

Flows Can Guide You in Your Journey to Automation

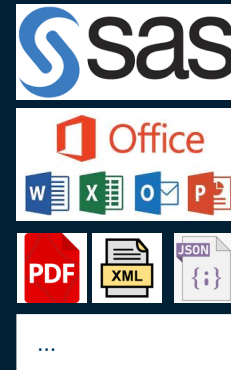
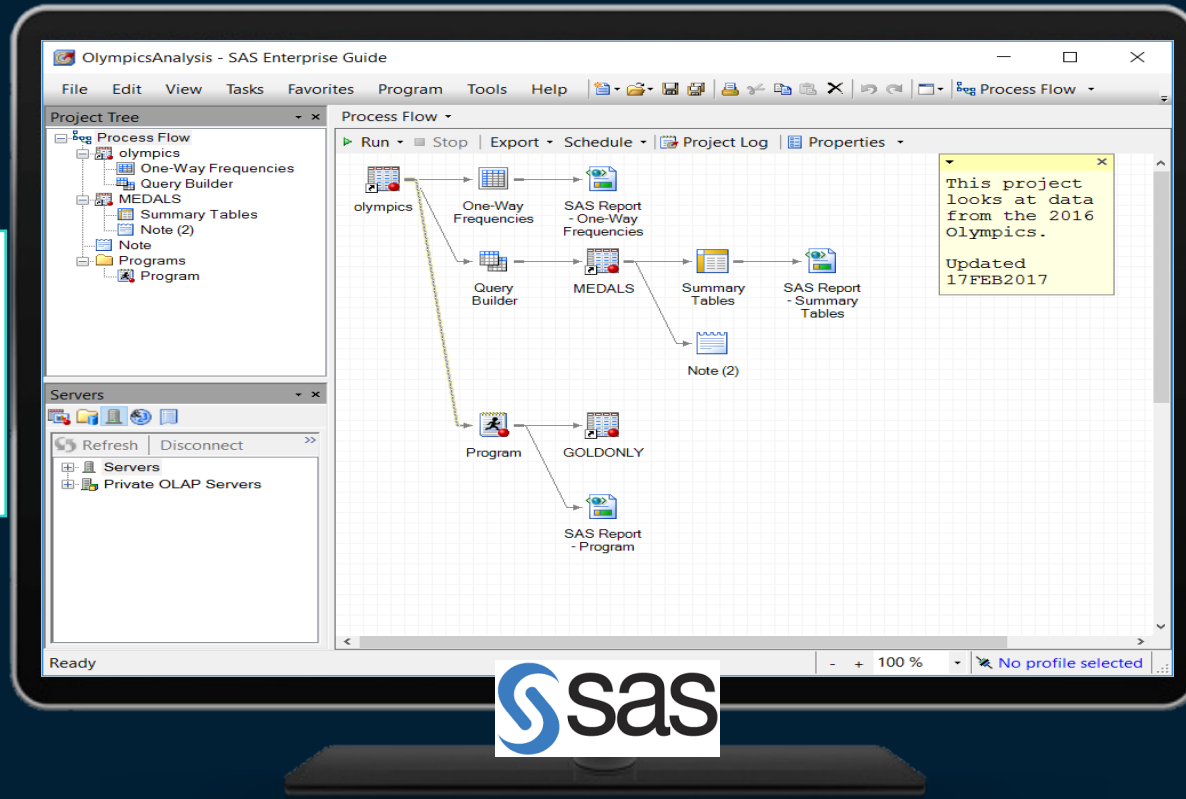
PHUSE Single Day Event – Zurich, Switzerland
September 4, 2023

Daniel Christen
Technical Account Manager – SAS Schweiz AG

SAS Enterprise Guide

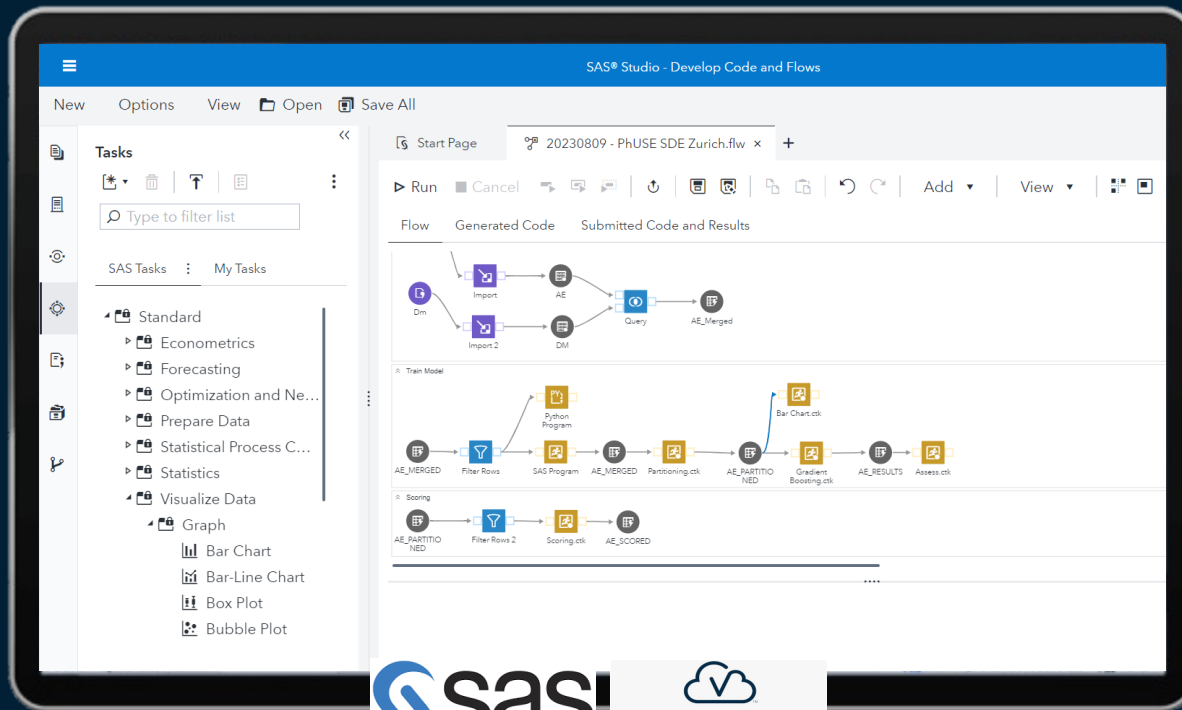
SAS/ACCESS® Interface to DB2
SAS/ACCESS® Interface to Google BigQuery
SAS/ACCESS® Interface to Greenplum
SAS/ACCESS® Interface to Hadoop
SAS/ACCESS® Interface to Impala
SAS/ACCESS® Interface to IMS-DLI
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SAS/ACCESS® Interface to PC Files
SAS/ACCESS® Interface to PostgreSQL
...

