Package Outline Report

Model Name	Namespace	Folder	Query Subject	Query Item	Description	Data Type
Staffing Reports	Applications	Announcement Detail	Announcement	Announcement Close Date	The calendar date that an announcement is closed.	date
				Announcement Control Number	The USAJOBS provided control number.	int64
				Announcement External Contact Name	The first and last name, email address and phone number of the point of contact responsible for answering questions about the announcement outside the organization.angular Snip	characterLength16
				Announcement Internal Contact Name	The first and last name, email address and phone number of the point of contact responsible for answering questions about the announcement inside the organization.	characterLength16
				Announcement Is Released	Flag indicating if the Announcement is currently released.	characterLength16
				Announcement Last Update Date/Time	The timestamp of the last time the announcement was modified.	dateTime
				Announcement Maximum Salary	Maximum salary associated with the position being posted to USAJOBS.	decimal
				Announcement Minimum Salary	Minimum salary associated with the position being posted to USAJOBS.	decimal
				Announcement Not To Exceed	Description of the appointment type, superficially the special duration.	characterLength16
				Announcement Number	Identification number assigned to the job announcement by the TAS (also known as Requisition Number for some vendors).	characterLength16

Team Content> USA Staffing Packages and Folders > **Cognos Package Outline Report**





Staffing Reports Data Package



Overview of the Staffing Process

USA Staffing is the U.S. Office of Personnel Management's talent acquisition system; it is organized around the staffing process





Applications

Data related to **applications** as well as the **development of requests**, **vacancies**, **and announcements**

Key Query Items:

- Request Number
- Vacancy Number
- Announcement Number
- Applicant ID
- Application Number
- Assessment ID

When to use this Namespace

- Creating Lists of Applicants, Applications, Requests, Vacancies, Announcements
- Analyzing data related to all applications, including responses to assessment items

Data Relationships

One Request may be related to more than one Vacancy

One Vacancy may be related to more than one Request

One Vacancy = One Announcement

One Applicant may be related to more than one Vacancy, Announcement, and/or Application

One Application = One Vacancy



Assessment Competency Networks

Data on **the content of competency networks** (the structure of competencies and associated assessment items used in assessments for particular positions)



- Competency ID
- Item ID

When to use this Namespace

 Reporting on the content of Competency Networks (not usage)

Namespace is designed to support administrative content management

Data Relationships

One Competency Network may be related to more than one Competency and/or Item

One **Competency** may be related to more than one **Competency Network**

One **Competency** may be related to more than one **Item**

One Item = One Competency



Assessment Package Templates

Data on **the content of assessment package templates** (assessment packages that are shared and re-used across an organization)



- Assessment ID
- Competency ID
- Item ID

When to use this Namespace

 Reporting on the content of Assessment Package Templates (not usage)

Namespace is designed to support administrative content management

Data Relationships

One Assessment Package Template may be related to more than one Assessment

One Assessment may be related to more than one Competency and/or Item

One **Competency** may be related to more than one **Assessment** and/or **Item**

One Item = One Competency



Assessment Packages

Data related to the **content and use of assessment packages** (a package of

one or more assessments)

• Key Query Items:

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- Request Number
- Vacancy Number
- Assessment ID
- Competency ID
- Item ID



- Reporting on assessment content (not applicant responses)
- Tracking the frequency of use of assessment packages or content

Data Relationships

For a Vacancy, an Assessment Template is assigned or a new Assessment Package is developed

Assessment Template

Assessment package that is shared across offices and frequently re-used

Assessment Package

Identifies the assessment(s) to be used in the selection process





Certificates

Data related to **referred applications** and the **use and development of certificates/ranking lists**

Y Key Query Items:

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- Request Number
- Vacancy Number
- Announcement Number
- Certificate Number
- Applicant ID
- Application Number
- Assessment ID
- Selectee Request Number

When to use this Namespace

- Tracking the creation, issuance, review, and audit of certificates/ranking lists
- Analyzing data related to referred or selected applicants (does not include individuals who do not make it to the referral stage)

Data Relationships

One **Request** may be related to more than one **Certificate**

One Vacancy = One Announcement

One Vacancy may be related to more than one Assessment and/or Certificate

One Certificate may be related to more than one Request

One Applicant may be related to more than one Vacancy, Announcement, Certificate, and/or Application

One Application = One Vacancy



New Hires

Data related to the **onboarding process**, including New Hires and the transmission of forms and documents

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Key Query Items:

- Request Number
- Vacancy Number
- Applicant ID
- Application Number
- New Hire Number

When to use this Namespace

- Reporting on selected applications during the onboarding process and actual new hires
- Tracking the completion and transmission of onboarding forms and documents

Data Relationships

One Request = One New Hire

One New Hire = One Vacancy, Applicant, and/or Application Number



Production Statistics

Data to facilitate reporting on **common production statistics** by week, month, quarter, and/or year.



- Reporting on high level production statistics over time, including counts of:
 - Announcements Opened
 - Applications Submitted
 - Certificates Issued
 - Selections Made
 - Entries on Duty







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Data related to the **communication between HR and hiring managers** on assessment and announcement content and the certificate review/selection process



- Request Number
- Vacancy Number



• Tracking the overall Review process

Data Relationships

One Request and/or Vacancy can have multiple Reviews

One Review may have multiple Reviewers and/or Review Assignments





Data related to tags used in USA Staffing to **grant permissions to content** and to **describe vacancies**, including mission critical occupation and appointing authority tags



• Reporting on system and custom tags used/developed by agencies

Namespace is designed to support administrative content management







Tasks

Data related to the **completion of tasks** throughout the staffing and onboarding process



- Request Number
- Vacancy Number
- Task ID

When to use this Namespace

- Reporting on the completion of tasks
- Reporting on Time to Hire metrics

Data Relationships

One Task ID = One Request and/or Vacancy

One Request and/or Vacancy may have more than one Task



- Use Task Type when comparing results across Organizations and/or Offices
- Task Actual Days to Complete is the number of days between Task Activation Date and Task Completion Date
- Task Days to Complete is the number of days the task was/is expected to take, as set up when creating the task and/or workflow







Data related to incomplete applications

Y Key Query Items:

- Vacancy Number
- Announcement Number



Reporting on incomplete
 applications







Workflows

Data related to the development of workflows and tasks

When to use this Namespace

• Reporting on the development of Workflows (not usage)

Namespace is designed to support administrative content management





Cognos and Reports Module Refresher





Accessing Cognos





Navigating the Welcome Page

The Welcome Page allows users to **navigate and search for reporting content**





Running an Existing Report



Running Reports Live vs. In the Background

Users can run reports live or set a report to run in the background and receive a notification when the report has completed.

