



# UNIT TESTING EXPLORATION



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# MODULE 1 - JSON TO CSV CONVERTER

No.	Action	Inputs	Expected Output	Actual Output	Result	Observations
1	No json file in source folder	No file	No conversion	No conversion	Pass	Spark session starts, if condition checks for files and session closes
2	Csv file kept in json folder	Csv file	No conversion	No conversion	Fail	If condition checks for file's extension
3	Rename part-*.csv to required nomenclature	part-*.csv location	zomato_(filedate).csv file in destination location	zomato_(filedate).csv file in destination location	Pass	zomato_*.csv file stored in destination location
4	User quit application using CTRL-Z	CTRL-Z command	Kills App leaves the status_log file as "Running"	Kills App leaves the status_log file as "Running"	Fail	Cannot restart app until status_log file is deleted

# MODULE 2 - LOAD DATA INTO ZOMATO TABLE

No.	Action	Inputs	Expected Output	Actual Output	Result	Observations
1	No csv file in source folder	No file	No data loaded	No data loaded	Pass	Spark session starts, table created if not exists, if condition checks for files and session closes
2	Partition already exists in source location	Csv file	Data loaded into table	Pass	Pass	Already partition exists
3	Partition already not exists in source location	Csv file	Data loaded into table	Data loaded into table	Pass	Check for extension and proceed with loading of data
4	User quit application using CTRL-Z	CTRL-Z command	Kills App leaves the status_log file as “Running”	Kills App leaves the status_log file as “Running”	Fail	Cannot restart app until status_log file is deleted

# MODULE 3 - LOAD DATA INTO ZOMATO SUMMARY

## TABLE FROM ZOMATO TABLE

No.	Action	Inputs	Expected Output	Actual Output	Result	Observations
1	User gives no choice argument in spark-submit	arguments	Manually data loaded	Pass	Pass	Manually data loaded
2	User gives no parameter in spark-submit	No arguments	Historical data loaded	Pass	Pass	Application checks for length of arguments to work with user option choice
3	Summary table doesn't exist	Historical arguments	Data loaded into table	Data loaded into table	Pass	Table created if not exists
4	User quit application using CTRL-Z	CTRL-Z command	Kills App leaves the status_log file as "Running"	Kills App leaves the status_log file as "Running"	Fail	Cannot restart app until status_log file is deleted

# Wrapper Shell Script

No.	Action	Inputs	Expected Output	Actual Output	Result	Observations
1	Passing argument to the spark submit command	Wrong/no Argument	Usage function gets printed specifying the correct choices	Usage function gets printed specifying the correct choices	Pass	Usage function will help the user in choosing the correct option
2	Passing the right option to the wrapper script	Right argument	Modules get executed followed by purge	Modules get executed followed by purge	Pass	Included a condition to delete only last 7 days of log not including the current day, leaving 1 days logs behind for reference of the user