risk management and insurance

Life Tables

Mehrab Atighi

SUMMARY

What is life tables?

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Why we need to life tables?

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Two life table

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Iran life table(ILT1400)

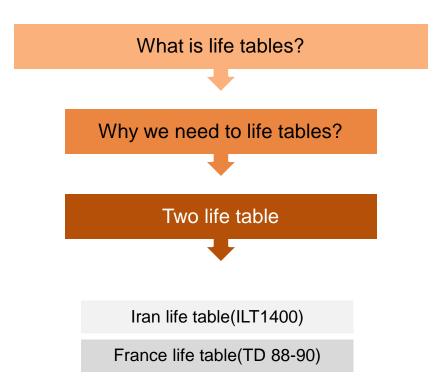France life table(TD 88-90)

Important Definitions

We need to these definition for understanding the life tables.

$$_t p_x$$

- is the probability that *a person with age x,* survives to at least age $x + t$

$$_t q_x$$

- is the probability that a person with age x, dies before age $x+t$

$$_t l_x$$

- Number of lives persons with age in this interval = (x , x+t)

$$_t d_x$$

- Number of death at ages in this interval = (x , x+t)

History of life tables

who finds it for the first time?

- To two Fellows of the Society, John Graunt (elected 1663) and Edmond Halley (elected 1678), the world owes the invention of that powerful vital-statistical instrument, the life table or table of mortality, but the respective shares of these men in the discovery is a matter of dispute.

An image of life tables and some plots.

- Click here for the first life table
- Click for Iran and France life tables
- Click here for showing the Plots

End

Thanks For Youre Attention