## Typical Seismic Unix Commands for Indexing

## 🔹 suximage

## Displays seismic data as an X-window image. Useful for viewing seismic traces visually.🔹 suxwigb

Creates a wiggle trace plot of seismic data. Commonly used to visualize seismic lines.

## 🔹 sufilter

Applies frequency filters to seismic traces (e.g., bandpass filters).

## 🔹 sugain

## Applies gain to traces to enhance weaker signals.

## 🔹 sumute

Removes parts of seismic traces based on time or offset. Useful for data cleanup.

## 🔹 sustack

Stacks traces by a key (e.g., CDP number). Used to enhance signal-to-noise ratio.

## 🔹 suvelan

Performs velocity analysis using semblance. Crucial step before migration.

## 🔹 suinterp

## Interpolates missing traces.

## 🔹 sushw

## Sets or modifies seismic trace headers.

## 🔹 suwind

## Windows (filters or cuts) seismic datasets by time, trace number, or header values.

## 🔹 suxmovie

## Creates a movie-like visualization of seismic lines for quick QC.

## 🔹 sufdmod2

## Finite-difference modeling in 2D to simulate wave propagation.

## 🔹 sufdmod1

## 1D finite-difference modeling – simple and fast for quick simulations.

## 🔹 suconv

## Convolves traces with a wavelet. Simulates seismic system response.

## 🔹 sugain tpow=2

Applies time-dependent gain (t^2) to improve late-time amplitude visibility.