Live Reports

- Run immediately
- Allow a single output format to be selected for each run
- Allow a single report to be run at a time

Background Reports

- Can be run immediately or scheduled to run at a certain time
- Allow multiple output formats to be selected for each run
- Creates a queue of reports to be run; reports may run simultaneously

◯ Excel	Click the toggle to run a
C Excel Data	report in the
	background
ITML	
○csv	
○ XML	
✓ Prompt me	







Running a Report in the Background





Running a Report in the Background





Creating a New Report


USA Staffing



Creating a New Report







Creating a New Report







Navigating the Report Module







Saving a Report

Report Authors can save custom reports for future use in My Content or Team Content.







List Reports

A report that displays data as a series of columns; the most commonly used report type



Drag data items from the Source pane and drop them into the list object to populate the report or double-click Columns can be reordered, sorted, formatted, and grouped



Sorting and Grouping





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Sorting and Grouping

Grouping **eliminates duplicates within a column** and instead displays the data item value one time for each possible value.

Groupir List reports ca grouped by o more colum	ng an be ne or ans	Announcement Status	Announcement Number A <annoi th="" ∑-<="" ╤↓-="" ╦-=""><th>Announcement Open Date</th></annoi>	Announcement Open Date	
Indicates Gro Column	ouped is	<announcement status=""></announcement>	<announcement <ar<br="">Number> Dat</announcement>	nnouncement Open <ar e> Dat</ar 	
A	Annen	A	Assessment Oliver Date	Assessment Is Deleges I	
Announcement Status	Announcement Number	Announcement Open Date	Announcement Close Date	Announcement is Released	
Closed	DE-10000068-14-TA	09/03/2014	10/31/2014	Yes	
	Announcement 10000148	09/10/2014	10/21/2014	Yes	
	DE-10000006-14-TH	09/17/2014	10/31/2014	Yes	
	DE-10000011-14-TH	09/17/2014	10/31/2014	Yes	
	DEST-10000002-14-TH	09/17/2014	11/28/2014	Yes	
	DEST-10000007-14-TH	09/17/2014	10/31/2014	Yes	
	DE-10000004-14-TA	09/18/2014	01/31/2015	Yes	
	DEST-10000014-14-TH	09/18/2014	10/31/2014	Yes	
	DEST-10000017-14-TH	09/19/2014	10/31/2014	Yes	
	DEST-10000018-14-TH	09/19/2014	10/31/2014	Yes	

Grouping formatting will appear in all report output formats, with the exception of Excel Data.





Filtering

Filters reduce data returned in the report based on specific criteria;

includes a data item, operator, and criteria

Vacancy Number

=

1000001

Data Item

Operator

Criteria

Vacancy Staffing Office Name	Vacancy Number	Vacancy Description	Vacancy USAJOBS Job Title		Filter condition	on - Vacancy Nu Comparison R	imber ange		(9	_					
<		Al	A /					 Keep these values Exclude these values 			U	SAS	Staffing®	- ~		• ~ 🖒
Vacancy Staffing Office	ער יער ד↓	,× ∑× ☷		\rightarrow	Find 10000001		0,	10000001	Θ	-	→ 🛆		Vacancy Staffing Office Name	Vacancy Number	Vacancy Description	Vacancy USAJOBS Job Title
Name>	Excl	Exclude Null			10000002						0	Pł	niladelphia ervices Branch	10000001	GS- 0011/0201- 5/7/9	HR Expert
Staffing Office	Crea	ate Custom Fil	JOBS ter Title>		0 Selected		•									
Name>	Edit	Edit Filters			Can be char	nged in the viewer sing values (NULL)										
	Inse	rt Filter Text			 Apply to ind Prompt for vi 	ividual values in the o alues when report is	data source run in viewer		OK Cancel							

Always check active filters prior to running a report to ensure the correct filters are applied





Advanced Filtering

Report Authors can use custom expressions to develop more advanced filters



USA Staffing



Functions and Calculations

Functions and calculations **transform and/or create** new data items using logic or mathematical functions

Add a Query Calculation Data item expression - Data Item1 Ø PINNED T Text item Name: Announcement Open Days Block **Data Item** 🗹 🚍 🚍 🔸 🗎 🏛 🗶 Available Components: Table **Expression** Expression Definition: E List _days_between([Applications].[Announcement]. Crosstab Use a variety of [Announcement Close Date], [Applications]. [Announcement]. Announcement Minimum Salary Visualization expressions to transform [Announcement Open Date]) Announcement Not To Exceed and develop new data TEXTUAL Announcement Number items T Text item Announcement Open Date Query calculation Announcement Part Time Hours (i) Information: [E] Layout calculation Announcement Promotion Potentia **Information Pane** days between (date_expression1 , date_expression2) <T> Rich text item Announcement Released Date/Tim Returns a positive or negative number representing the number of days betwe Help text that provides & Hyperlink Announcement Salary Type "date_expression1" and "date_expression2". If "date_expression1" < "date expression2", then the result will be a negative number information on how to Date Announcement Status Example: _days_between (2002-04-30 , 2002-06-21) √ Time build expressions 52 Page number Tips Errors Row number S As-of-time expression OK Cancel Source Data Items **Functions** 🗆 | A 🖄 Σ- 🗄 **Develop** expressions Data items in the Listing of available functions based on data items in to utilize for data expressions query Shortcut: Highlight two column the data model headers, click Insert Calculation and choose "Days Between ... "