Licensed modules only

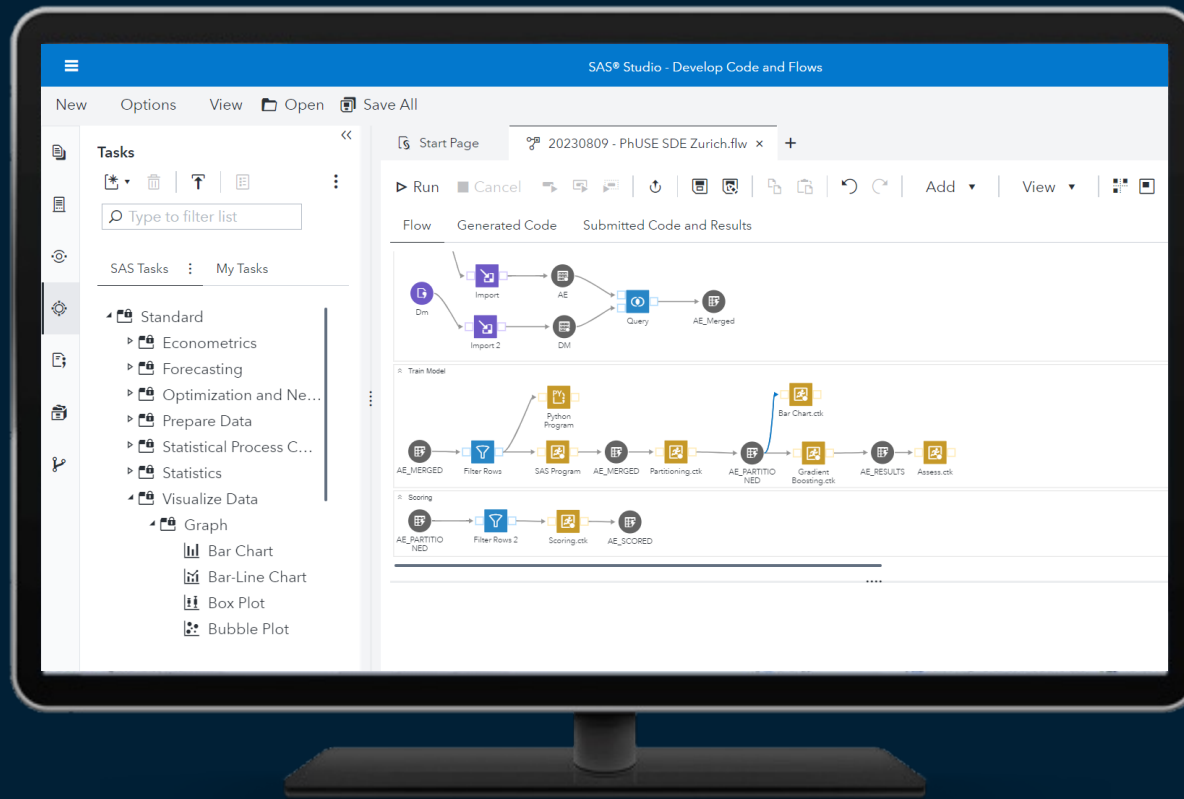


SAS Studio Flows

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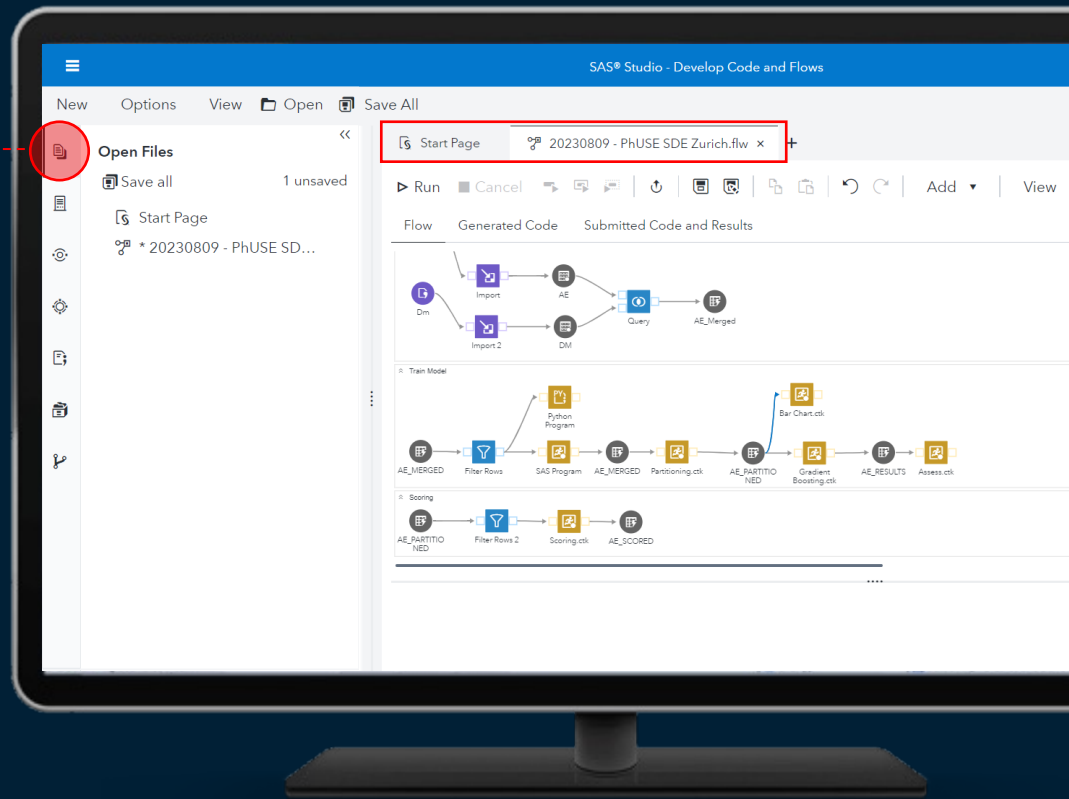


