



Progeny Clinical
Sample Database Growth Projection

I. Requirements and Database Definition

A. This document is designed to project the growth of an average Progeny Clinical database over a five (5) year term. The growth model used in this document assumes a null Year 0 patient load (no previous data to import), a Year 1 starting patient load of 3,000 individuals and an annual patient increase of 10% each year for Years 2-5.

B. The database used for this test contains 126 fields, broken into the following types:

1. Text: 22 fields, each with 250 words of Ipsum Lorem generated text
2. Number: 19 fields, each with 10 characters
3. Date: 14 fields, each with a single date
4. Dropdown: 60 fields, each with a single option chosen
5. Calculated: 6 fields, no data stored in these fields
6. Hyperlink: 1 field, with 250 words of Ipsum Lorem generated text
7. Table: 3 fields, no data stored
8. Summary: 1 field, no data stored

II. Growth Findings

A. A template individual was created with the above data then replicated 18,315 times. These individuals were imported into the database in groups with the number corresponding to the projected growth for their assigned year.

B. The following table shows the growth projections for this five (5) year term:

Year 0: Initial Size (Fields Only)	Year 3: +3,630 Individuals
DB: 6,112 kb	DB: 260,360 kb
Log: 576 kb	Log: 223,552 kb
Combined Size: 6.53 MB	Combined Size: 472.57 MB
Year 1: +3,000 Individuals	Year 4: +3,993 Individuals
DB: 83,480 kb	DB: 365,616 kb
Log: 98,432 kb	Log: 307,392 kb
Combined Size: 177.65 MB	Combined Size: 657.23 MB
Year 2: +3,300 Individuals	Year 5: +4,392 Individuals
DB: 168,584 kb	DB: 475,992 kb
Log: 144,128 kb	Log: 391,552 kb
Combined Size: 305.38 MB	Combined Size: 847.21 MB