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Data Modeling with Postgres

REVIEW
CODE REVIEW
HISTORY

Meets Specifications

Congratulations on completing the **Data Modeling with Postgres** project. You have demonstrated a significant understanding of table design in Postgres. The script ran without any errors updating the final tables as specified. Keep up the good work.

Here are some good articles on the database schema:

- What is a Database Schema What are your database diagram needs?
 https://www.lucidchart.com/pages/database-diagram/database-schema
- Instance and schema in DBMS https://beginnersbook.com/2015/04/instance-and-schema-in-dbms/
- Database Normalization (Explained in Simple English) https://www.essentialsql.com/get-ready-to-learn-sql-database-normalization-explained-in-simple-english/

Table Creation

The script, create_tables.py , runs in the terminal without errors. The script successfully connects to the Sparkify database, drops any tables if they exist, and creates the tables.

• The script ran without any errors creating tables, dropping them if it already exists.

COHUILIONS.

You can implement NOT NULL constraint on the foreign keys in the CREATE statements. However, please be careful with this implementation when you implement the INSERT functions (see rubric "ETL script properly processes transformations in Python") since the dataset contains some null values.

- PRIMARY KEYs and NOT NULLs specified appropriately.
- Appropriate data types used.

ETL

The script, etl.py, runs in the terminal without errors. The script connects to the Sparkify database, extracts and processes the log_data and song_data, and loads data into the five tables.

Since this is a subset of the much larger dataset, the solution dataset will only have 1 row with values for value containing ID for both songid and artistid in the fact table. Those are the only 2 values that the query in the sql_queries.py will return that are not-NONE. The rest of the rows will have NONE values for those two variables.

It's okay if there are some null values for song titles and artist names in the songplays table. There is only 1 actual row that will have a songid and an artistid.

• The ETL script ran without errors updating the final tables.

INSERT statements are correctly written for each table, and handle existing records where appropriate. songs and artists tables are used to retrieve the correct information for the songplays INSERT.

- Nice job updating the level column for users table for the existing records. Users might change from 'free' to 'paid' and vice versa.
- For the rest of the tables, artists, songs, time, ON CONFLICT DO NOTHING is fine.

Code Quality

- Create a README file with the following information:
 - a summary of the project
 - how to run the Python scripts
 - an explanation of the files in the repository
- | DOCSTRING | statements have been added in each function in etl.py file to describe what each function does.

README

Good job with the well-structured and detailed README. A nice README is a great way to showcase your project to potential employers. Suggestions:

• Refer good READMEs on web:

https://github.com/matiassingers/awesome-readme

https://bulldogjob.com/news/449-how-to-write-a-good-readme-for-your-github-project

https://medium.com/@meakaakka/a-beginners-guide-to-writing-a-kickass-readme-7ac01da88ab3

✓ Docstrings.

Nice job adding docstrings. The docstrings are essential in describing what a function does. It's not just going to help you understand and maintain your code. It will also make you a better job candidate.

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

- The code mostly follows the PEP8 style guide
- The SQL statements are well-formatted.

Here's an excellent guide on writing beautiful Python code with PEP8: https://realpython.com/python-pep8/

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