**Mortality Table (life table)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **x** | **lx** | **dx** | **qx** | **px** | ex |  |
| 0 | **100000** | 1000 | 0.01 | 0.99 |  |  |
| 1 | 99000 | 2000 | 0.02 | 0.98 |  |  |
| 2 | 97000 | 3000 | 0.03 | 0.97 |  |  |
| 3 | 94000 |  |  |  |  |  |
| 4 | 92000 |  |  |  |  |  |
| . |  |  |  |  |  |  |
| . |  |  |  |  |  |  |
| . |  |  |  |  |  |  |
| 99 = **w -1** | 7 | 7 |  |  |  |  |
| 100 = **w سيجما =100** | 0 | 0 |  |  |  |  |

ex =

ex

 **L**

 **x+1**

 **1 - lx ,** **l**x+1 , **l**x+2 , **l**x+3 **l**w

 **dx ,** **d**x+1 , **d**x+2 , **d**x+3 **d**w

 **dx = lx -** **l**x+1

qx = dx / lx

qx + px = 1

 qx = 1- px px = 1- qx

 **px = lx+1 / lx**

**l45= p44\*l44**