For the Vendor Specific Functions available for the USA Staffing Upgrade, view SQL Server functions





Aggregation

Aggregation summarizes data within a data item at the lowest level of detail in the report

Available Aggregate Functions



Aggregated at the Office Level

Vacancy Staffing Office Name	Announcement Open Days
OPM HR Boyers	10.50
OPM HR TRB	5.50

Aggregated at the Announcement Level

Vacancy Staffing Office Name	Vacancy Number	Vacancy Description	Vacancy USAJOBS Job Title	Vacancy USAJOBS Display Type	Announcement Number	Announcement Open Date	Announcement Close Date	Announcement Open Days
OPM HR Boyers	10000842	GS-4742-11	Hello Kitty	DE	DE-10000842- 16-TA	12/02/2015	12/16/2015	14
	10003550	GS-0301-9	Night's Watchman	DE	DE-10003550- 16-STG	08/08/2016	08/15/2016	7
OPM HR TRB	10018524	GM-0007-6	Howdy Doody	IMP	Test Customer- 17-10018524	08/09/2017	08/09/2017	0
	10019637	GS-0201-11	HR Specialist	DE, ST, IMP	17-10019637- DESTIMP	09/18/2017	09/18/2017	0
	10002093	GS-0201-9	Human Resource Specialist	DE	DE-10002093- 16-TA	03/17/2016	03/31/2016	14
	10011162	GS-0343- 9/11	Program Analyst	DE, ST	TC-17-10011162- DEST	03/23/2017	03/31/2017	8



Aggregation

The default aggregation is set when the data is modeled; **Report Authors** can change the aggregation method in the Properties pane

	Vacancy Staffing Office Name	Vacancy Number	Vacancy Description	Vacancy USAJOBS Job	Vacancy USAJOBS Display	Announcement Number	Announcement Open Date	Announcement Close Date	Announcement Open Days
Click on the	VacancyStaffing OfficeName>	<vacancy Number></vacancy 	<vacancy Description></vacancy 	<vacancy USAJOBS Job Title></vacancy 	<pre><vacancy display="" type="" usajobs=""></vacancy></pre>	<announcement Number></announcement 	<announcement Open Date></announcement 	<announcement Close Date></announcement 	<announcement Open Days></announcement
Column Body	<vacancy staffing<br="">Office Name></vacancy>	<vacancy Number></vacancy 	<vacancy Description></vacancy 	<vacancy USAJOBS Job Title></vacancy 	<vacancy USAJOBS Display Type></vacancy 	<announcement Number></announcement 	<announcement Open Date></announcement 	<announcement Close Date></announcement 	<announcement Open Days></announcement

Click on the Properties Icon

Modify the Aggregation Properties

Announcement Open Days	Ann	List column body							
		Horizontal alignment							
<announcement< td=""><td><anr< td=""><td>Vertical alignment</td><td></td></anr<></td></announcement<>	<anr< td=""><td>Vertical alignment</td><td></td></anr<>	Vertical alignment							
Open Days>	Statu	White space	White space						
		Spacing & breaking							
		Direction & justification							
<announcement Open Days></announcement 	<anr Statu</anr 	POSITIONING							
		Size & overflow							
		DATA ITEM							
		Туре	Data Item						
	-	Name	Announcement Open [
		Label							
		Expression	_days_between ([Ann.						
		Detail aggregation	Average						
	7	Summary aggregation	Average						
		Solve order							

Aggregate functions can also be applied as new Query Expressions



Parameterized Filters

Parameterized Filters allow report users to **easily filter reports** using standard filters and criteria **specific for a single run** of the report **without modifying the report**

The user is prompted to provide information to use in the parameterized filter





Prompt Page Options

Users can create prompt pages to provide more structure and customization to parameterized filters, including the order in which prompts are presented, dependencies between parameterized filters, and alphabetization of listed options. Users can select from a variety of prompt types.



Dec 20, 2016		
12:00 AM		
Dec 20, 2016	- m.	

Date Prompt

Insert 🌩	
♦ Remove	

Text Box Prompt Users directly enter the filter criteria



Prompt Page Design

Users can design a prompt page or develop custom parameterized filters

Custom Parameterized Filter

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The user writes Filter Expressions and Prompts are available on a basic page



Prompt Page Design

The Cognos wizard drives the process of creating prompts

US	A Staffing" 💾 🖌 🖉	5 0	igodol	Announcement List Report_Aggregation
≏	Find	, L	Prompt pages	
	Report			4
\nearrow	PAGES	$(\mathbf{+})$		
	 Care Pages Page1 Prompt pages Prompt page1 Olasses 			

- Click on the Pages Icon
- Click on the Prompt Pages Folder and Click the Plus Button to add a Prompt Page
- Click on Prompt Page 1 to start creating prompts



PROMPTING On a prompt E Text box prompt PINNED Value prompt Text Θ page, select a T Text item Select & search prompt Block Table to serve Date & time prompt Table Date prompt as the List 38 Time prompt \rightarrow container for Crosstab OK Cancel 🛒 Interval prompt 🚆 Tree prompt Visualization Instructions Generated prompt and Tools Drag over a Text Item into Prompt button the table create parameter **Drag a Value Prompt** instructions into a table cell Prompt Wizard - Value prompt ۲ Prompt Wizard - Value prompt Ø Prompt Wizard - Value prompt Ø Choose Parameter Create Filter Populate control Create a new parameter or use an existing parameter from a previously Choose the package item that will be used to filter the report. What values do you want to pick from? Use values are the retrieved data, and authored expression. Display values are the selectable values that the user sees. Create a new parameter Create a parameterized filter Create new query Office Package item: [Applications].[Vacancy].[Vacancy : arvOffice Name: Use existing parameter Operator Values to use: [Applications].[Vacancy].[Vacancy : ---Parameter: Office Values to display: [Applications].[Vacancy].[Vacancy : Use global parameter Make the filter optional Cascading source: Next > Finish Cancel Cance < Back Next > Finish < Back Finish Cancel Next >

