**Đề kiểm tra nội dung về SQL**

Cấu trúc : Đề có tổng cộng **6 câu**

- 3 câu đầu kiểm tra về các lệnh DDL : CREATE, ALTER, ADD

- 3 câu sau kiểm tra về các lệnh DML : SELECT, JOIN, GROUP BY

Nội dung đề sẽ được trình bày 100% tiếng Anh cho các câu hỏi

**DDL Testing Section (3 questions)**

**Quest 1**: Create database with name "DEVER\_TEST\_SQL". In this database, we will create 1 table for storing database

Table "Customer" : To store [CustomerID, full name, email, phoneNumber, gender]

* CustomerID is PRIMARY KEY
* full name, email, phoneNumber, gender is NOT NULL
* gender as BOOLEAN datatype

**Quest 2**: From the above database, using ALTER commands to add following constraint

- Table "Customer" :

* Email as UNIQUE
* Email must contain '@' character in the middle, Ex: mail@com
* phoneNumber must start with 0 and contains only numeric characters

**Quest 3**:

Insert following rows into table Customer

1st : INSERT INTO Customer VALUES (1, "Nguyen Van A", "vana@mail.com", "0907888478", true);

2nd : INSERT INTO Customer VALUES (2, "Nguyen Van Be", "vanbe@mail.com", "1907888433", false);

3rd : INSERT INTO Customer VALUES (3, "Nguyen Van A", "hollmail.com", "0907883333", true);

**If your database design correctly**, The insert is **success only with the 1st** insert statement

**DML Testing Section**

Using dvdrental database from the link: <https://www.postgresqltutorial.com/postgresql-getting-started/postgresql-sample-database/>

**Quest 1** (Easy): Show the total numbers of city of the top 10 country in the list order by country\_id

**Quest 2** (Medium): List top 5 films a customer with customer\_id = 3 has rented, sorted by film\_id

* The information about the film must only include : film\_id, title, rating, release\_year

**Quest 3** (Medium): List all customers that has country\_id = 3;