



EAB

Construct Part 2: Inside the Nodes

Back to Basics in Construct and Predict Series

June 14, 2022

Rapid Insight

Meet Your Presenters



Lily Brennan
Rapid Insight Analyst



James Cousins
*Associate Director,
Product Analyst*

Submit a Question or Comment



The screenshot displays the EAB Virtual Session interface. At the top left is the EAB logo, which consists of a blue circle containing a white building icon, followed by the text "EAB". The main background is dark blue with a pattern of light blue geometric shapes. The text "EAB Virtual Session" is prominently displayed in the center. Below this, two callout boxes with orange borders provide instructions: the left one says "Use the Chat feature to send messages to all panelists and attendees" and the right one says "Use the Q&A feature to ask presenters questions". At the bottom, a dark grey navigation bar contains four items: "Audio Settings" with an upward arrow, "Chat" with a speech bubble icon, "Q&A" with a speech bubble icon, and "Leave Meeting" in red text.

EAB

EAB
Virtual Session

Use the Chat feature to send messages to all panelists and attendees

Use the Q&A feature to ask presenters questions

Audio Settings ^

Chat

Q&A

Leave Meeting

Turn on Captions

The image shows a Zoom meeting interface with a white header bar at the top containing the EAB logo (a blue circle with a white building icon) and the text "EAB". Below the header is a dark blue background with a pattern of overlapping circles and lines. In the center, the text "EAB Virtual S" is visible. A callout box with a white background and a blue border points to a "CC" icon in the bottom toolbar. The callout box contains the text: "Enable an automated Live Transcript - Show Subtitle or View Full Transcript". The "CC" icon in the toolbar is highlighted, and a dropdown menu is open, showing three options: "Show Subtitle" (highlighted in blue), "View Full Transcript", and "Subtitle Settings...". The bottom toolbar also includes "Audio Settings" with an upward arrow, "Live Transcript" below the "CC" icon, and "Leave Meeting" in red text.

EAB

EAB
Virtual S

Enable an automated Live Transcript -
Show Subtitle or View Full Transcript

Show Subtitle
View Full Transcript
Subtitle Settings...

Audio Settings ^

CC
Live Transcript

Leave Meeting

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- 3 Inside the Nodes– Slides & Live Demo
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A Partnership to Accelerate Data Democratization in Higher Education



Learn More:

Read more about EAB's latest partnership at
<https://eab.com/rapidinsight/>

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Back to Basics in Construct and Predict Series



View On-Demand Content for Previous Sessions



Construct Part 1: Nodes in the Workspace

Learn tips and tricks in the workspace.

[Back to Basics in Construct and Predict: On-Demand Materials Page](#)

Back to Basics in Construct and Predict Series



[Register for Upcoming Sessions and Encourage Colleagues to Attend!](#)

Six-Part Series

Sessions occur on Tuesdays from 2:00 to 3:00 pm Eastern Time

Construct Part 1: Nodes in the Workspace

On Demand

Learn tips and tricks to work with nodes.

Construct Part 2: Inside the Nodes

Today's Session 😊

Explore node configuration windows and learn where to look for features.

Construct Part 3: Definitions in Construct

August 16

Learn definitions of data and Construct-specific terminology.

Predict Part 1: Basic How-To's

October 11

Explore data visuals, as well as building, saving, and adding predictive models.

Predict Part 2: Definitions in Predict

November 15

Learn modeling process and other relevant terminology.

Navigating Help Resources

December 6

Learn how to access self-service resources for quick answers to your questions.

Poll

Why are you joining today?

- a) Brand new Construct user looking for help
- b) Looking for a refresher in Construct
- c) Just curious and hoping to learn something new



Enter Your Response Using Chat

What nodes do you wish you know more about?

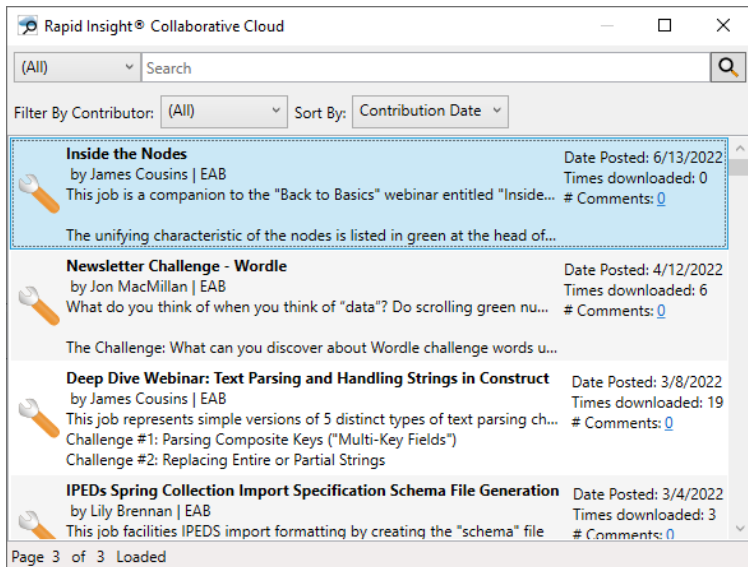
Enter your response in the Chat window!