Create a Parameter

Create a new parameter or use an existing one. This is what the user will use to filter the report

Create the Filter

Select the data item to be used for the filter. The "In" operator allows for multi-select; the "=" operator is single-select

Decide what data to display

Name the new query the same as the parameter; "Values to use" is the data used to filter; "Values to display" is what the user will select from

USA Staffing



Copy Report To/From XML

Cognos allows users to **save report specifications in XML** format and **reconstitute the report in another location** (e.g., Stage, Production, another office) using the XML specifications.

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Advanced Topics

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In-page Prompts

Users can build **prompts in the report** so that users can **re-prompt reports in HTML output**

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~	Please select a Customer N	ame: Please selec	t an Announcement Status:										
Ч	Customer A	~ Closed	~										
O,	Next												
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2	Customer A	1000002	DEST-1000002-14-TH	09/17/2014	11/28/2014	Closed							
(Customer A	10000004	DE-1000004-14-TA	09/18/2014	01/31/2015	Closed							
<u>.</u>	Customer A	10000023	DE-10000023-14-TA	03/01/2016	03/31/2016	Closed							
	Customer A	10000035	Onboarding9921	09/19/2014	09/23/2014	Closed							
$\boldsymbol{\checkmark}$	Customer A	10000053	US-Demo	09/24/2014	09/30/2014	Closed							
	Customer A	10000064	US Demo JOA1	09/25/2014	09/30/2014	Closed							
	Customer A	10000067	ST-10000067-14-BKC	09/26/2014	10/31/2014	Closed							
	Customer A	10000068	DE-10000068-14-TA	09/03/2014	10/31/2014	Closed							
	Customer A	10000070	ST-10000070-14-BKC	09/29/2014	10/31/2014	Closed							
	Customer A	10000072	DESTIMP-10000072-14-TH	09/30/2014	10/10/2014	Closed							
	Customer A	10000075	ST-10000075-14-BKC	09/30/2014	10/31/2014	Closed							
	Customer A	1000087	DEIMP-10000087-15-TH	10/01/2014	10/31/2014	Closed							
	Customer A	10000115	DEST-10000115-15-ST	10/14/2014	10/31/2014	Closed							

- In-page prompts can be used in conjunction with Prompt Pages
- In-page prompts only work when running HTML output



- 1. Click on the *New* Icon (+ button) in the bottom left corner of the Welcome screen. Select *Report*
- 2. Select a Blank Template. Click OK
- 3. In the Source pane, click on the Add Report Data Icon (+ button). Select USA Staffing Packages and Folders, Staffing Reports. Click Open
- 4. In the Report presentation area, click on the + button icon. Select *List*. Click OK in the Object and Query Name box.
- 5. In the Source pane, expand *Presentation View, Applications* Namespace, *Announcement Detail* Folder, *Announcement* Query Subject
- 6. Drag (or double-click) the following Query Items into the List object:
 - Announcement Number A
 - Announcement Close Date
 - Announcement Open Date
- Announcement Status
- 7. Click on the Toolbox Icon, then drag and drop a table into the report page, above the List object. Specify that the table should contain 3 columns and 2 rows.



- 8. In the Source pane, *Applications* Namespace, expand *Vacancy Detail* Folder, *Vacancy* Query Subject. Drag (or double-click) the *Vacancy Number* Query Item into the List object
- 9. In the Source pane, *Applications* Namespace, *Vacancy Detail* Folder, expand the *Vacancy Customers* Query Subject. Drag (or double-click) the *Vacancy Customer Name* Query Item into the List object
- 10. Add prompt instructions in the top row of the table by clicking on the *Toolbox* then dragging and dropping *Text items* into the top cell of the first two columns. Text in the 1st column should read **Please select a Customer Name**. Text in the 2nd column should read **Please select an Announcement Status.**
- 11. From the *Toolbox*, drag and drop a *Value prompt* into the cell beneath the instructions for the Vacancy Customer prompt. Use the *Prompt Wizard* to create the in-page prompt for *Vacancy Customer Name*.
 - Create a new parameter = Customer Name
 - Create a parameterized filter
 - Package item = Applications → Vacancy Detail → Vacancy Customers → Vacancy Customer Name
 - Operator = in
 - Make the filter optional = checked/yes
 - Create a new query = yes; name = Customer Name



- 12. From the *Toolbox*, drag and drop a *Value prompt* into the cell beneath the instructions for the Announcement Status prompt. Use the *Prompt Wizard* to create the in-page prompt for *Announcement Status*.
 - Create a new parameter = Announcement Status
 - Create a parameterized filter
 - Package item = Applications → Announcement Detail → Announcement → Announcement Status
 - Operator = in
 - Make the filter optional = checked/yes
 - Apply filter = Query1
 - Create a new query = yes; name = Announcement Status
- 13. From the *Toolbox*, drag and drop a *Prompt button* into the bottom cell of the third column of the in-page prompt table
- 14. With the newly created *Prompt button* selected, click the *Show properties* button in the top right of the page. Change the *Type* of the *Prompt button* to *Reprompt*.



