**ASSIGNMENT-7 (PANDAS)**

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Q1. Create a DataFrame containing student information like Name, Age, Department, %Marks

Display column names of the DF

Show min/max and average marks

Get unique values and student count for each Department

Q2. Read csv file solar.csv

Display all the plants with capacity > 500 MW

Display plant details for New York plant

For all the plants display Average MW Per Plant and Generation (GWh)

Sort the plants by Generation (GWh) (ascending) and Installed Capacity (MW)(descending)

List top 5 plants for their Generation

Display all plant details for states – California, Nevada, Arizona and Texas

Group the plants by region, find – min/max capacity plant for each group

Add following information to the existing details for the plants

North Carolina

148

669

4.5

1162

North

Q.3Read csv gapminder2007.csv

Display data for all Asian countries

Display top and bottom 15 rows

Show all the rows where life expectancy is more than 50 years and less than 80 years

Show data for India, America and France

Show data for all countries where name starts with ‘A’

Show min/max and mean GDP and Population for each continent

Show population and life expectancy for all countries

Sort the data by country names (ascending) and GDP (descending)

Find top 20 most populous countries

Delete all rows for a specific country

Change all column names to title case

Change column names: pop to Population, gdpPercap to GDP\_Percap

Increase Life Expectancy by 2 years for all African countries

Find all the rows that contain NA values

Fill NA values with 0 for numeric columns