Presentation Structure

Access Today's Demo Job on the Rapid Insight Collaborative Cloud!

- This presentation will be given almost entirely "live" through the software.
- There are some supporting slides, but you can also access the job and follow along by searching the "Collaborative Cloud" in Construct!



The screenshot shows the 'Rapid Insight Collaborative Cloud' application window. At the top, there is a search bar with '(All)' selected and a search icon. Below the search bar, there are filters for 'Filter By Contributor: (All)' and 'Sort By: Contribution Date'. The main content area displays a list of jobs, each with a wrench icon, a title, author, date posted, download count, and comment count. The first job, 'Inside the Nodes' by James Cousins, is highlighted with a blue dashed border. The second job, 'Newsletter Challenge - Wordle' by Jon MacMillan, is partially visible. The third job, 'Deep Dive Webinar: Text Parsing and Handling Strings in Construct' by James Cousins, is also partially visible. The fourth job, 'IPEDs Spring Collection Import Specification Schema File Generation' by Lily Brennan, is partially visible. At the bottom of the window, it says 'Page 3 of 3 Loaded'.

Job Title	Author	Date Posted	Times downloaded	# Comments
Inside the Nodes This job is a companion to the "Back to Basics" webinar entitled "Inside... The unifying characteristic of the nodes is listed in green at the head of...	James Cousins EAB	6/13/2022	0	0
Newsletter Challenge - Wordle What do you think of when you think of "data"? Do scrolling green nu... The Challenge: What can you discover about Wordle challenge words u...	Jon MacMillan EAB	4/12/2022	6	0
Deep Dive Webinar: Text Parsing and Handling Strings in Construct This job represents simple versions of 5 distinct types of text parsing ch... Challenge #1: Parsing Composite Keys ("Multi-Key Fields") Challenge #2: Replacing Entire or Partial Strings	James Cousins EAB	3/8/2022	19	0
IPEDs Spring Collection Import Specification Schema File Generation This job facilitates IPEDS import formatting by creating the "schema" file	Lily Brennan EAB	3/4/2022	3	0

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Rapid Insight and EAB

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Introduction and Presentation Structure

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Inside the Nodes – Slides & Live Demo

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Preview of Next Session

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Audience Q & A

- 1 Nodes that feature an "Input Columns" list
- 2 Nodes that feature the "Get Values" utility
- 3 Nodes that require "Values" prior to running
- 4 Nodes that allow Parameters
- 5 Nodes that allow groupings
- 6 Nodes with checkboxes as final inputs

Nodes That Feature an “Input Columns” List



Transform



Rank



Transpose



Reverse



Lookup



Median



Filter



Sort



Cleanse



DeDup



FindDup

Input Columns:



Urban_Rural_Indicator
Distance from Campus
Ethnicity
SAT Math
Enroll
Gender
In_State
Legacy
Athlete
FAFSA_FILED
RI_totFamilies_T_2
Inst_Need_Grant
SAT_Verbal
Citizenship Code
Nationality
Department
First Generation
Web Applicant
Admitted
HS Percentile
ID
Application Date
Term Start Date
Attended Event w Family Members
Events Attended
#Email Interactions
Applied for FinAid

Nodes That Feature a “Get Values” Interface

Obtain a list of all distinct **Values** within the given number of Rows



Filter



Transform



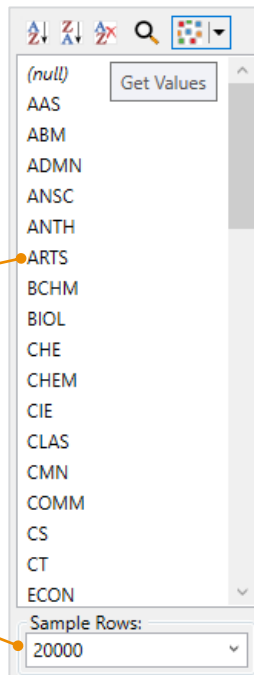
Cleanse



Transpose

Most nodes that feature this list will allow you to click values within the list to complete the configuration process (e.g., clicking a value to use it as a filtering condition)

The sample is always based off of the number of rows specified here, and you can change the default as a setting in Tools>Options.



