

ASSIGNMENT 3

Define the following XQuery functions in an XQuery program, that tests these functions on sample input data. Provide a report that includes both the sample input data and output data:

1. The first function takes 2 arguments, patient id and database, and later results the list the treatment records of that patient.
2. The second function takes 2 arguments, patient id and database, and later results list of drugs that patient takes.
3. The third function list all the treatment records of the database that was passed as an argument to the function.
4. The fourth function gives each provider information which is in the database passed as argument.
5. The fifth function gives the details of patients and their treatment who are receiving a specific drug.

The database named “instance1.xml” is the sample data of the previous assignment. It lists 5 patient records, and 3 provider records. The relationship between patient and provider is many to many, that means each patient can have multiple providers and vice versa.

There are 5 different functions which are called in five different programs individually. These functions are defined in a single module program called “solutions.xq” which is the main module. All the functions defined in this module are called in their respective programs. They are allowed to call by importing this module to their programs.

The root folder contains this pdf named “README.pdf” and the video file named “video.mp4”. The XML sample data named “instance1.xml”

is in subfolder named “files” along with 6 the “.xq” files named {solutions.xq, testing1.xq, testing2.xq, testing3.xq, testing4.xq, testing5.xq} There is also a screenshots sub folder in root folder which contains all the screenshots of the results.