

# Assignment 12

Course- CS 548

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Design the CQL data model for a medical information system. You should provide the schema definition, as a CQL script that defines a data model in a single keyspace, as well as instance data that demonstrates the use of the data model in a Cassandra system.

1. In this assignment, I have created 4 main tables in NoSQL for a medical information system and 3 treatment types (user defined). To do that, first I've created a keyspace "cs548" through which I can access my database tables.
2. Further through, I created 4 tables, Patient, Provider, Treatment\_patient and Treatment\_provider.
3. In addition, there are 3 different types of treatment, Drug Treatment, Radiology, and Surgery.
4. Drug Treatment contains Drug Name and Dosage value; Radiology contains Radiology Dates as date value. To add the feature of having multiple dates, I defined Radiology Treatment in the class as List, through which I can store multiple radiology date values, and in Surgery, there is surgery Date and surgery form.
5. In my demonstration video, I've ran queries through dev center by connecting the center to Cassandra and running the queries against it.
6. I inserted the sample data into the tables, and also displayed those data in the video.

## **In this submission zip archive-**

In the root folder, there is README.pdf, CQL Script, and the video. The CQL Script is named "script" and the video is named "video".