Summary over view

Create Scenarios:

Use Transform > Compute Variable to create new variables representing changes in socio-economic factors (e.g., increased GDP, decreased mortality).

Predict Life Expectancy:

Use the regression equation from Step 2 to predict life expectancy under different scenarios.

Compare these predictions to understand the impact of changes.

Validate the Model

Compare Predicted and Actual Values:

Use Graphs > Legacy Dialogs > Scatter/Dot to create a scatter plot comparing predicted and actual life expectancy values.

Perform Sensitivity Analysis:

Step-by-Step Guide to Validating Your Model and Performing Sensitivity Analysis

1. Validate Your Model

a. Predict Life Expectancy Values:

Use the regression equation obtained from your analysis to calculate predicted life expectancy values.

Go to Transform > Compute Variable... and create a new variable (e.g., Predicted\_Life\_Expectancy) using the regression equation.

b. Compare Predicted and Actual Values:

Create a scatter plot to compare predicted and actual life expectancy values.

Go to Graphs > Legacy Dialogs > Scatter/Dot.

Choose Simple Scatter and click Define.

Set Actual Life Expectancy as the Y-axis and Predicted\_Life\_Expectancy as the X-axis.

Summary of Model Validation:

Include scatter plots and residual analysis.

Discuss the fit of the model and any patterns observed in the residuals.

Sensitivity Analysis Outcomes:

Summarize the impact of changes in socio-economic factors on life expectancy.

Highlight which factors have the most significant influence.

Policy Implications:

Based on your findings, provide recommendations for public health policies.

For example, policies aimed at increasing GDP or reducing adult mortality could significantly improve life expectancy.