Name: Freddy Khant
Student ID: 20618166
Lab Group: Wed 4PM

User Guide

1. Introduction
This guide provides a step-by-step walkthrough for implementing and using the FIFA
Women's World Cup Database in a MySQL server on Ubuntu. By following these
instructions, users can successfully set up the database, insert sample data, and
run predefined queries.

2. Prerequisites
Operating System: Ubuntu (or any Linux distribution).
MySQL Server: Ensure you have MySQL Server installed.
Python : Required if you intend to connect to the database programmatically.

3.2. Access MySQL
Access MySQL using the terminal with the given credentials:
mysql -u me -p
Then proceed to enter user password.

3.3. Run the Script
Once in the MySQL shell, run the SQL script provided (fwc_db.sql). First, navigate
to the directory where your SQL file is located, then run:
source fwc_create_database.sql

3.4. Verify Creation
To verify, use the following command:
SHOW DATABASES;
then switch into the database using:
USE FIFAWorldCup_20618166;

3.5 Run Scripts for Creating Tables and Inserting Values
To create the tables, run the script:

source fwc_create_tables.sql

To insert values into the tables, run the script:

source fwc_insert_values.sql

After this is done, the tables should be loaded correctly.

3.6 Run Scripts for Queries, Creating Stored Procedures, Triggers, and Views
source fwc_queries.sql
source fwc_create_stored_procedures.sql
source fwc_create_triggers.sql
source fwc_create_views.sql

4. Running Python Code to Interact with the Database
4.1. Install Python and Required Libraries
Before running the Python code, ensure you have Python3 installed. If not, you can
install it using the following commands:

```
sudo apt update
sudo apt install python3 python3-pip
```

Next, install the mysql-connector-python library, which allows Python to connect to
MySQL:

```
pip3 install mysql-connector-python==8.0.6
```

We use version 8.0.6 since it the latest one compatible with Python 3.6.9

4.2. Execute the Python Script
Navigate to the directory where you saved the Python script and run the following
command:

```
python3 database_interaction.py
```

This command will execute the Python script, which connects to the database, runs
the predefined queries, and demonstrates CRUD operations.

4.3. View Output
After executing the script, you should see the results of the queries printed in
the terminal. The script will also provide feedback on the CRUD operations,
indicating successful insertion, updating, and deletion of sample data.

5. Conclusion
By following this guide, you have successfully set up the FIFA Women's World Cup
Database, populated it with sample data, and interacted with it using both SQL
scripts and a Python program. You can now use this setup as a foundation for
further exploration and analysis of the data.

This section provides a comprehensive guide on how to run the Python code in an
Ubuntu environment, ensuring that even users unfamiliar with Python can follow
along and execute the script.