

# Creating Fixed Width Files for IPEDS Reporting

A Rapid Insight Deep Dive

March 29, 2023

## **Meet Your Presenters**

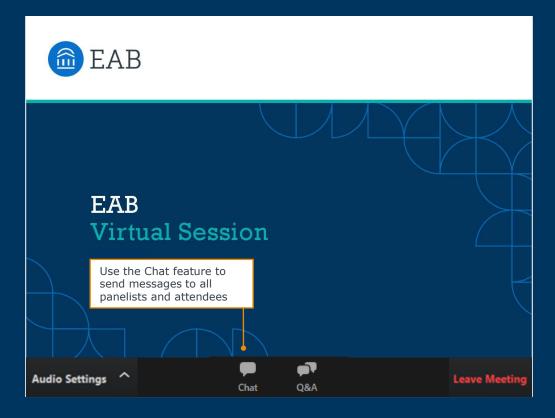


**Lily Brennan**Strategic Leader,
Data and Analytics



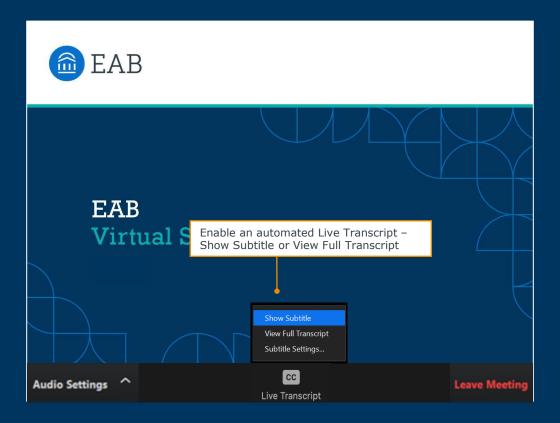
James Cousins
Senior Strategic Leader,
Data and Analytics

## Submit a Question or Comment



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# Turn on Captions



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Quick Poll

# How long does it typically take you to complete your IPEDS or state reporting?

- A. 1 10 hours
- B. 10 30 hours
- C. 30 50 hours
- D. 50+ hours

Quick Poll

# How comfortable are you with using Construct to create fixed width files?

- A. Very comfortable
- B. Comfortable
- C. Somewhat comfortable
- D. Uncomfortable

- Common Reporting Challenges
- 2 Using Construct
- 3 Live Demonstration
- 4 Partner Examples
- 5 Audience Q & A

# Common Reporting Challenges

The National Center for Education Statistics (NCES) uses the Integrated

Post-Secondary Education Data System (IPEDS) to collect data.

**Federal Funding Requires Data** 

#### **Submissions Take Time**

Gathering, organizing, and submitting data consumes multiple staff positions and dozens of staff hours.

#### **Extensive Verification Needed**

Manual data entry is tedious and requires an extensive verification process to ensure accuracy prior to submission.

**Multiple Submissions Per Year** IPEDS has three collection periods with 3-5 surveys due in each collection.



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Direct Connection to Data Sources



Streamline Data





Create a Fixed Width Output File for data upload



Re-use workflows each year

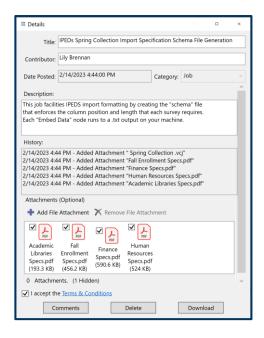


Use jobs available in RI Collaborative Cloud

# Rapid Insight Collaborative Cloud

Open the "IPEDS Spring Collection Import..." Job to Follow Along







A text file that is arranged so that each column has a specified width.

- No delimiters used to separate fields
- The width of each column is known
- The position where each column begins and ends is known
- ✓ A schema is used to create the file

IPEDS 2022-23 Import Specifications: Fall Enrollment Applies to: 4-year, degree-granting institutions

File type: Fixed Length/Positional (\*.txt)

Field ID (Key)	Column	Length	Data type	Description
Count by R/E: Fall Enrollm	nt by Studen	Level, Atter	dance Status, R	ace/Ethnicity, and Gender
UNITID	1	6	N	UNITID
SURVSECT	7	3	AN	Survey Section
PART	10	1	AN	Part of survey section - Race/ethnicity and Gender
CIPCODE	11	7	AN	Classification of instructional program (CIP) code
LINE	18	2	AN	Student level
EFRACE01	20	6	N	U.S. Nonresident - Men (1)
EFRACE02	26	6	N	U.S. Nonresident - Women (2)
EFRACE25	32	6	N	Hispanic/Latino - Men (25)
EFRACE26	38	6	N	Hispanic/Latino - Women (26)
EFRACE27	44	6	N	American Indian or Alaska Native - Men (27)

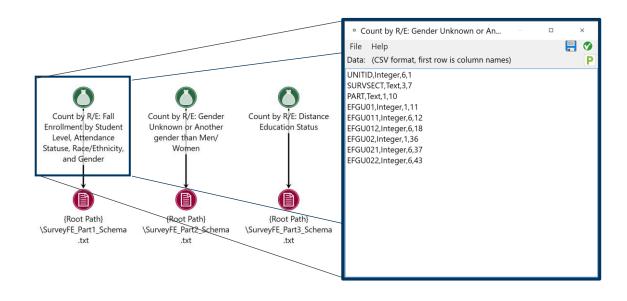
A schema describes the structure of a data file.

