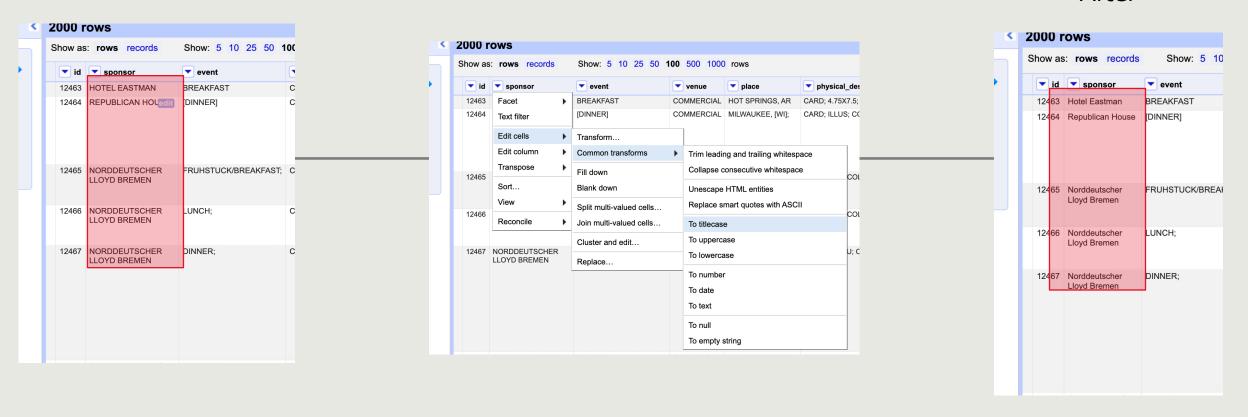


# **Assignment 3 Data Cleaning**

Firdovsi Aliyev (UCID:30178471) Lab B07

### **Common Transformations**

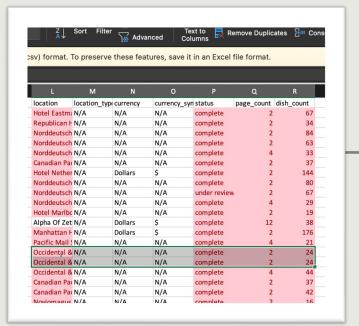
After

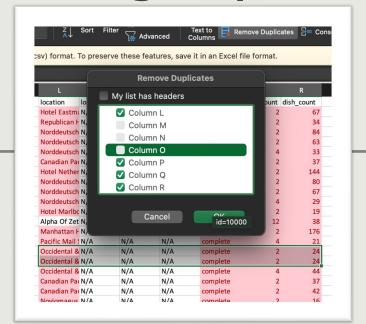


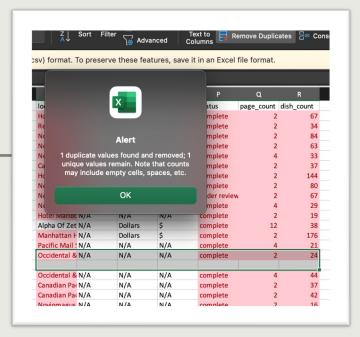
I utilized OpenRefine's data transformation capabilities, applying common methods to ensure uniformity in text case. The objective was to standardize data formatting, resulting in all values being presented consistently in either lowercase or uppercase, which facilitates streamlined data analysis

## **Removing Duplicates**

#### **After**

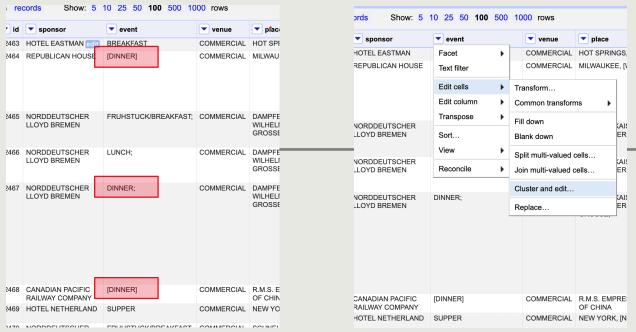




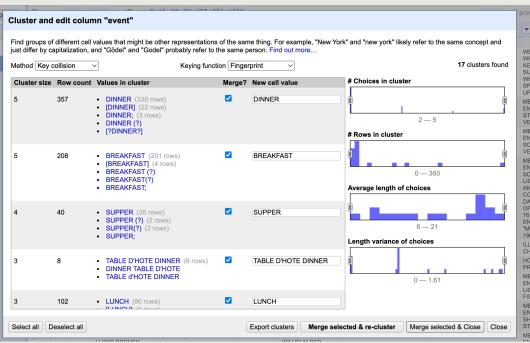


Duplicate data, whether in rows, values, or columns, can hinder data usability. These duplicates, often the result of inadvertent repetition, were removed from the dataset to prevent inaccuracies in analysis. This "Remove Duplicates" process streamlines data analysis, facilitating quicker decision-making and analysis.

