**For Books\_dataset**

 i have 6 departments(CSE,CIVIL,ECE,EEE,IT,MECH), each department has 4 years(Y1,Y2,Y3,Y4), each year has 10 subjects(S1,S2,S3,S4,S5,S6,S7,S8,S9,S10), each subject has 4 editions(E1,E2,E3,E4). using python data synthsizer generate a data with columns as book\_id,ISBN, book\_title(use department, year,subject,edition to generate), author, publisher.

There should be 960 books so i want 960 records and for book\_id start with starts with BK generate sequentially not randomly

**For Book\_copies**

similarly, generate book copies table with the columns copy\_id(starts with CP and generate sequencial), book\_id(BK001 to BK960 and generate sequential), copy\_number(starts with copy(1-30) and generate sequential), copy\_condition(good, damaged,lost), Rack\_ location ( L1,L2,L3,L4,L5,L6, if the "copy\_condition" has value as "damaged" then L7 and if the "copy\_condition" has value as "lost" the NaN), rack\_number(starts with R(1-26), if "copy\_condition" column has a value as "damaged" then start with D(1-4) and if "copy\_condition" column has a value as lost then "NaN"), shelf\_number(starts with the value of rack\_number, SH(1-6) and if the "copy\_condition" column has value as "lost" then "NaN"),, status(if "copy\_condition" column has a value as "lost" then the "status" column has to show "not Available", if "copy\_condition" column has a value as "damaged" then the "status" column has to show "D-rack" else "Available"). there are 960 books, each book has 30 copies so 960 X 30 = 28800 records. Each book has 30 copies in that 3 to 6 copies are damaged so the value in copy\_condition should show "damaged" and 1 to 3 copies are lost so, the value in the copy\_condition column should show "lost".