Requirements for a schema file:

- Column title
- Column starting position
- Length of field in number of characters
- Data type of field

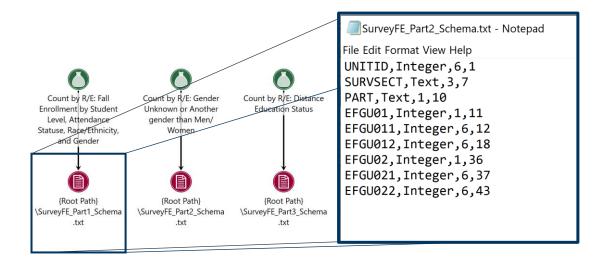
## How to Create Schema Files with Construct

Using an Embed Data Node to Create a Schema



## How to Create Schema Files with Construct

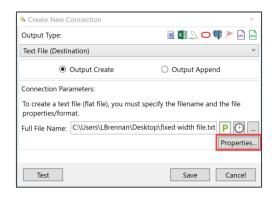
### Schema File Output

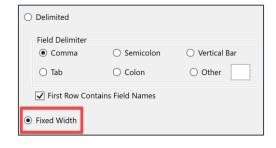


# Using Schema Files to Create Fixed Width Output

## Configuring Fixed Width Schema in File Properties

- 1. Properties
- 2. Fixed Width
- 3. Advanced
- 4. Next
- 5. Import
- 6. Browse to schema file
- 7. Import
- 8. Next
- 9. Finish
- 10. Save
- 11. Run

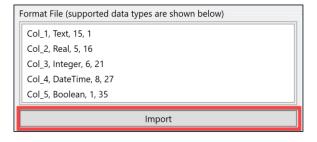




# Using Schema Files to Create Fixed Width Output

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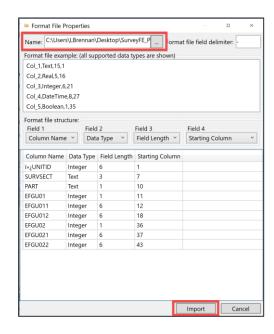
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# Live Demonstration

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- Common Reporting Challenges
- **Using Construct**
- 3 Live Demonstration
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#### **IPEDS Completion Survey**

PROBLEM >



SOLUTION >

IMPACT >





#### **Time Intensive Process**

- 40 hours of work
- · 2-3 people required for verification
- Tedious manual entry into **IPEDS**
- · Errors in data entry found during verification process

#### **Rapid Insight Automation**

Use of Construct to generate schema files. Separation of data into specific categories streamlined.



#### **IPEDS File Import**

Construct job developed to format data and create a compatible file to upload to IPEDS.



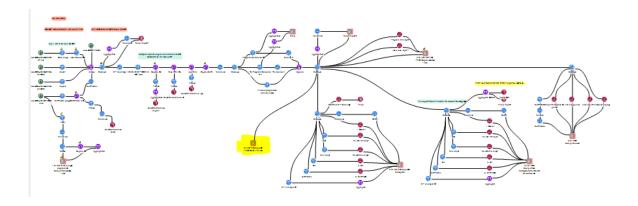


#### Time Reduction

- 75% reduction in time required to prepare report
- 30 hours saved
- · 2 staff members freed up to work on other institutional priorities
- · Data validation is faster and easier
- · No user error when entering data

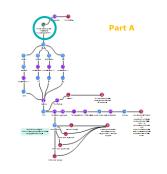
# Mount Saint Mary's University

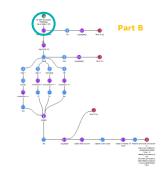
## Preparing the Data

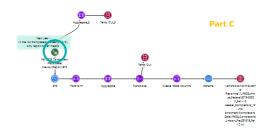


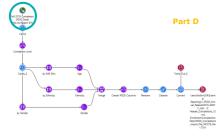
"Completers IPEDS Detail File" became the source file for the File Import Jobs

## Using Schemas to Build Import Files









# 2!

### **IPEDS Completion Survey**

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1

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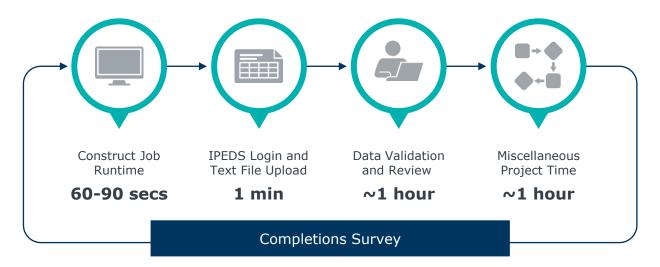
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## St. Michael's College

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**IPEDS Submission Using Construct** 





17 hours on average **before** to complete submission

90% time savings **after** new process of ~2 hours

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# Submit a Question Using the Q&A Button



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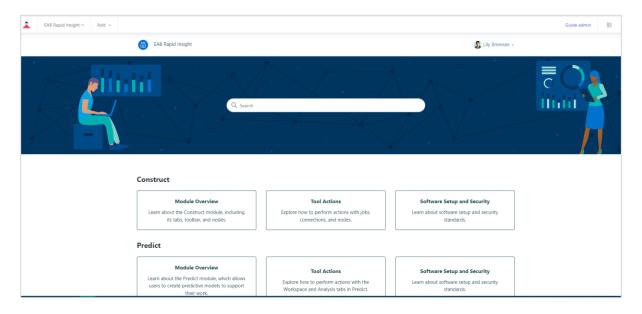


**Additional Questions?** 

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



## https://support.rapidinsight.eab.com/hc/en-us



# Ways to Reach Us





### **Monthly Office Hours**

Thursday, April 20<sup>th</sup> 1:00-1:30 PM EST Register Online



#### **Email**

RI-Support@eab.com



## **Help Center**

Submit a request

## Quick Polls

- 1 How comfortable are you with using Construct to create fixed width files now?
  - A. Very comfortable
  - B. Comfortable
  - C. Somewhat comfortable
  - D. Uncomfortable
- 2 How was today's session?



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