

- -> notebooks from this lecture: <https://github.com/ine-rmotr-curriculum/FreeCodeCamp-Pandas-Real-Life-Example>
- -> **reshaping the data and deriving it from other columns**
- -> **reshaping the data**
 - -> we have data, and we want to reshape it
 - -> you can do this in Python a lot faster than you can in Excel <- dragging a column down compared to running a cell
 - -> plots can also be created a lot faster
- -> calculations can also be performed in Python using functions compared to Excel
- -> regression plot
- -> **cost / loss profits**
 - -> calculated revenues
 - -> you can add 3% to all of the prices (performing price increases)
- -> **quick filtering**
 - -> you can get all the sales from a certain state
 - -> filtering options in Python
 - -> getting the average revenue from a group -> he's doing examples where he's applying one equation to a group of data
- -> **using a Sakila database**
 - -> reading data from an SQL database
 - -> pronounced 'sequel'
- -> **loading data**
 - -> pulling the data from the database
 - -> MySQL
 - -> converting the outside data into a data frame
 - -> checking the shape / information / description of the data
 - -> you can also calculate the rental rate
 - -> the rentals being divided into three main categories
- -> **creating graphs**
 - -> you can create pie charts
- -> **column wrangling**
 - -> you can perform equations on the entire set of data in Python -> depending on the data you have
 - -> this can be used to analyse the mean and median of it
 - -> selection and indexing
 - -> this can be performed per city / state / category
 - -> you can see which films (in this example) have the highest replacement cost
 - -> we can use Python to filter the data
 - -> cleaning / reshaping data, creating new accounts
 - -> this can also be used to perform linear regressions
- -> **next**
 - -> Jupyter notebooks
 - -> numpy
 - -> seaborn
 - -> matplotlib
- -> **question**
 - What does the loc method allow you to do?
 - Retrieve a subset of rows and columns by supplying integer-location arguments.
 - Access a group of rows and columns by supplying label(s) arguments. <- This one
 - Returns the first n rows based on the integer argument supplied.