SAS Studio Flows



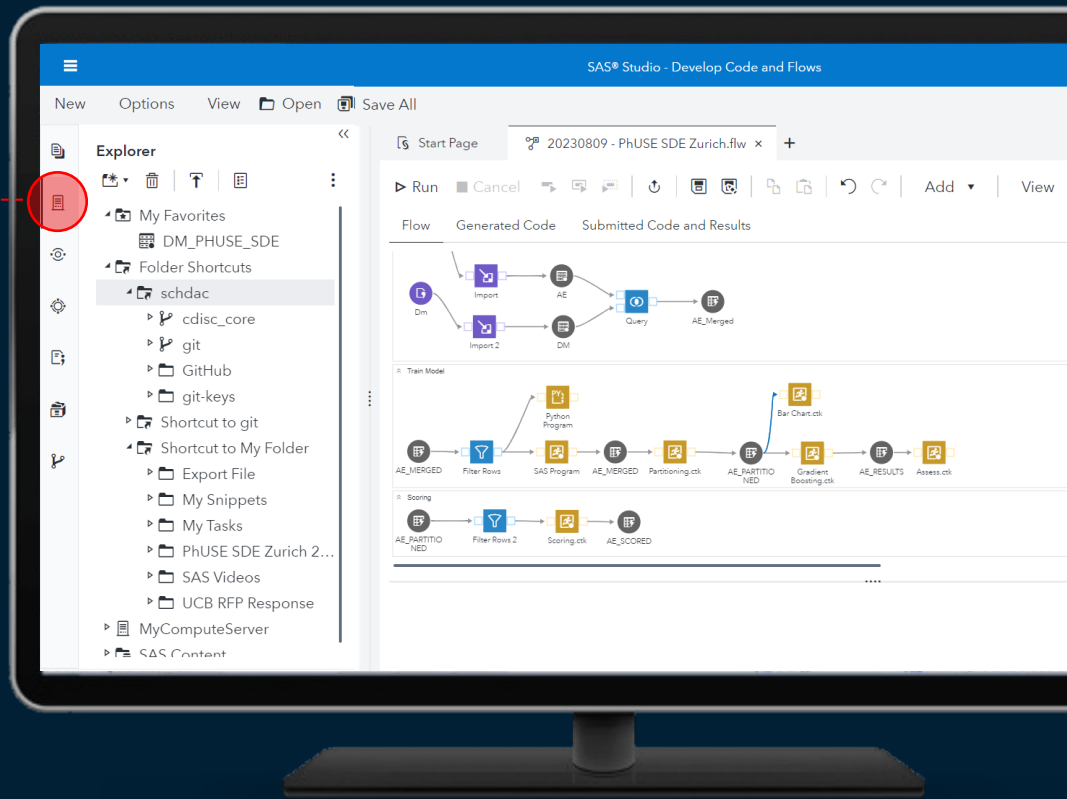
SAS Studio Flows

Quickly navigate between open programs, flows, tasks and jobs



SAS Studio Flows

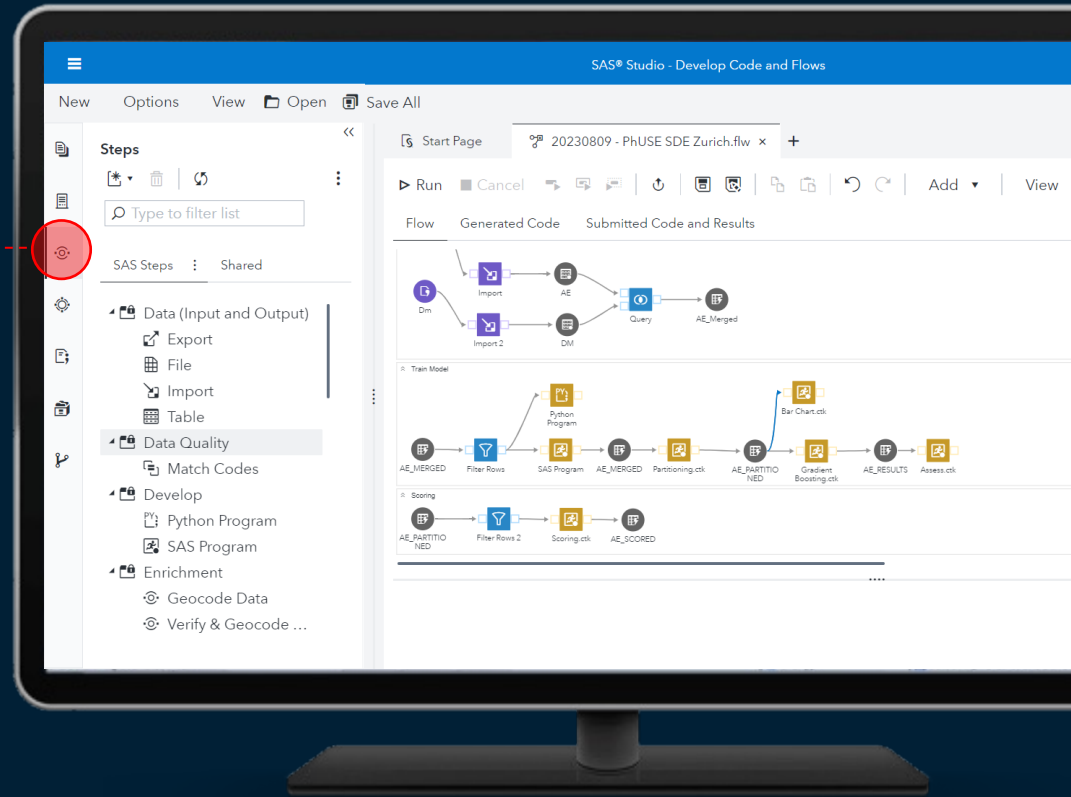
Quickly locate available programs, flows, tasks and jobs



SAS Studio Flows

Insert Steps

SAS steps are the basic building blocks of a program that perform specific tasks such as reading data, transforming data, analyzing data, or displaying results