- 13. Click the *Run Options* Icon. Select *Run HTML* to view the report. Select one or more of the options for Office Name and a range of dates for Announcement Open Date Range. Click OK.
- 14. On the report output page, the prompts are populated with the available options. Make selections in each prompt, then click *Reprompt* to update the report output.
- 15. Close the Cognos Viewer browser window to return to your report. Save the report in My Content as *Announcement Status Report_In-page Prompts* and close the report.



Steps 1 - 10

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- LAYOUT
- DATA CONTAINER
- PROMPTING
- ADVANCED



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Steps 11 - 12

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USA Staffing® 🖹 - 🧷 $\mathbf{\hat{\mathbf{A}}}$ lacksquare÷ 2 New report * ∨ Δ ? \odot Ŧ (+)Please select a Customer Name: Please select an Announcement Status: ₹8 Ο, Find . | A ⊞ 🌭 × | 🖽 ∗ | ···· Ď PINNED N T Text item Next > Block III Table E List Π Crosstab **** ***** **** ***** Visualization Vacancy Customer Name Vacancy Number Announcement Number Announcement Ope Date Announcement Close Date Announcement Status TEXTUAL <Vacancy <Announcement <Announcer <Vacancy Customer nt Open <Announcement Close <Announcement Number> Number> Date> Name> Date> Status> LAYOUT <Vacancy Customer <Vacancy <Announcement Announcement Open <Announcement Close <Announcement Name> Number> Number> Date> Date> Status> DATA CONTAINER <Announcer <Vacancy Customer <Vacancy <Announcement Open <Announcement Close <Announcement Number> Numbe Date> Status> Name> Date> PROMPTING E Text box prompt 📼 Value prompt Select & search prompt Date & time prompt Date prompt SS Time prompt 🛒 Interval prompt 🔚 Tree prompt + Generated prompt Prompt button

Step 13



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Step 14

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Steps 15 - 17





Joins

A join **defines the relationship** between two queries that contain **information from different database tables** and enables data to be **combined into one dataset**



In a query, the **Request Number Key** can be used to **Join** the Requests and New Hire Tables.

Inner Join – Will only return data when Request Number exists in

both tables

Left Outer Join – Will return all Request data even if matching Request Number doesn't exist in the New Hire table As a result of the Join, data items from both tables can be combined into one dataset



Create a new report that uses a join to combine data from the Certificates and New Hires namespaces

- 1. Click on the *New* Icon (+ button) in the bottom left corner of the Welcome screen. Select *Report*
- 2. Select a Blank Template. Click OK
- 3. In the Source pane, click on the *Add Report Data* Icon (+ button). Select USA Staffing Packages and Folders, Staffing Reports. Click Open
- 4. Click on the *Queries* icon, click the *Queries* folder, then click the + icon to create *Query1*. Right-click on *Query1*, select *Rename query*, and rename the query as **CertificatesData**.
- 5. Double-click on the *CertificatesData* to view the query, then click the *Source* icon. Expand the *Presentation View, Certificates* Namespace. Double-click or drag and drop the following query items into the list of *Data Items* in the query.

Folder	Query Subject	Query Item			
	Cortificato	Certificate Number			
Certificate Detail	Certificate	Certificate Issue Date			
	Certificate Applications	Certificate Application Number			

6. Click on the *Queries* icon, click the *Queries* folder, then click the + icon to create a new *Query1*. Right-click on *Query1*, select *Rename query*, and rename the query as **NewHiresData**.



Create a new report that uses a join to combine data from the Certificates and New Hires namespaces

7. Double-click on the *NewHiresData* to view the query, then click the *Source* icon. Expand the *Presentation View, New Hires* Namespace. Double-click or drag and drop the following query items into the list of *Data Items* in the query.

Folder	Query Subject	Query Item		
		New Hire Application Number		
		New Hire Name		
New Hire Detail	New Hire	New Hire Number		
		New Hire Position Title		
		New Hire Series		

- 8. Click on the *Queries* icon, click the *Queries* folder, then click on the *Toolbox* icon. Drag and drop a *Join* below the two existing queries.
- 9. In the dotted boxes that appear with the *Join*, drag and drop the *CertificatesData* and *NewHiresData* queries.
- 10. Double-click on the *Join* (two yellow boxes connected by a black line) to define the relationship between the *CertificatesData* and *NewHiresData* queries.



Create a new report that uses a join to combine data from the Certificates and New Hires namespaces

- 11. Click New Link, then click on Certificate Application Number in the CertificatesData query and New Hire Application Number in the NewHiresData query. Ensure there is a line connecting the two data items in the separate queries.
- 12. Define the *Cardinality* and *Operator* of the *Join*. The *Relationship impact* is described below the *Cardinaity* and *Operator*. Ensure the relationship is as follows, then click OK
 - Each "NewHiresData" has one or more "CertificatesData". •
 - Each "CertificatesData" has zero or more "NewHiresData" (outer join).
- 13. Right-click on Query1 (the new query on the left side of the join), select Rename query, and rename the query **CertificatesNewHiresData**. Once renamed, double click the query to open it.
- 14. Click the Source icon. Now, instead of the Staffing Reports data model, the two queries that are being joined are shown as the data source. From the list of available data items, drag and drop (or double-click) the following data items to add them to the CertificatesNewHiresData query:
 - Certificate Number

- New Hire Number New Hire Series

Certificate Issue Date

- New Hire Name
- New Hire Position Title

Certificate Application Number



Create a new report that uses a join to combine data from the Certificates and New Hires namespaces

- 15. Click the Pages icon, then click Page1 to view the report page. From the Toolbox, add a List to the report page. Name the list List1 and select the CertificatesNewHiresData query as the Query Name. Click OK
- 16. Click on the *Source* icon, then click on *Data items* to view the data items in the available queries. From the **CertificatesNewHiresData** query, drag and drop (or double-click) the following data items into the *List*.
 - Certificate Number
 - Certificate Issue Date