Nodes That Require “Values” Prior to Running



Transpose



CrossTab

Being that “Getting Values” is optional in other nodes, users sometimes save these nodes before they’ve gotten values.

The screenshot shows the configuration window for the Transpose node. The 'Transpose By' field is set to 'Attempt'. The 'Transpose By Values' checkbox is checked. The 'Values' field is highlighted with a blue box, and an arrow points to the 'Get Values' dropdown menu. The 'Values' list contains the numbers 1, 2, 3, and 4. The 'Value count' is 4.

Nodes That Allow Parameters



Filter



Transform



Output



Report



Bridge



Sample



List Param



SQL Each



Subroutine



Call Job



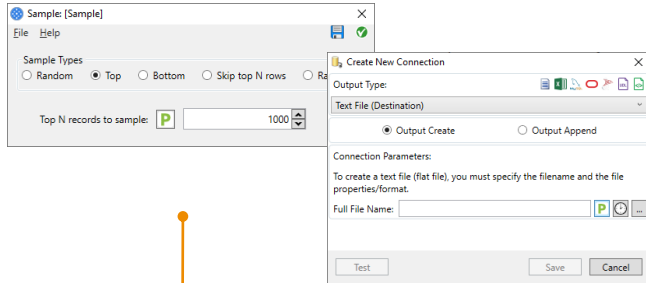
Call Each



Run SQL

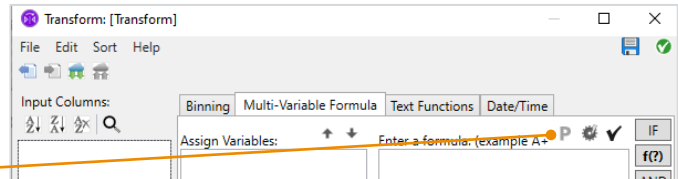


Query



The icon is usually apparent in the interface, though you'll find it in different locations based on the node

In rare cases, it will be grayed out whenever your active job has no actual parameters



Nodes That Allow Groupings



Rank



Aggregate



Median

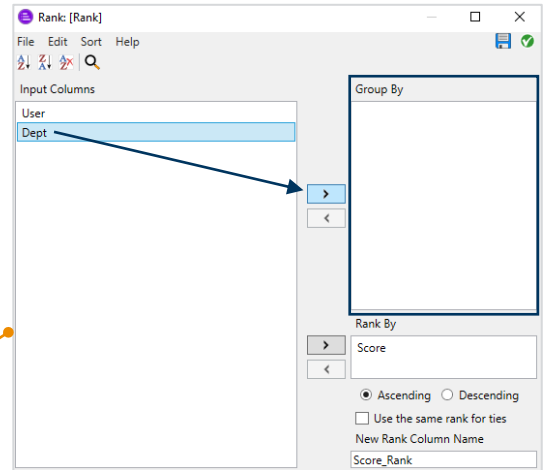


Group By



Frequency

In these cases, the groupings allow you to request the node's specific output broken down by the key categories you've identified, such as "the median score *by department*"



Nodes With Checkboxes as Final Inputs



Aggregate



CrossTab



Profile

In these nodes, users occasionally feel the need to do something *after* they've checked a box to choose an output option. In fact, checking the box is a complete action on its own, and users could save and run their jobs.

Output Columns	Min	Max	Count	Mean	Sum	Count Distinct	First	StdDev
User	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Dept	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Score	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Back to Basics in Construct and Predict Series



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Learn modeling process and other relevant terminology.

Navigating Help Resources

December 6

Learn how to access self-service resources for quick answers to your questions.

Poll

Would you like to be registered for any upcoming sessions? (multi-select)

- a) Construct Part 3: Definitions in Construct (Aug 16)
- b) Predict Part 1: Basics How To's (Oct 11)
- c) Predict Part 2: Definitions in Predict (Nov 15)
- d) Navigating Help Resources (Dec 6)



Rapid Insight Office Hours

Sessions Occur Every 3 Weeks

- Next session: Thursday, June 16, 1:30-2:30 pm Eastern Time
- Register for sessions [online](#) (linked in the Chat)



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Q & A: Submit a Question Using the Q&A Button



Lily Brennan
Rapid Insight Analyst



James Cousins
*Associate Director,
Product Analyst*



Additional Questions?

Email RI-Support@eab.com with technical questions and RapidInsight@eab.com for all other inquiries.

Quick Poll

How was today's session?

Please take a few minutes to complete the follow-up survey
(linked in the Chat) to provide additional feedback!



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