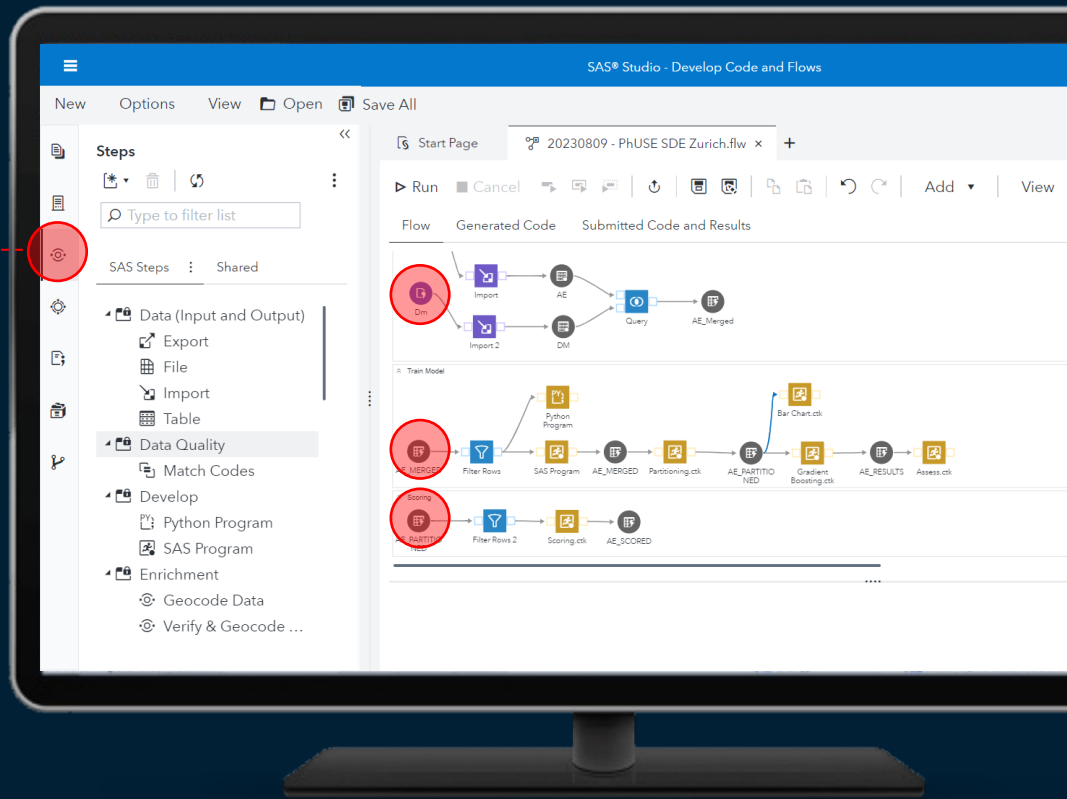


SAS Studio Flows

Insert Steps

Data

- Input Data
- Data Quality

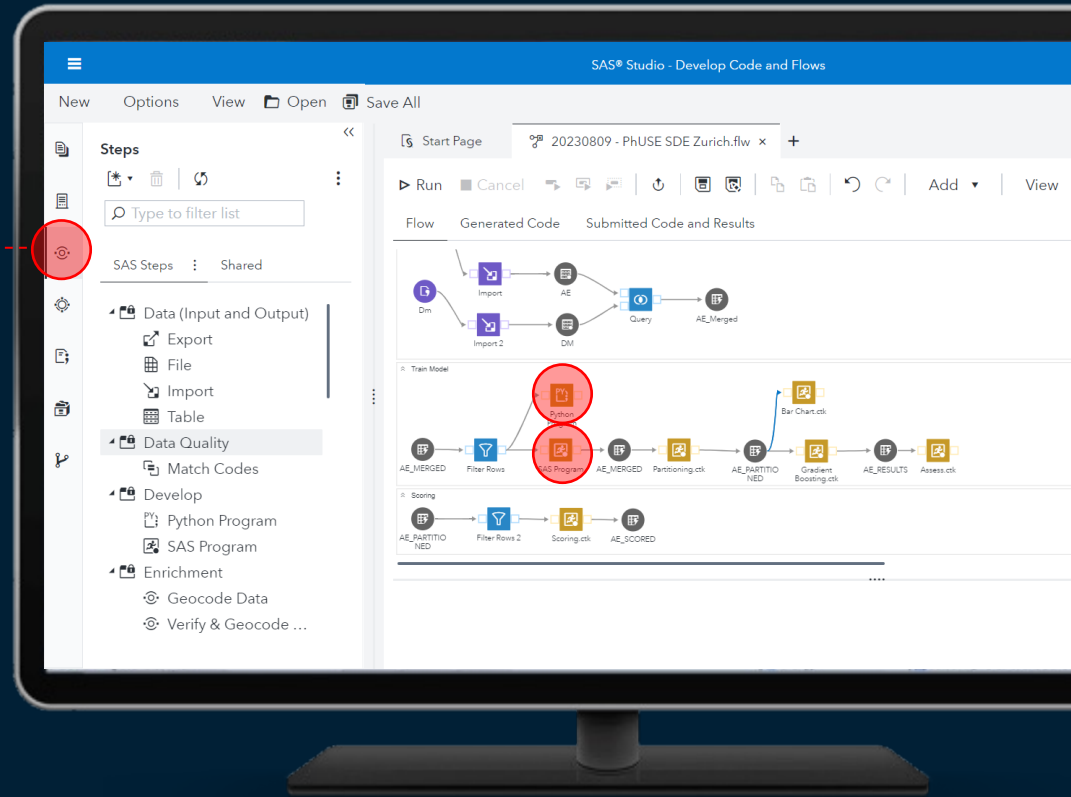


SAS Studio Flows

Insert Steps

Develop

- SAS Programs
- Python Programs
- R Programs (IML)

