



## PROJECT SPECIFICATION

## Data Warehouse

## Table Creation

CRITERIA	MEETS SPECIFICATIONS
Table creation script runs without errors.	The script, <code>create_tables.py</code> , runs in the terminal without errors. The script successfully connects to the Sparkify database, drops any tables if they exist, and creates the tables.
Staging tables are properly defined.	CREATE statements in <code>sql_queries.py</code> specify all columns for both the songs and logs staging tables with the right data types and conditions.
Fact and dimensional tables for a star schema are properly defined.	CREATE statements in <code>sql_queries.py</code> specify all columns for each of the five tables with the right data types and conditions.

## ETL

CRITERIA	MEETS SPECIFICATIONS
ETL script runs without errors.	The script, <code>etl.py</code> , runs in the terminal without errors. The script connects to the Sparkify redshift database, loads <code>log_data</code> and <code>song_data</code> into staging tables, and transforms them into the five tables.
ETL script properly processes transformations in Python.	INSERT statements are correctly written for each table and handles duplicate records where appropriate. Both staging tables are used to insert data into the songplays table.

### Code Quality

CRITERIA	MEETS SPECIFICATIONS
The project shows proper use of documentation.	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.
The project code is clean and modular.	Scripts have an intuitive, easy-to-follow structure with code separated into logical functions. Naming for variables and functions follows the PEP8 style guidelines.

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## Suggestions to Make Your Project Stand Out!

- Add data quality checks
  - Create a dashboard for analytic queries on your new database
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