Schema for Song Play Analysis

Using the song and log datasets, you'll need to create a star schema optimized fo analysis. This includes the following tables.

Fact Table

1. **songplays** - records in log data associated with song plays i.e. records with p
    - *songplay_id, start_time, user_id, level, song_id, artist_id, session_id, location*

Dimension Tables

2. **users** - users in the app
    - *user_id, first_name, last_name, gender, level*
3. **songs** - songs in music database
    - *song_id, title, artist_id, year, duration*
4. **artists** - artists in music database
    - *artist_id, name, location, lattitude, longitude*
5. **time** - timestamps of records in **songplays** broken down into specific units
    - *start_time, hour, day, week, month, year, weekday*

Project Template

To get started with the project, go to the workspace on the next page, where you' template files. You can work on your project and submit your work through this w Alternatively, you can download the project template files from the Resources fol develop your project locally.

In addition to the data files, the project workspace includes six files:

1. `test.ipynb` displays the first few rows of each table to let you check your da
2. `create_tables.py` drops and creates your tables. You run this file to reset y time you run your ETL scripts.
3. `etl.ipynb` reads and processes a single file from `song_data` and `log_data` into your tables. This notebook contains detailed instructions on the ETL pro tables.
4. `etl.py` reads and processes files from `song_data` and `log_data` and loads tables. You can fill this out based on your work in the ETL notebook.
5. `sql_queries.py` contains all your sql queries, and is imported into the last tl
6. `README.md` provides discussion on your project.

Project Steps

Below are steps you can follow to complete the project:

Create Tables

1. Write `CREATE` statements in `sql_queries.py` to create each table.
2. Write `DROP` statements in `sql_queries.py` to drop each table if it exists.
3. Run `create_tables.py` to create your database and tables.