Assignment 1 – PostgreSQL Basics (Homecare Database)

General Guidelines

- Use snake_case naming convention for all database objects.
- Primary keys must be UUID.
- Use PostgreSQL SQL syntax.
- Follow proper auditing practices.

1. Database Creation
   a. Create a PostgreSQL database named homecare_db.
2. Schema Creation
   a. Create a schema named hc inside the homecare_db database.
3. Users Table
   a. Create a users table with the following fields:
      i. user_id (UUID, Primary Key)
      ii. first_name
      iii. last_name
      iv. email
      v. password (encrypted)
      vi. created_by (user_id)
      vii. created_date
      viii. modified_by (user_id)
      ix. modified_date
      x. is_active
      xi. is_deleted
      xii. birth_date
      xiii. address
      xiv. mobile_number
4. Data Insertion
   a. Insert at least 10 user records with unique email addresses.
5. SQL Queries
   a. Write SQL queries for the following requirements:
      i. Fetch all users
      ii. Fetch only user name (first_name + last_name) and email
      iii. Fetch only inactive users
      iv. Users whose first_name starts with 'A' and last_name ends with 'i'

v. Users whose email contains '@example'
vi. Case-insensitive search for first_name starting with 'A'
vii. Users ordered by created_date (descending)
viii. Top 5 latest created users
ix. Second page of results (5 records per page)