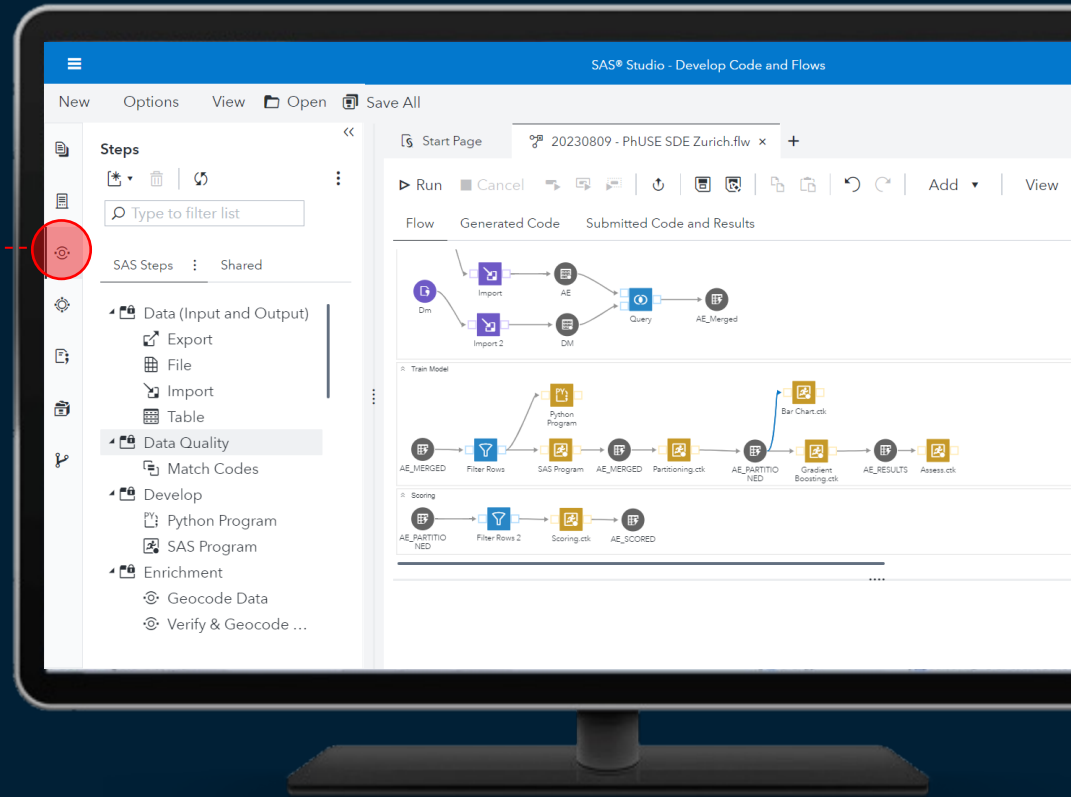


SAS Studio Flows

Insert Steps

Enrichment

- Geocode Data
- Verify eMail Address
- Verify Phone Numbers

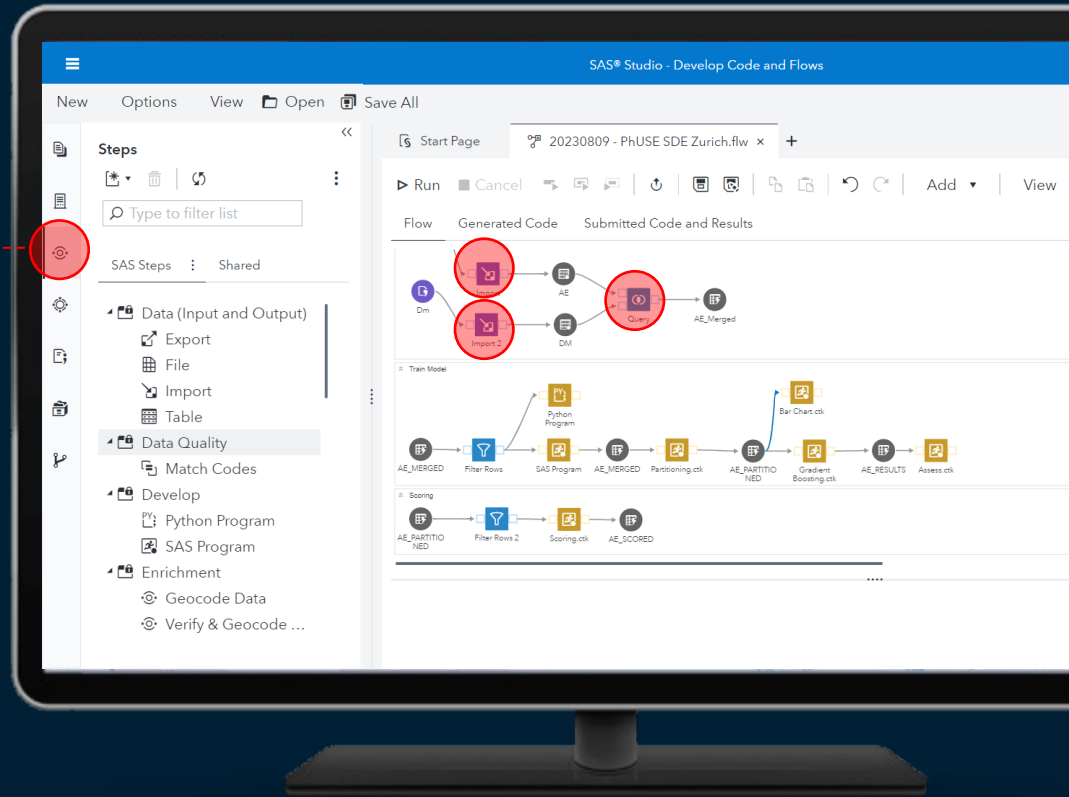


SAS Studio Flows

Insert Steps

Integrate

- Execute Decisions
- Implement SCD
- Load Table
- Merge Table

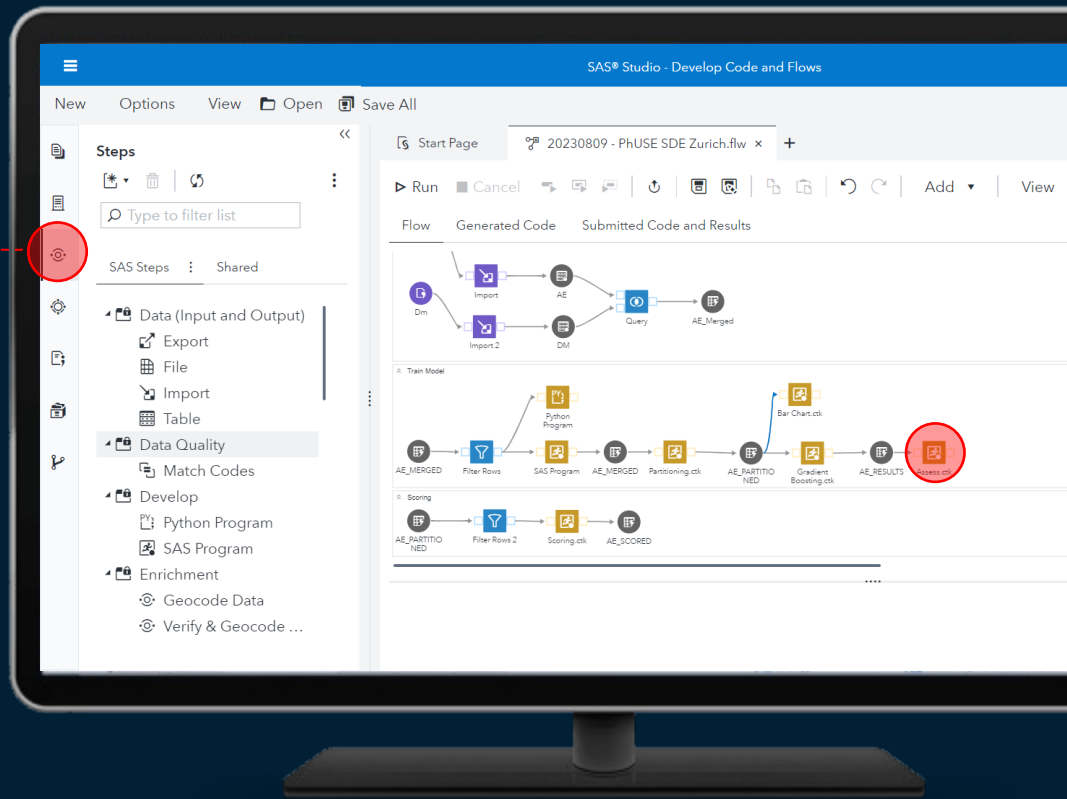


SAS Studio Flows

Insert Steps

Manage Models

- Register Models

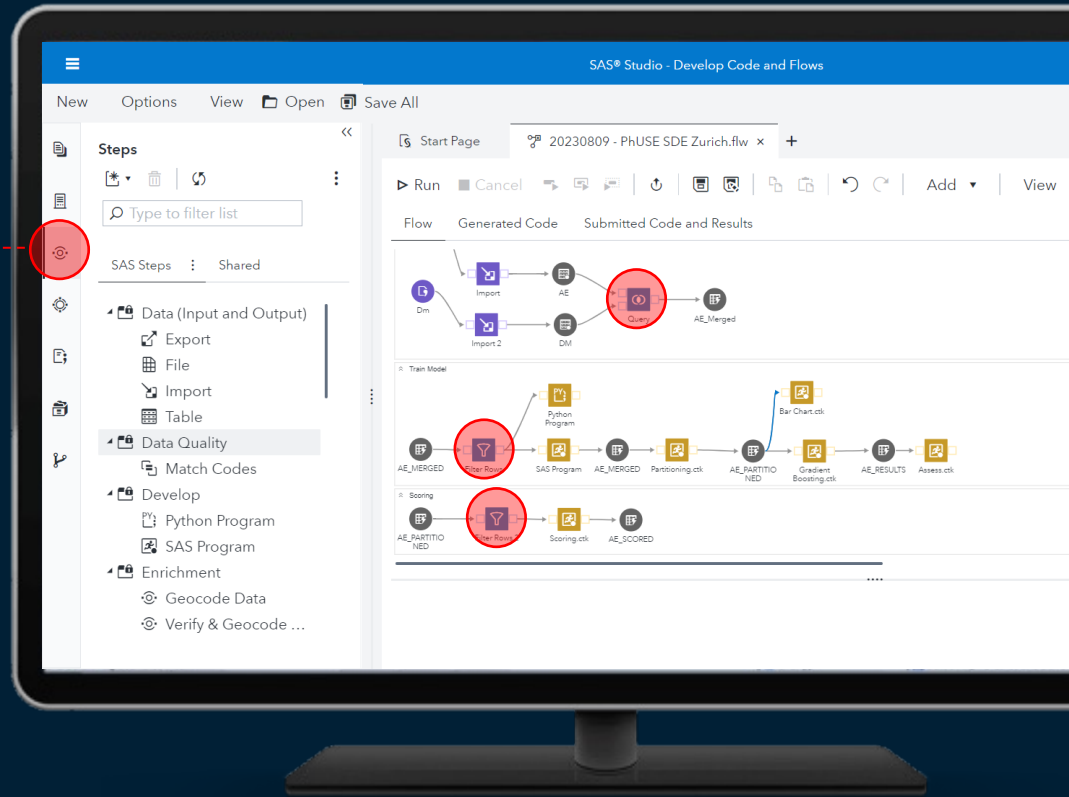


SAS Studio Flows

Insert Steps

Transform Data

- Branch Rows
- Calculate Rows
- Filter Rows
- Insert Rows
- Manage Columns
- Mask Data
- Query Data
- Rank Data
- Remove Duplicates
- Sort Data
- Transpose Data
- Union Rows

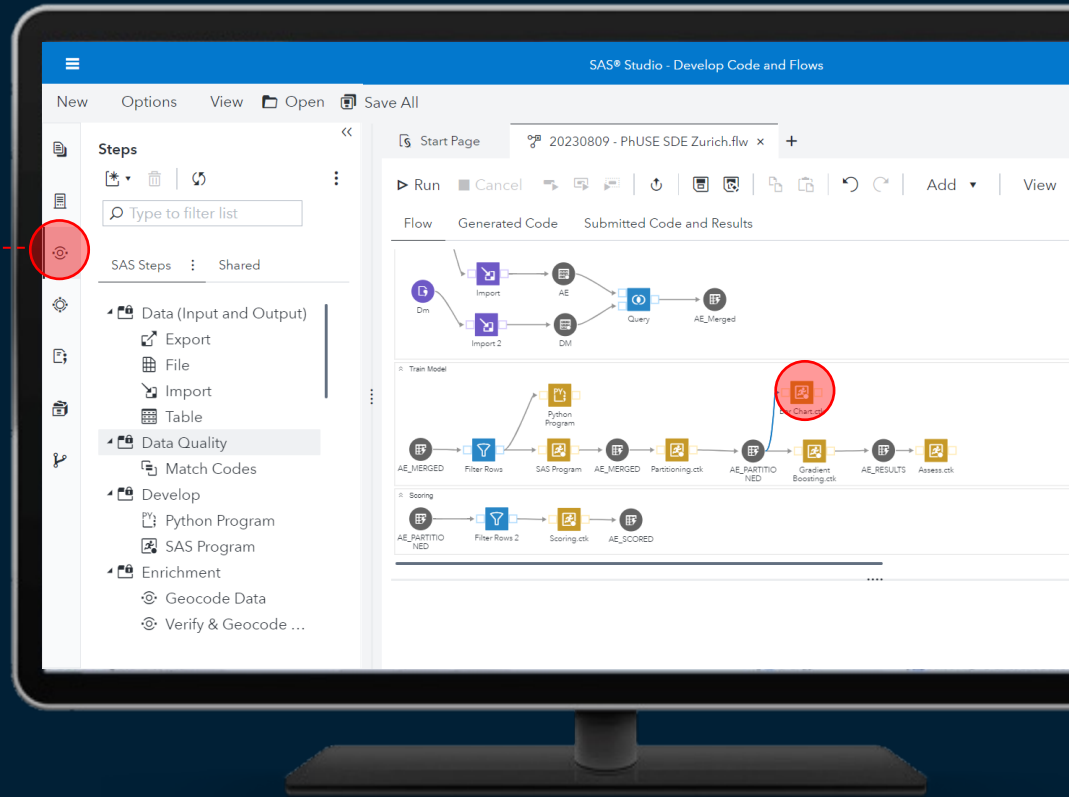


SAS Studio Flows

Insert Steps

Visualize Data

- Bar Chart
- Bar-Line Chart
- Scatter Plot



SAS Studio Flows

Insert Steps
Develop and share !

The image illustrates the process of developing and sharing SAS Studio custom steps. It features three main components:

- SAS Studio Interface:** The top right shows the SAS Studio 'Steps' panel. A red circle highlights the 'Shared' icon, indicating that the custom step is available for sharing. The 'Data (Input and Output)' section is also visible.
