STAGE	TASK	Mastery	Approaching Mastery	Progressing	Emerging	Incomplete
Extraction	Extracted atleast two different data source (three or more required for mastery)	2 or more complex data sets from unque sources	2 or more simple data sets from unque sources	2 or more data sets from a single source	Have 1 dataset from one source	
	Extracted the data without errors	No errors encounted	Minor errors in extraction	Several errors (impacts data quality or structure)	Moderate errors in data extraction	
	Sophistication of data extraction	All data extracted with webscraping / APIs	Sourced one dataset via web scraping	Sourced one dataset via API	Downloaded all data sets	
		Bonus: if api or webscrapping used then bonus points would be given				
Transformation	Applied at least 5 data transformations to the data (i. e. aggreation)	Applied 5 or more transofrmations with no errors	Applied 5 or more transofrmations with minor errors	Applied fewer than 5 transformations to the data (correctly or incorrectly)	1-2 transformations (correct or incorrect transformations)	
	Demonstrated basic EDA to check data cleaniness	Complete and thorough EDA to explore all datasets and all major variabes	Comprehensive EDA to explore datasets (may have missed some key variables or methods used may not be appropirate)	EDA did not cover one of the datasets	EDA did not cover one of the datasets (errors present in EDA methodology)	
Load	Successfully integrated all data soucres	All the data in the storage is accessible, correct and formatted properly	Most of the data in the storage is accessible, correct and formatted properly	There are missing data from the data storage is missing	no data is found in the data storage	Submitted project was empty, blank or deemed to incompete -OR- Project contains evidence of academic dishonesty
	Documented the table/collections and it's relation to each other (i.e. provided a schema or ERD, or defined the relationships and table / collection structures)	Provided comprehensive database strucutre documantation (i.e. correct ERD with no logcal errors in schema)	Provided some overview of database strucutre in documantation (i.e. correct ERD with some or minor errors errors in schema accepted)	Provided simple documentation on database schema, strucutre	Basic documenation of database structure	
		Bonus: Provide a Query that demonstrates how to get data from your database				
Deployment	Successfully deployed project to github	Successfully deployed project to github. able to run the file	Successfully deployed project to github. able to run most parts of file	files are available in Git repo but major errors are encountered when running it	Unsuccessfully deployed project to GitHub	
	Git repository included a README	Git repository included a summarised and formatted README	Git repository included a summarised but unformatted README	there is a README file but it is blank or with one or two vaguely written lines	no README file	
	Git repo was clean and well organised	Git repo was clean and well organised. easy to nagivate and no irrelevant files	Git repo was organised. Relatively easy to nagivate and few irrelevant files	Git repo is not very organized. with many folders and has duplicate files	Git repo is unorgranised with files in draft versions	
Report	Clear and succinct project overview - demonstrated value of the proposed ETL process	Have a clear and succinct project overview by demonstrating good value of the proposed ETL process	Demonstrated some value of the proposed ETL process	Little value for the ETL process is seen	No value for the ETL process is seen	
	Documented and described data sources	each data source is specified and with a description of the data	most data sources are specified with a description of the data	some data sources are known with barely any description	the data source is unknown	
	Documented how data was retireved	Comprehensive written explaination of how each data was retrieved	a general written explaination of how data was retrieved	a vaguely written explaination of how data was retrieved	it is unclear how the data was extracted	

	Documented the cleaning, checks and EDA process	Comprehensivewritten explaination of how each cleaning, checks and EDA process was done	a general written explaination of how the cleaning, checks and EDA process was done	a vaguely written explaination of how the cleaning, checks and EDA process was done	no comments on how the cleaning or EDA process was done
	Documented the the tranformations applied to the data - i.e. why they were done and why these transformations add value	Comprehensive explaination for each major transformations applied to the data	an general explaination for transformations applied to the data	a vague comment on why transformation was done	no comments on why transformation was done