

Assignment 2

Part 1: Physical Database Design (2.5 marks)

A- Implementing the database (2 marks)

You have to implement your database, based on your assigned topic, into the physical database.

- Giving the full explanation of your choices of data types, data length, and constraints in your database.

B- Insert data (0.5 mark)

- Insert data for all tables in the database.
- Requirements: The data in the tables must be meaningful, and each table has at least 4 rows.

Part 2: Store Procedure / Function / SQL (3 marks)

a. Increase Inpatient Fee to 10% for all the current inpatients who are admitted to hospital from 01/09/2020. (0.5 mark)

b. Select all the patients (outpatient & inpatient) of the doctor named 'Nguyen Van A'. (0.5 mark)

c. Write a function to calculate the total medication price a patient has to pay for each treatment or examination (1 mark).

Input: Patient ID

Output: A list of payment of each treatment or examination

d. Write a procedure to sort the doctor in increasing number of patients he/she takes care in a period of time (1 mark).

Input: Start date, End date

Output: A list of sorting doctors.