- GitHub Repository:** The bottom left shows the GitHub repository 'sas-studio-custom-steps'. It includes a table of files and their commit history.
- SAS Studio Flows:** The bottom right shows the SAS Studio 'Flows' panel, displaying a workflow diagram with steps like 'Import', 'Query', 'AE_Merged', 'Train Model', and 'Scoring'.

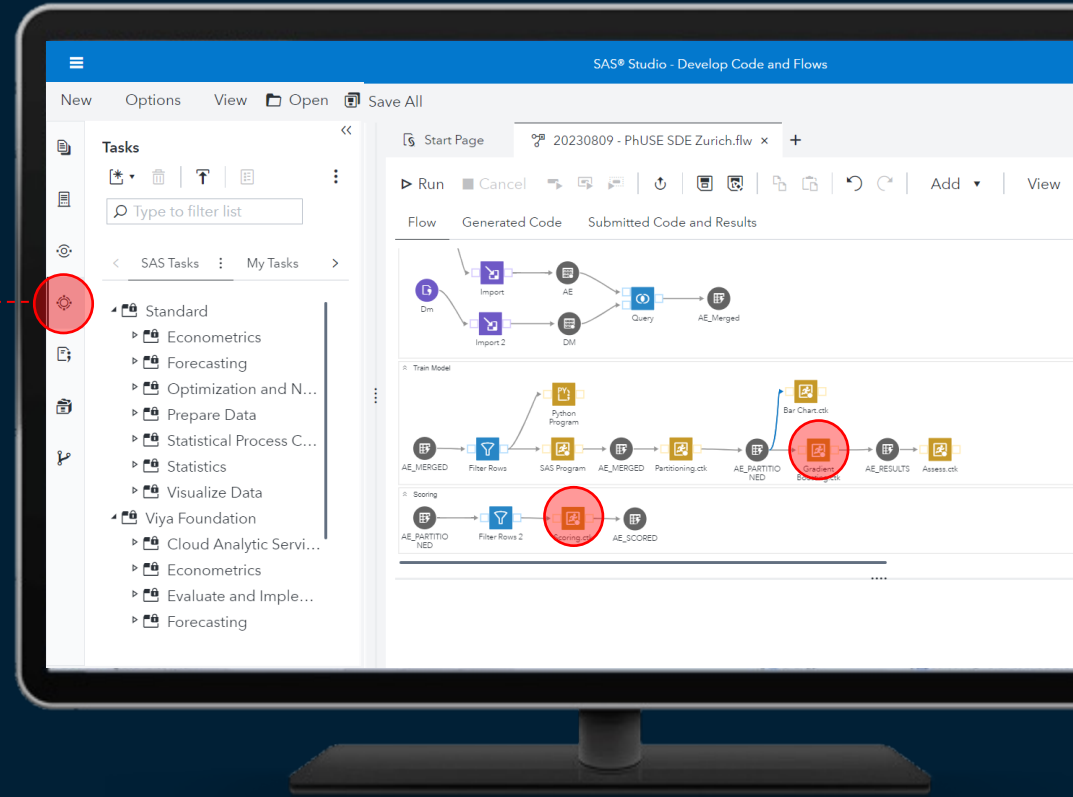
File	Commit Message	Commit Date	Commits
snlwih	Update CUSTOM_STEPS_LIST.md	3ca54b1 3 days ago	603 commits
.github	Update pull_request_template.md		6 months ago
Anonymize and Mask Data	Update README.md		3 weeks ago
Append Table	Fixed some text		10 months ago
CAS - Generate Unique ID	WH changes requested in PR # 80		last week
CAS - Load Tables from Folders i...	Updated Screenshot		7 months ago
CAS - Validate Unique ID	CAS - Validate Unique ID		last month
CAS - Convert Char to Varchar	Update README.md		6 months ago
Create Listing of Directory CLOD	Adjusting custom step names for CLOD and DAFT		10 months ago
DQ - Change Case	updated step		5 months ago
DQ - Clustering	DQ Clustering and DQ Standardize improvements to meet UI sta		8 months ago