- New Hire Name
- New Hire Series
- Certificate Application Number New Hire Position Title
- New Hire Number
- 17. Sort the report by *Certificate Number* (ascending).
- 18. Click the Run Options Icon. Select Run HTML to view the report
- 20. Close the Cognos Viewer browser window to return to your report. Save the report in My Content as *Certificates with New Hire Data_Join*



Steps 1 - 5









Steps 8 - 9




Steps 10 - 13















Steps 16 - 17

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Steps 18 - 20

USA	A Staffing"		○ ● ✓ ⊑			New report	~
~	Certificate Number	Certificate Issue Date	Certificate Application Number	New Hire Number	New Hire Name	New Hire Series	New Hire Position Title
	20140621-NW-001	06/21/2014	A5362-6098				
0	20140621-NW-001	06/21/2014	A0198-5005				
~	20140625-WB-001	06/25/2014	A9481-2520				
	20140625-WB-001	06/25/2014	A5273-8460	HK3Z9-ZOGA	May, Lilly	1810	Background Investigator
	20140625-WB-002	06/25/2014	A4X1Y-N9CO				
	20140625-WB-003	06/25/2014	A4X1Y-N9CO				
	20140625-WB-003	06/25/2014	A1321-5162				
\mathbf{x}	20140625-WB-003	06/25/2014	A5674-6175				
	20140703-NW-001	07/03/2014	A0198-5005				
	20140703-NW-001	07/03/2014	A5362-6098				
	20140703-NW-001	07/03/2014	A4716-3682				
	20140708-WA-001	07/08/2014	A9534-1247	H9I7Z-XPAV	Rabbiton, Alice	0343	Program Analyst
	20140708-WA-001	07/08/2014	A9534-1247	HD3J6-9DZG	Rabbiton, Alice	0343	Program Analyst
	20140708-WA-002	07/08/2014	A4341-3650				
	20140708-WA-002	07/08/2014	A3385-5955	H9D7S-CLE1	Montara, Lola	0201	HR Specialist
	20140708-WA-002	07/08/2014	A8933-7881				
	20140708-WA-003	07/08/2014	A4954-1683	HHDWO-Z7KU	Brewster, Malcom	0201	HR Specialist
	20140708-WA-003	07/08/2014	A4698-0994				
	20140708-WA-004	07/08/2014	A8391-5813				
	20140708-WA-004	07/08/2014	A5106-3051				



Report Schedules

Cognos allows users to schedule custom reports to run at specified intervals



A report can only have one schedule, and only custom reports can be scheduled. If multiple schedules are needed or users want to schedule a standard report, create a report view and set up a schedule for the report view.



Report Schedules

Cognos allows users to schedule custom reports to run at specified intervals







Report Schedules

Cognos allows users to schedule custom reports to run at specified intervals







Report Subscriptions

Cognos allows users to **subscribe to any report** to have report **output delivered** at specified intervals

C	ognos Reports List 🗸 🗸	⊽ … ♀
		Subscribe
	Path	When do you want to receive this report?
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ing	USA Staffing Packages and Folders > Appl Report	
g	USA Staffing Packages and Folders > Appl Report	Time ③ 3:13 PM
nd	USA Staffing Packages and Folders > Appl Summary Report	Format ATML
	USA Staffing Packages and Folders > Cogr	romat 🖸
	USA Staffing Packages and Folders > Appl Board > Interim AFD MD715 Detail Report	Delivery Save >
	USA Staffing Packages and Folders > Appl	Prompts 4 schedule prompt volume
	USA Staffing Packages and Folders > Appl Humanities Office > Interim Upgrade AFD E	4 schedule prompt values
	USA Staffing Packages and Folders > Appl Investment Board > Interim Upgrade AFD D	Create Cancel
	USA Staffing Packages and Folders > Appl	

- Report subscriptions save report output in your My Content
- Users first have to run the report before subscribing; Cognos saves the parameter values
- After a report is scheduled, users are notified each time the report is run

The use of Subscriptions is recommended rather than Scheduling as it provides greater flexibility and minimizes the potential that report output will be saved over the report itself.





Report Subscriptions

Cognos allows users to **subscribe to any report** to have report **output delivered** at specified intervals

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	Share		
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address and phone number of the point of contact responent inside the organization.	characterLengt	th16	
ement is currently released.		characterLengt	th16
e the announcement was modified.		dateTime	

- To subscribe to a report, first run the report.
- If the report has prompts the prompt values you select will be remembered in your subscription and used every time the report is run.
- From the report output click on the ellipsis, then click on Subscribe.



Report Subscriptions



- A menu pops up allowing you to pick which day(s) of the week to run the report and what time to run it.
- If you choose Format you can pick one or more report output format(s)
- If you choose Delivery you can choose how to receive the report results
- Prompts will allow you to view the prompt values the report will run with, but you can't change them.



Report Subscriptions

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Notifications				
A new version of the report? Package Outline Report? Scott Salvati 04/17/2018	ort 'My (is availa	Cognos able.		



- You will receive a notification in Cognos when the report you subscribed to runs.
- Click on the bell icon to see the notification
- Subscribed reports are stored in a hidden "Subscriptions" folder in My Content
 - To display the hidden folder, click on the user icon, select My Preferences, and check the Show hidden entries option





Scott Salvati

My schedules and subscriptions

Report Subscriptions

- To manage subscriptions, click on My schedules and subscriptions from the User icon
- Users can view Upcoming, Current, and Past subscriptions







Visualizations in Reports

Similar to the Dashboard feature, **users can build reports with visualizations** to display summary data alongside detailed data



Unlike Dashboards, reports using visualizations can be exported into PDF, Excel, and other formats. Reports can also more easily drill-through from summary to detail reports.



