

N-events organization DBMS

I/ Description:

- This program is a prototype; therefore, it is running on the local server. It can connect to the remote server by changing the address of connection. To testing the program, users must run the SQL file on their machine, then the python file.
- Ideas:

N-events is a non-profit organization belonged to the Student Society of NEU (the Vietnamese National Economics University), where I had participated for around three years. In 10 years in operation, N-events club has more than 500 members, and runs at least 4-6 campaigns each year. Nevertheless, it never had a proper program to help with storing and analyzing the database. After taking the course CSC 370 – Database System in the University of Victoria, I want to create one for my organization, and it is an opportunity to practise my ability in DBMS.

Page: <https://www.facebook.com/Nevents.neu>

II/ Contents:

1) E-R diagram:

- Diagram modelling the entities, relationships and constraints

2) sql_project.sql:

- Version: PostgreSQL 10
- Construct the table schemas corresponding to relations with appropriate key, foreign-key and attribute constraints

Author: Viet Dung Le

Github: <https://github.com/dungzle>

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- Create trigger to allow some automatic operations – improving data integrity
- Create index to process to the data more efficiently in the long run
- Add sample data to the database

3) sql_project.py:

- Version: Python3 (Psycopg2, RegEx, Tabulate)
- Allow users to interact with the database: insert/update/view data, create a report.
- Properly handle exceptions and the failure of system during each access