## Refining data via Clustering



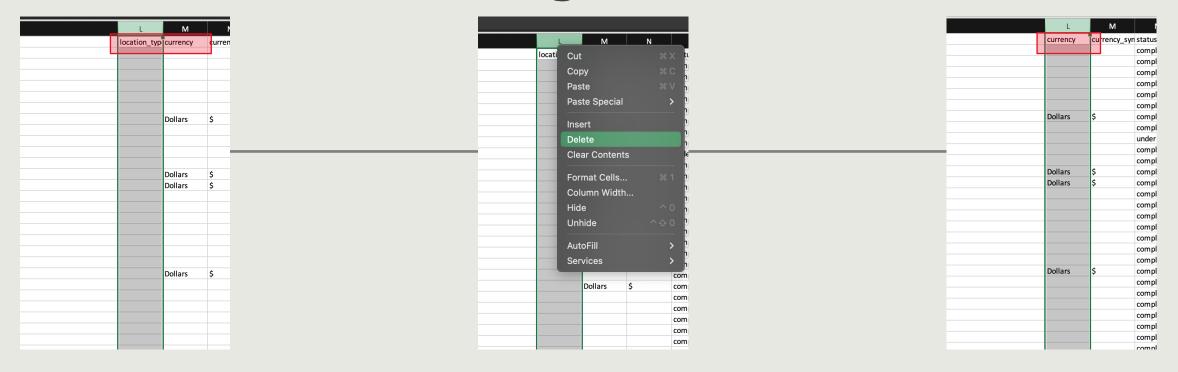
The "Cluster and Edit" functionality in OpenRefine represents a salient capability, facilitating the transformation of nearly identical words into a singular canonical form. This feature harnesses an algorithm to ascertain potential word equivalence. Cleaning these entities is crucial to ensure data accuracy and consistency, eliminating inaccuracies and redundancies. This, in turn, leads to more efficient and reliable data analysis, enabling the extraction of meaningful insights.



🔻 id	▼ sponsor	event	▼ venue	▼ place		
12463	HOTEL EASTMAN	BREAKFAST	COMMERCIAL	HOT SPRINGS, AR	(	
12464	REPUBLICAN HOUSE	DINNER	COMMERCIAL	MILWAUKEE, [WI];	•	After
12465	NORDDEUTSCHER LLOYD BREMEN	FRUHSTUCK- BREAKFAST	COMMERCIAL	DAMPFER KAISER WILHELM DER GROSSE;	(	
12466	NORDDEUTSCHER LLOYD BREMEN	LUNCH	COMMERCIAL	DAMPFER KAISER WILHELM DER GROSSE;	(	
12467	NORDDEUTSCHER LLOYD BREMEN	DINNER	COMMERCIAL	DAMPFER KAIS odit WILHELM DER GROSSE;	1	

## Removing a Column

After



Data cleaning typically employs one or two techniques. In this context, the "location type" column is superfluous as it contains no data. The rationale for removing an empty column is driven by the recognition that this data serves no purpose, and eliminating it enhances the dataset's clarity and efficiency.

## Find and Replace function

Options

Close

After

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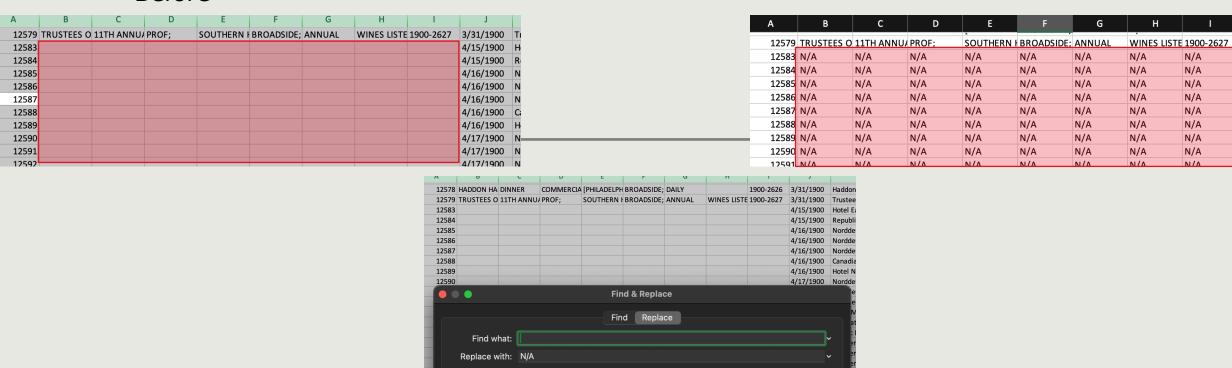
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Find All

Previous

The "Find and Replace" method, an inherent capability of Excel, simplifies the data cleaning and analysis process, ensuring data cleanliness. This technique was selected to promote dataset purity and uniformity, enabling reliable conclusions when analyzing the cleansed data.