Create a new report that includes visualizations to display the number of announcements posted by month and type

- 1. Click on the *New* Icon (+ button) in the bottom left corner of the Welcome screen. Select *Report*
- 2. Select a 2 over 1 Template. Click OK
- 3. In the Source pane, click on the Add report data icon (+ button). Select USA Staffing Packages and Folders, Staffing Reports. Click Open
- 4. Click on the *Queries* icon and add a new query (+ button). Right-click on the newly created query and select *Rename query*. Rename the query **qry_visuals**



Create a new report that includes visualizations to display the number of announcements posted by month and type

5. Double-click the query to open it, then click the Source icon. From the *Applications* namespace, drag and drop (or double-click the following query items into the query:

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Folder	Query Subject	Query Item		
		Vacancy Number		
		Vacancy USAJOBS Display Type		
Vacanay Dotail	Vacancy	Vacancy USAJOBS Job Title		
Vacancy Detail		Vacancy Staffing Office Name		
		Vacancy Staffing Organization Name		
	Vacancy Counts	Vacancy Total Applications		
Announcoment Detail	Announcomont	Announcement Number		
Announcement Delall		Announcement Open Date		



Create a new report that includes visualizations to display the number of announcements posted by month and type

- 6. Identify the query items that will be used as metrics and change the aggregation properties appropriately. For this exercise, *Announcement Number* will be used as a metric.
 - Click on Announcement Number, then click on Show properties. Change the Detail aggregation and Summary aggregation to Count distinct.
 - Change the *Label* of *Announcement Number* to *Announcement Count*.
- 7. Create filters and modify query items to prepare to build visualizations.
 - Announcement Open Date
 - Double-click on Announcement Open Date
 - Modify the *Expression Definition* to:
 - month([Applications].[Announcement].[Announcement Open Date])
 - Modify the Name to: Announcement Open Date Month
 - Announcement Is Released
 - From the Source pane, drag and drop Announcement Is Released into Detail Filters
 - In the *Expression Definition*, modify the text to read:

[Applications].[Announcement].[Announcement Is Released] = 'Yes'





Create a new report that includes visualizations to display the number of announcements posted by month and type

- 8. Click on the *Pages* icon and select *Page1* to navigate to the report page. Click the *Source* icon and select *Data items* to view the data items in the *qry_visuals* query
- 9. In the upper left area of the report page, click the + icon and select *Visualization*. Select the *Clustered column* visualization and click OK
- 10. In the Object and query names window, select the qry_visuals query and click OK
- 11. Add data items to the visualization by dragging and dropping *Announcement Number* to the *Values* section of the visualization and *Announcement Open Date Month* to the *X axis* section of the visualization.
- 12. Click on the *Page views* icon and select *Page preview* to view the visualization populated with data
- 13. In the upper right area of the report page, click the + icon and select *Visualization*. Select the *Pie* visualization and click OK
- 14. In the Object and query names window, select the qry_visuals query and click OK



Create a new report that includes visualizations to display the number of announcements posted by month and type

- 15. Add data items to the visualization by dragging and dropping *Announcement Number* to the *Values* section of the visualization and *Vacancy USAJOBS Display Type* to the *Categories* section of the visualization.
- 16. Modify the size of the visualizations to fit the page. One at a time, select the visualization and click *Show properties*. Change the *Height* to 250
- 17. On the bottom of the report page, click the + icon and select *List*. In the *Object and query names* window, select the *qry_visuals* query and click OK
- 18. Add all of the data items from the *qry_visuals* query to the *List*, with the exception of *Announcement Number* and *Announcement Close Date*.
- 19. Click the *Run Options* Icon. Select *Run HTML* to view the report
- 20. Close the Cognos Viewer browser window to return to your report. Save the report in My Content as *Report with Visualizations*



Steps 1 - 3



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Steps 4 - 5



USA Staffing

Exercise 11: Create a Report with Visualizations

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Δ 9 New report * ∨ ţ \odot (?) ••• Jata Item 🔼 Data Items Detail Filters DATA ITEM Vacancy Number Type Data Item Vacancy USAJOBS Display Type Vacancy USAJOBS Job Title Name Announcement Number Vacancy Staffing Office Name Label Announcement Count Vacancy Staffing Organization Nam [Applications].[Announcem... Expression Vacancy Total Applications Detail aggregation Count distinct Announcement Number Announcement Open Date Summary aggregation Count distinct Announcement Close Date 😪 Summary Filters Pre-sort Don't sort Automatic Detail Calculation intersection Show value Solve order Slicer Label Specifies the label of the object.

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Step 7

	🔻 🗁 Announcement Detail	
	 Announcement 	
	Announcement Close Date	
	Announcement Control Number	
	III Announcement External Contact Nar	
Data item expression - Announcement Open Date Month	Announcement Internal Contact Nam	
	III Announcement Is Released	
Name Announcement Open Date Month	Announcement Last Update Date/Tir	
Available Components:	Announcement Maximum Salary	
Expression Definition.	Anna and Minimum Onlaws	
month([Applications].[Announcement].[Announcement]	Detail filter expression - qry_visuals	8
Presentation View	Available Components:	
4	Expression Definition:	
③ Information:		[].[Announcement Is Released]
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		OK Cancel
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USA Staffing



Steps 8 - 9





Steps 10 - 12







Exercise 11: Create a Report with Visualizations

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Steps 13 - 14





Steps 15



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Steps 19 - 20





Drill-through Reports

Two **reports can be linked** via a drill-through definition; when users click on a value in a report, that value can be passed to a second report as a parameter

Source Report

Vacancy Number	Announcement Number	Announcement Open Date	Announcement Close Date	Announcement Status	Vacancy Mission Critical Occupation
10017058	OHQ-10017058-17-DF-USAHIR-M	02/24/2017	02/27/2017	Closed	Program/Project Management
10035299	ST-10035299-17-LM	05/17/2017	05/18/2017	Closed	Cyber Security
10042509	DE-10042509-17-LJD	07/12/2017	07/13/2017	Closed	STEM
10037514	DEMO POINTS	05/30/2017	05/31/2017	Closed	Cyber Security
10041105	DE-10041105-17-MC	06/23/2017	06/22/2018	Open	STEM
10042505	DE-10042505-17-JLA	07/12/2017	07/13/2017	Closed	STEM
10041104	ST-10041104-17-MC	06/23/2017	06/22/2018	Open	STEM
10042497	DE-10042497-17-BR	07/12/2017	07/13/2017	Closed	STEM

