

**Branch Menu:** Provides access to alternative branches, workflow history, and allows viewing and reverting to old versions of the current branch.

**Insert Cell:** Insert new cells, with quick access to markdown doc cells, and a special "artifact inspector" cell that allows easy debugging of workflows.

**Cell:** Steps in a Vizier workflow are defined by "cells" that can contain python code, SQL, or specialized modalities for tasks like discovering and loading datasets.

The screenshot shows the Vizier workflow interface. At the top is a dark blue header bar with a 'Vizierdb' logo, a tab labeled 'Example', and icons for branching (a fork), editing (a wrench), and help (a question mark). Below the header is a table with two columns, both labeled '2'. The first column has rows 2 and 3. To the left of the main content area is a vertical toolbar with icons for editing (pencil), inserting (plus), deleting (trash), and artifact inspection (magnifying glass over a document). The main content area displays a code cell with the following Python code: 

```
# Accumulate results
groups = {}
for row in vizierdb["s"].rows:
    if row["A"] not in groups:
        groups[row["A"]] = [ row["B"] ]
    else:
        groups[row["A"]] += [ row["B"] ]
print(groups)
```

 Below the code, the status is 'Completed' with a timestamp '7/26/2022 3:53:45 PM (1 s)'. At the bottom of the cell, a light gray box shows the output: 

```
{1: [3], 2: [None, 2]}
```

 To the right of the main content area is a sidebar with two sections. The 'Workflow' section lists three steps: '1. Load r', '2. SELECT into S', and '3. Accumulate results'. The 'Artifacts' section lists two artifacts, 'r' and 's'. Each artifact has a set of icons: a warning triangle, a spreadsheet, a download arrow, and an eye. Red lines and boxes highlight specific features: a box around the branching icon in the header, a box around the editing, insert, and delete icons in the toolbar, a box around the artifact inspection icon in the toolbar, a box around the 'Workflow' section title, a box around the artifact icons in the 'Artifacts' section, and a box around the 'Table of Contents' text in the right margin.

**Workflow**

1. [Load r](#)
2. [SELECT into S](#)
3. [Accumulate results](#)

**Artifacts**

|   |  |  |  |  |
|---|--|--|--|--|
| r |  |  |  |  |
| s |  |  |  |  |

**Table of Contents:** Shows the of cells in the workflow with a brief summary. In code cells, users can specify the cell's table of contents entry with a comment on the first line.

**Artifacts:** Shows all artifacts produced by the workflow, with quick action links for each.

**Modality Links:** Artifacts include links to artifact-specific interaction modalities, like the caveat list or spreadsheet view for a dataset artifact.

**Provenance:** Jump directly to the point in the workflow where the artifact was created.