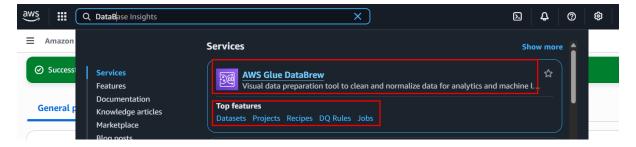
AWS Glue DataBrew

To Begin with the Lab

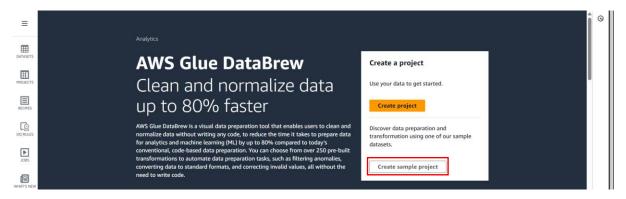
Summary of the Lab

In this lab, you explore **AWS Glue DataBrew** to visually clean, transform, and prepare data for analytics or machine learning. You start by creating a **sample project** using a built-in dataset (e.g., Chess game moves) and assigning an IAM role for S3 access. Once the dataset loads, you can interactively view data, analyze column details, and apply transformations like converting text to uppercase or deleting columns. Each transformation is saved as a **recipe step**. Finally, you create and run a **DataBrew job**, specifying output details such as S3 location, file format, and compression, to generate the processed dataset.

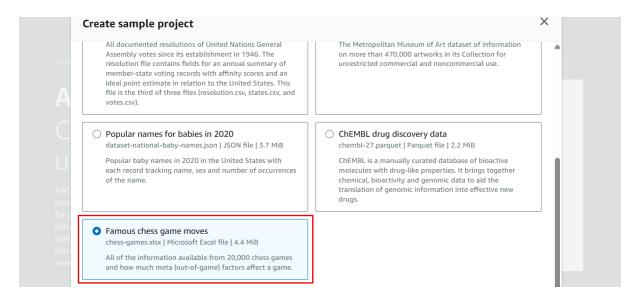
- Sign in to the AWS Management Console.
- In the search bar, type **DataBrew** and select **AWS Glue DataBrew**.
- You'll see options like **Projects**, **Datasets**, **Recipes**, and **Jobs**.



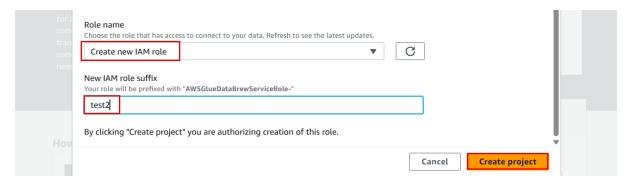
• Click on Create sample project.



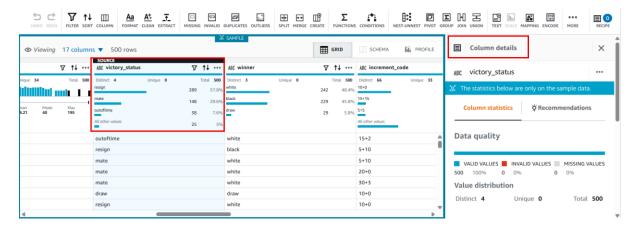
- Choose a **sample dataset** or upload your own.
 - o Example: Select the "Chess game moves" dataset.



- Under IAM Role, select an existing role or click Create new role.
 - o DataBrew will automatically assign permissions to access S3.
- Click Create project.
- Wait for a minute while the interactive session and dataset load.

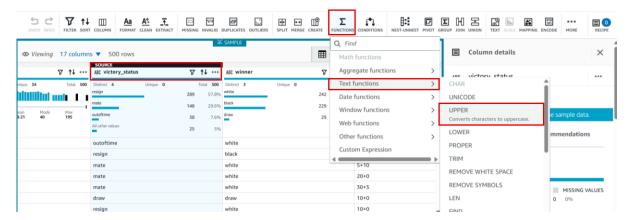


- View the dataset preview in the **Data grid** area.
- When you select the column, you can check the Column details section to see:
 - Data types
- Optionally, click **Profile** to generate a **data profile report** (shows distributions and quality).

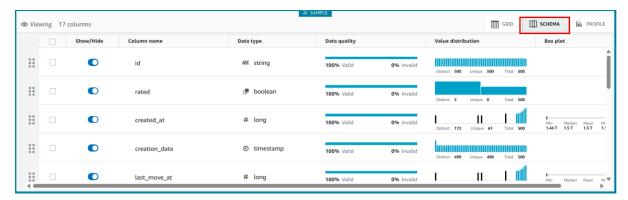


• Select a **column** from your dataset.

- Choose a transformation from the top menu, such as:
- Text functions \rightarrow convert to uppercase.
- Click **Preview changes** to see results before applying.



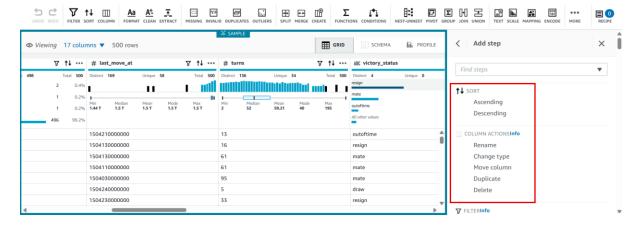
• If you click on the SCHEMA, you get an overview of all the columns.



When you click on the Add Steps under Recipe

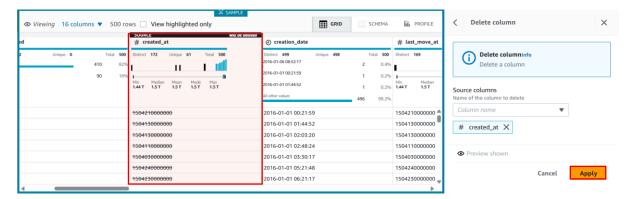


You can perform a lot of action such as delete, move columns etc.

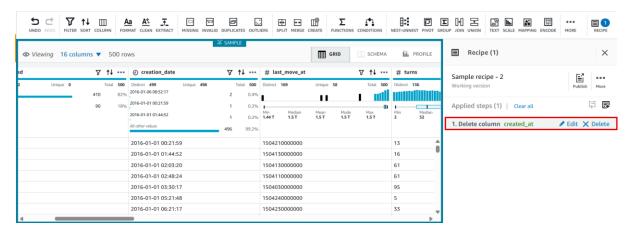


• Let's try to delete and preview the column.

- Here the preview is shown for the 'created_at' column.
- After click on the Apply.



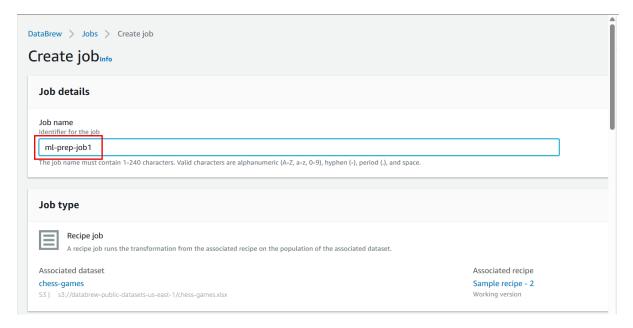
• All transformations are saved as steps in **Recipe**.



• In your project, click Create job.



• Enter a **Job name** (e.g., ml-prep-job1).



- Configure the **Output settings**:
 - o Choose an S3 bucket to store the processed output.
 - Select a file format (e.g., CSV or Parquet).
 - Add compression if needed.
- After all the configurations, you can click on Create and run job

