

RUBRIC - How to R for Data Cleaning

	1 - Emerging	2 - Approaching	3 - Meeting	4 - Exceeding
Viewing Data	<p>Is familiar with the terms “filtering” and “sorting.”</p> <p>Is not exactly aware of their purpose.</p> <p>Is not comfortable actually adjusting the way they view their data in a program.</p>	<p>Is familiar with the terms “filtering” and “sorting.”</p> <p>Is aware of their purpose.</p> <p>Has awareness of how to use filtering and sorting as tools in viewing their data in a program</p>	<p>Is comfortable using the terms “filtering” and “sorting.”</p> <p>Is aware of their purpose and the ways they are different and the ways they are connected.</p> <p>Is comfortable using filtering and sorting as tools in viewing their data in a program.</p>	<p>Is able to accurately explain terms like “filtering” and “sorting,” while communicating their purpose and the way the terms are interconnected.</p> <p>Is adept at using filtering and sorting as tools in viewing their data in a program.</p>
Reshaping Data: Splitting and Concatenating Columns	<p>Understands what splitting and concatenating are, but is not able to perform the functions themselves.</p> <p>Is not comfortable deciding when to split or concatenate.</p>	<p>Understands splitting and concatenating. Is able to perform these functions in at least one program.</p> <p>Has some idea when to split or concatenate.</p>	<p>Understands splitting and concatenating and is able to perform these functions in multiple programs.</p> <p>Is comfortable deciding when to split or concatenate a column.</p>	<p>Understands splitting and concatenating and is able to perform these functions in all programs. Can explain the process to others.</p> <p>Is comfortable deciding when to split or concatenate a column.</p>
Reshaping Data: Pivoting data attributes	<p>Is familiar with strategies for reshaping data by pivoting (i.e. gathering, spreading)</p> <p>Is not comfortable deciding when a strategy should be used or how to perform it.</p>	<p>Is familiar with strategies for reshaping data by pivoting (gathering or spreading). Is able to perform these functions in at least one program or language.</p> <p>Has a sense of awareness as to when a strategy</p>	<p>Is familiar with – and able to perform – strategies for reshaping data by pivoting (gathering or spreading) in multiple programs or languages.</p> <p>Is comfortable deciding when a strategy should be used and knows how to</p>	<p>Is able to accurately explain the various strategies for reshaping data to others.</p> <p>Is adept at deciding when a strategy should be used and is comfortable performing it.</p>

		should be used but does not know how to perform it.	perform it.	
Importing and Exporting	<p>Is familiar with what it means to import and export a file.</p> <p>Is capable of importing and exporting a file, but not without mangling some data.</p>	<p>Is capable of importing and exporting files in at least one program without mangling the data.</p> <p>Is not comfortable importing or exporting data in all programs.</p> <p>Does not understand how data becomes mangled.</p>	<p>Is capable of importing and exporting files in multiple programs without mangling the data.</p> <p>Understands what it means for data to be mangled and how it can happen.</p>	<p>Is capable of importing and exporting files in all programs without mangling the data.</p> <p>Understands what it means for data to be mangled and how it can happen.</p> <p>Is comfortable explaining the process to others.</p>
Cleaning Data with Tools: Using R	<p>Is familiar with what R is and how it differs from databases and spreadsheets.</p> <p>Is not comfortable writing or executing code in R.</p>	<p>Is familiar with what R is and how it differs from databases and spreadsheets.</p> <p>Is comfortable using basic commands to import and view data in R-Studio.</p> <p>Is not comfortable using commands to create new tables (gathering and spreading data)</p>	<p>Is familiar with what R is and how it differs from databases and spreadsheets.</p> <p>Is comfortable using basic commands to import and view data, and to create new tables by gathering or spreading data.</p> <p>Is not comfortable using plots and exporting data files.</p>	<p>Is able to accurately explain what R is and how it differs from databases and spreadsheets to others</p> <p>Is adept at using basic commands to import and view data, and to create new tables by gathering or spreading data.</p> <p>Is adept at using plots and exporting data files.</p>