[sassoftware/sas-studio-custom-steps](https://github.com/sassoftware/sas-studio-custom-steps): Repository to share SAS Studio Custom Steps. A custom step enables you to create a user interface for SAS Studio users at your site to complete a specific task. (github.com)

SAS Studio Flows

Insert Tasks

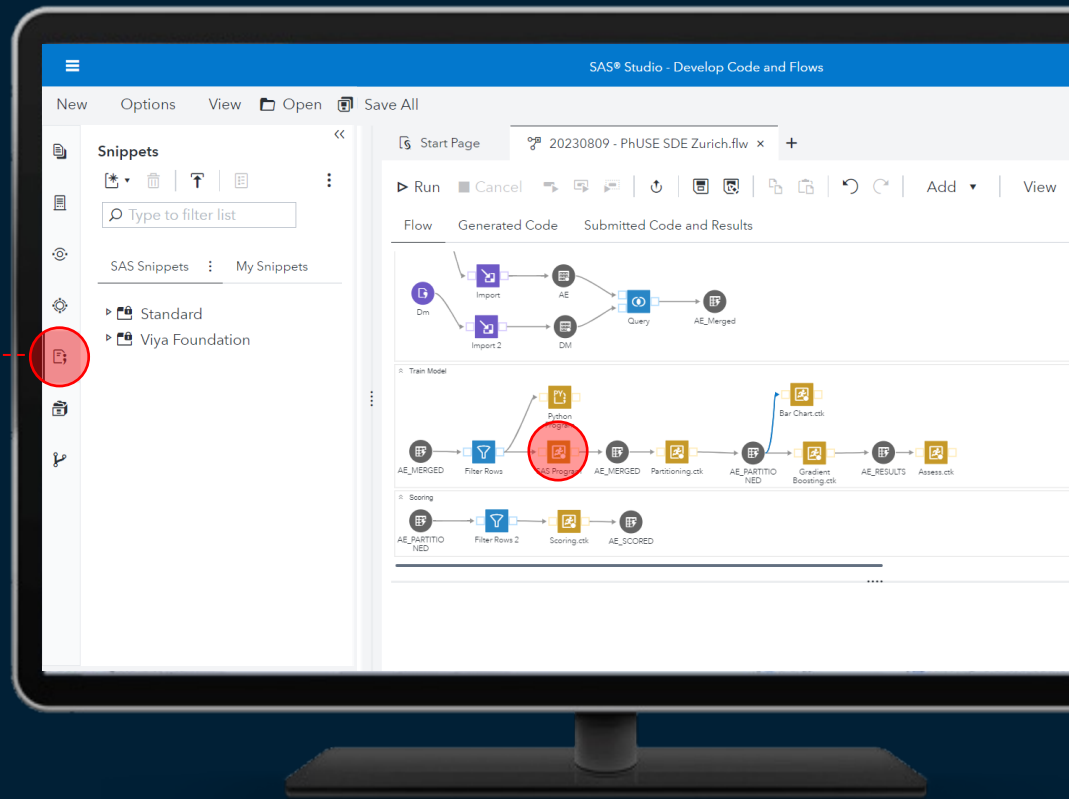
Tasks are point-and-click user interfaces that enable you to perform various data analysis and visualization operations. These are grouped into traditional SAS 9 functionality and advanced SAS Viya capabilities.



SAS Studio Flows

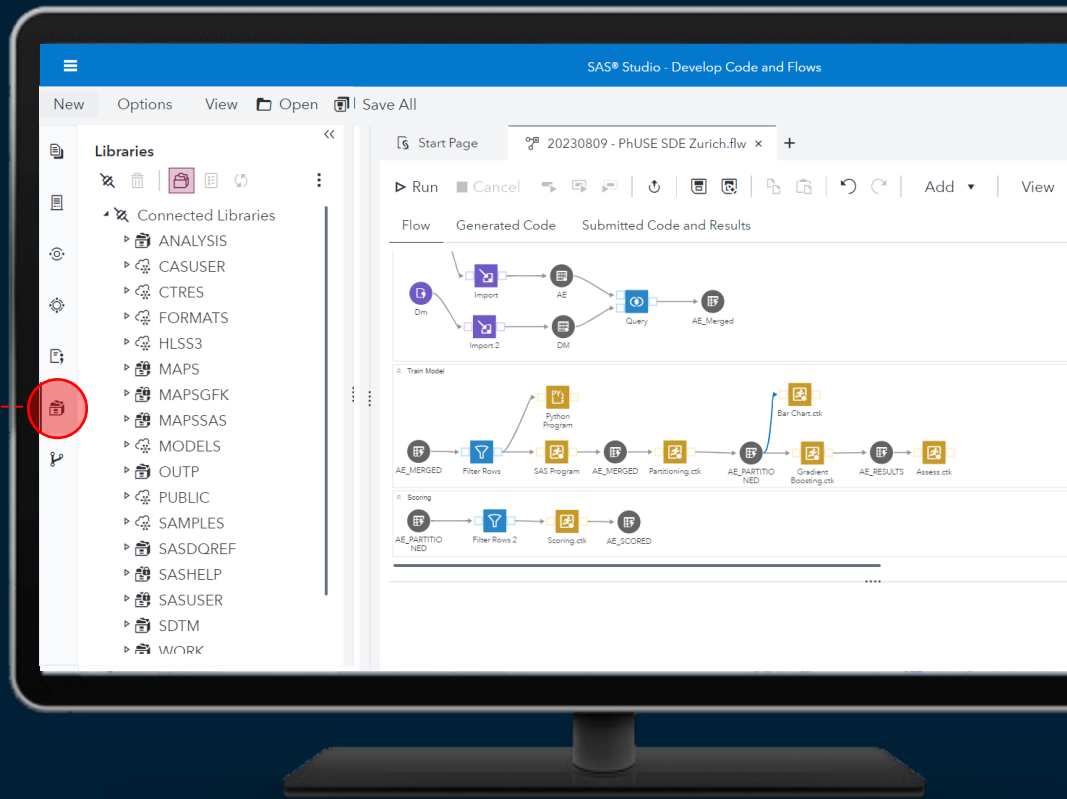
Snippets

Snippets are reusable pieces of code that you can insert and customize in your programs.