Target Report

Drill-through functionality only works in HTML output

Vacancy Number	Application Number	Applicant Name	Application Record Status Code
10042497	AI457-2IEP	Hamilton, Alex	HH
	A8W6Q-ZULS	Burr, Aaron	AA
	AP152-5GFB	Wash, George	AA
	A4MYA-4ZDQ	Schyler, Liz	UN
	Vacancy Number 10042497	Vacancy Number Application Number 10042497 Al457-2IEP A8W6Q-ZULS AP152-5GFB A4MYA-4ZDQ	Vacancy Number Application Number Applicant Name 10042497 Al457-2IEP Hamilton, Alex A8W6Q-ZULS Burr, Aaron AP152-5GFB Wash, George A4MYA-4ZDQ Schyler, Liz



Exercise 12: Create a Drill-Through Report

Create a new drill-through report

- 1. Open Announcement List Report_Sort and Group from My Content
- 2. Click on the Queries icon and select Query1 to open the query
- 3. From the list of query items in the query, drag and drop *Vacancy Number* into the *Detail Filters* to create a parameterized filter. Modify the *Expression Definition* to read: [Vacancy Number] = ?Vacancy Number? Click OK
- 4. Save the report as Announcement Detail Report in My Content and close the report
- 5. Open *Report with Visualizations* from My Content
- 6. Identify the query item that will be used to drill-through to the target report. For this exercise, *Vacancy Number* will be used.
 - Click on Vacancy Number, then click on Show properties. Locate Drill-through definitions and click on the ellipses to open the Drill-through definitions window
 - Click the + icon in the bottom left of the window to add a new drill-through definition
 - Under the *Report* area of the window, click the ellipses and navigate to the *Announcement Detail Report* in your My Content. Select the report and click Open
 - Under the *Action* area of the window, change the action from *(Default)* to *Run the report* (continued on next slide)



Exercise 12: Create a Drill-Through Report

Create a new drill-through report

- 6. (Continued)
 - Check the box next to Open in new window
 - Add a parameter by clicking the pencil icon. *Vacancy Number* will automatically populate because it's a parameterized filter on the target report. Change the *Method* to **Pass data** item value and change the *Value* to **Vacancy Number**
 - Click OK on both the *Parameters* window, then the *Drill-through definitions* windows
- 7. Click the *Run Options* icon. Select *Run* HTML to view the report.
- 8. From the report output page, click on a *Vacancy Number* to open/run the drill-through report.
- 9. Close the Cognos Viewer browser window to return to the report. Save the report in My Content as *Report with Visualizations_Drill-Through*



Exercise 12: Create a Drill-Through Report

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Steps 1 - 4




Exercise 12: Create a Drill-Through Report

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USA Staffing" 📳 - 🥂
🔿 (\mathbf{b}) Δ Report with Visualizations_Drill-Through * ~ \odot ••• ?) $\square \sim$ colum odv $\mathbf{\Delta}$ ONDITIONAL . Conditional styles Style variable Text source variable TEXT SOURCE Data item value ■ Source type Data item value Vacancy Number DATA Data format Drill-through definitions ••• BOX Border Padding Double-click to edit text Box type COLOR & BACKGROUND Vacancy Staffing Vacancy Staffing Vacancy Announcement Open Vacancy USAJOBS Vacancy USAJOBS Vacancy Total Background image Applications Organization Name Office Name Number Date Month Display Type Job Title Background effects <Vacancy Staffing <Vacancy Staffing <Vacancy USAJOBS <Vacancy Total <Vacancy Open <Vacancy Announcemer Background color Organization Name> Office Name> Late Month USAJOBS Job Number> Display Type> Applications> Title> Foreground color <Vacancy Staffing <Vacancy Staffing <Vacancy ouncement Open <Vacancy USAJOBS <Vacancy <Vacancy Total FONT & TEXT Organization Name> Office Name> Number> ate Month> Display Type> USAJOBS Job Applications> Title> **Drill-through definitions** Specifies report-to-report drill-through definitions, <Vacancy Staffing <Vacancy Staffing <Vacancv Announcement Open <Vacancy USAJOBS</pre> <Vacancy <Vacancy Total + Organization Name> Office Name> Eate Month> USAJOBS Job Applications> bookmarks, and drill-through text for the object. Number> Display Type> Title> Ŧ

Step 5 - 6



Exercise 12: Create a Drill-Through Report



Step 6

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Vacancy Staffing Office

Name

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Number

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Specialist

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Description

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Vacancy USAJOBS

Job Title

Support Services

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Announcement

Status

Closed

Announcement

Close Date

07/07/2014

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Yes

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Announcement Is

Released

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Exercise 12: Create a Drill-Through Report



Vacancy USAJOBS

Display Type

DE, ST

Announcement Detail Report 🗸

Announcement

Open Date

06/25/2014

Announcement

Number

14-TEST-PSF

Steps 7 - 9



Custom Report-Building Workshop





Open Q&A and Demo

USA Staffing



Resources and Contacts

Cognos Report Author Training Sessions

An overview of USA Staffing data with practical exercises in running standard reports and developing custom reports in Cognos. Contact your Account Manager if you are interested in scheduling a session for the report authors in your organization

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.

HR Users

• Submit a ticket through the interface



Report Author Only and AFD Users

• Contact your internal USA Staffing Lead or Account Manager to submit a ticket on your behalf.

Still Need Help? <u>USAStaffingData@opm.gov</u>