

## Explanation of insertRecords.py

insertRecords.py is used to write insert statements into a .sql file, which can then be used to load a large amount of synthetic data into the Hospital Schema.

This is a python script and it works by writing strings with dynamically obtained values into the sql file. Some of the values which are random but have a set of fixed values, are stored in a list. A random value from each of these lists are used to make entries. For eg: the designations of employees are always from a given list, as are the specializations and the names of a department.

Values like names of people, medicines, dosages and address are completely random string. Entries into all tables are made within the same for loop. This is because there are a lot of referential constraints within the schema and it's a lot easier to keep track of the values if they are entered in the same iteration.

The program iterates over employees, products and patients 500 times. It further iterates visitations and batch iterations five times bringing the total number of values in these tables to about 2500. Certain tables, such as shift and department are very small in size, which is expected as they have only few values. In addition there subclasses such as physician and medicine, which are subsets of the employee and product relations with specialization.