SAS Studio Flows

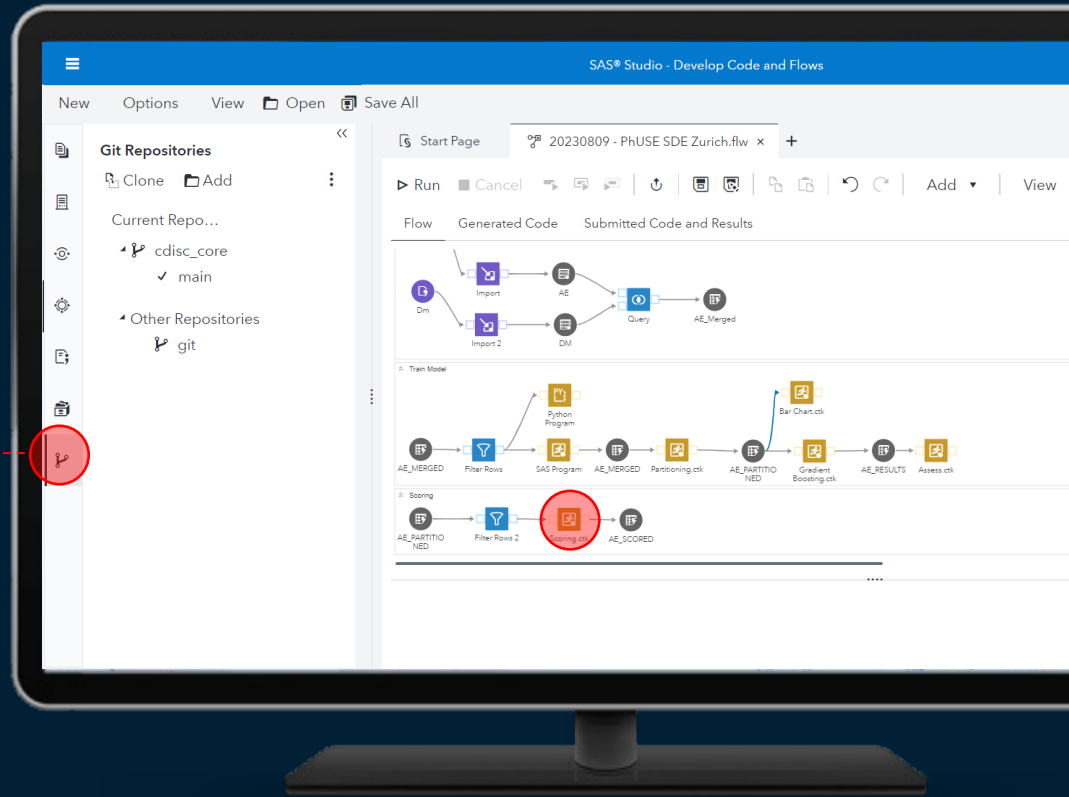
Libraries
Access Data Libraries



SAS Studio Flows

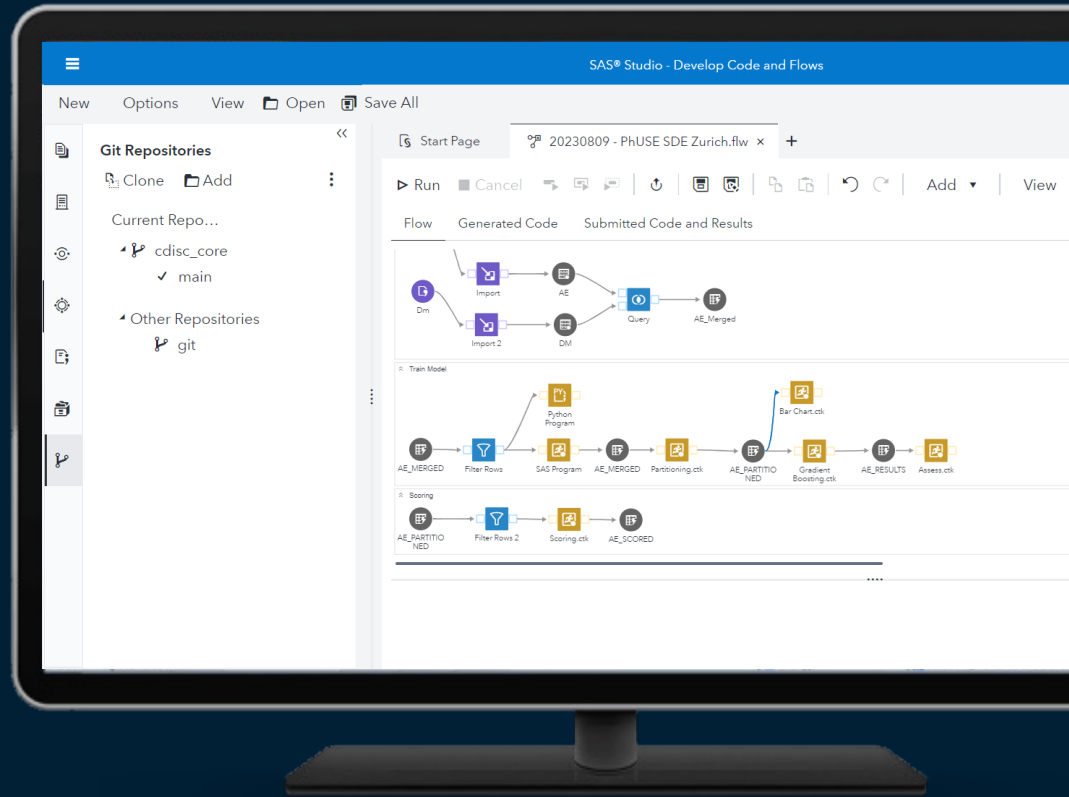
Git Repositories

Connect to personal,
shared and public Git
Repositories



SAS Studio Flows

Demo Time !



SAS Studio Jobs



A job in SAS Viya is a way to run SAS code on the web, either from SAS Studio or from a URL. A job consists of a program and its definition, which includes metadata such as the job name, author, and creation date and time.

You can also create prompts or forms to interact with the user and pass parameters to the job. Jobs are similar to stored processes in SAS 9.4, and you can even promote stored processes to jobs in SAS Viya.

<https://youtu.be/UVvsRGjQ174?si=wkvCGNRUpT2mUTIN>

[Jobs: Stored processes in Viya - SAS Users](#)

Thank You



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