

# README.md

## Database Average Ratings per Genre

This Python script demonstrates the calculation of average ratings per genre from a MySQL database. The script connects to the database using the `mysql-connector`, performs the calculation through both a stored procedure and a direct Python function, and measures the execution time for comparison.

## Prerequisites

Before running the script, make sure you have the following installed:

- Python 3.x
- MySQL Server
- `mysql-connector` Python package (install using `pip install mysql-connector`)

## Configuration

1. Create a MySQL database and tables `SeriesGenre` and `tvSeries` with appropriate columns.
2. Update the `connectorConfig.json` file with your MySQL connection details.

## Usage

1. Run the script by executing the following command:

```
```bash
python script_name.py
```
```

2. The script will:

- Connect to the MySQL database.
- Optionally, create a stored procedure (`GetAvgRatingsPerGenre`) for calculating average ratings per genre.
- Calculate average ratings per genre using both the stored procedure and a direct Python function.
- Display the results and execution time for both methods.

## Important Notes

- Uncomment the `createAvgProcedure(conn)` line in the `main()` function if you want to create the stored procedure before calculating average ratings.
- Ensure that your MySQL server is running and accessible before executing the script.