Requires Changes

**1 SPECIFICATION REQUIRES CHANGES**

You’ve made a great effort in your work in the project! Your submission needs some effort from your side in terms of meeting specifications, there are a few issues that need to be revised before the project can pass all rubric points. See below for some suggestions on revisions that can be made for your next project submission!

**ETL**

**The script, etl.py, runs in the terminal without errors. The script reads song\_data and load\_data from S3, transforms them to create five different tables, and writes them to partitioned parquet files in table directories on S3.**

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**Each of the five tables are written to parquet files in a separate analytics directory on S3. Each table has its own folder within the directory. Songs table files are partitioned by year and then artist. Time table files are partitioned by year and month. Songplays table files are partitioned by year and month.**

Please find the review comments in the code review section.

**Each table includes the right columns and data types. Duplicates are addressed where appropriate.**

Correct columns and datatypes are used for each table. Great job dropping duplicates where appropriate! To make this even better, consider how you’d want to handle duplicate entries with the same id but different values for other columns. For example, two user entries with the same information except for the level? This could happen when a user upgrades from a free to a paid level. Would you want to keep both entries or just the one with the most recently updated level?

**Code Quality**

**The README file includes a summary of the project, how to run the Python scripts, and an explanation of the files in the repository. Comments are used effectively and each function has a docstring.**

Great job including information on the project, instructions, and files in your README file! Consider adding some examples in your README to demonstrate the use of your data lake. You can add code blocks or images that show example queries and results that the analytics team would find useful. Great job with your clear and concise docstrings and comments!

**Scripts have an intuitive, easy-to-follow structure with code separated into logical functions. Naming for variables and functions follows the PEP8 style guidelines.**

Code follows an organized l and clear variable and function names are used.

