PART 1- Pick 3 tables and propose the size of these tables following the steps shown in slides. Calculate the avg length of rows for each of these 3 tables, estimate the number of records for each table in 3 months and 12 months time.

Avg. Row Length = SUM(all NOT NULL column lengths) + ½\* SUM( all NULLABLE column lengths)

As all columns in all the tables that we have created are NOT NULL (i.e. there isn’t any nullable column in any of our tables), SUM( all NULLABLE column lengths) = 0.

Therefore,

Avg. Row Length = SUM(all NOT NULL column lengths)

* For Table named “﻿***Courses***”
  + A screenshot of a cell phone

    Description automatically generated
  + A screenshot of text

    Description automatically generated
  + Avg. Row Length = 4+4+3+4+7+100+100 = 222
* For Table named “﻿***Classes***”
  + A screenshot of a cell phone

    Description automatically generated
  + A close up of text on a white background

    Description automatically generated
  + Avg. Row Length = 22+3+4+11+11+1+1+1+1+1+100 = 156
* For Table named “﻿***Instructors***”
  + A screenshot of a cell phone

    Description automatically generated
  + A picture containing knife

    Description automatically generated
  + Avg. Row Length = 22+100 = 122
* For Table named “﻿***﻿Class\_Course\_Infos***”
  + A screenshot of a cell phone

    Description automatically generated
  + A screenshot of text

    Description automatically generated
  + Avg. Row Length = 22+4+4+3+3 = 36
* For Table named “﻿***﻿Class\_Instructor\_Infos***”
  + A screenshot of a cell phone

    Description automatically generated
  + A screenshot of text

    Description automatically generated
  + Avg. Row Length = 22+4+4+2 = 32

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table Name | Initial #of rows | #of rows in 3 months | #of rows in a year | Avg. length |
| Table A |  |  |  |  |
| Table B |  |  |  |  |
| Table C |  |  |  |  |