

## Data Analysis with Pandas

### \* Project Exercise with Python and MySQL:-

Previously we have build an Application that gives meaning to the word we enter manually. but it also has a drawback as we were using json file over there. The json file is too big and requires to be loaded before writing body of the program. This causes some difficulty in the App.

This time the data will be stored in the database. In that the data has two columns in which Every word has a definition. This Requires a libraries which can be Installed With `pip3 mysql`. Then the connection is Established.

More sql statement's Include

- \* Get all Rows Where the value of the column Expression starts with 'S'.
- \* Get all Rows where the value of the column Expression starts with 'a'.
- \* All Rows Where the length of the value of the column expression is less than 4 characters.
- \* All rows where the length of the value of the column Expression is four characters.

### Data Analysis With pandas:-

- \* It's a very Important Library in python.
- \* It gives a data Analysis tool ~~using~~ python. It Allow's different sources to load into python code.
- \* Installation of pandas can be done using pip that is `pip3 Install pandas`.
- \* using this command, we can Install pandas on our system.

Here Jupyter Notebook Which Works through the Terminal and Include the python Notebooks. It is very much useful when we are working with data which is to Explore the data.

The pip Install jupyter will Install Jupyter through command prompt. We will get an Empty Notebook, where we will code.

The other operation we also taught like

- \* Loading text files (i.e., txt)
- \* Loading csv files.
- \* Loading excel files.

Then we usage of Rows & Columns, set header row, set column names, set Index Column's, Indexing, Slicing, Deleting columns & Rows, & updating & Adding new columns & Rows.