EXPERIMENT - 11

Aim: To create a dataframe of ten rows, four columns with random values convert some values to nan values to highlight the nan values.

Pseudocode:

1) Import libraries: Import pandas and numpy.
2) create a dataframe: Generate a dataframe with 10 rows and 4 columns of random values.
3) convert values to NaN: Replace some of the values in the dataframe with np.nan to simulate missing data.
4) Highlight NaN values.
5) Apply the style.

Sample Input:

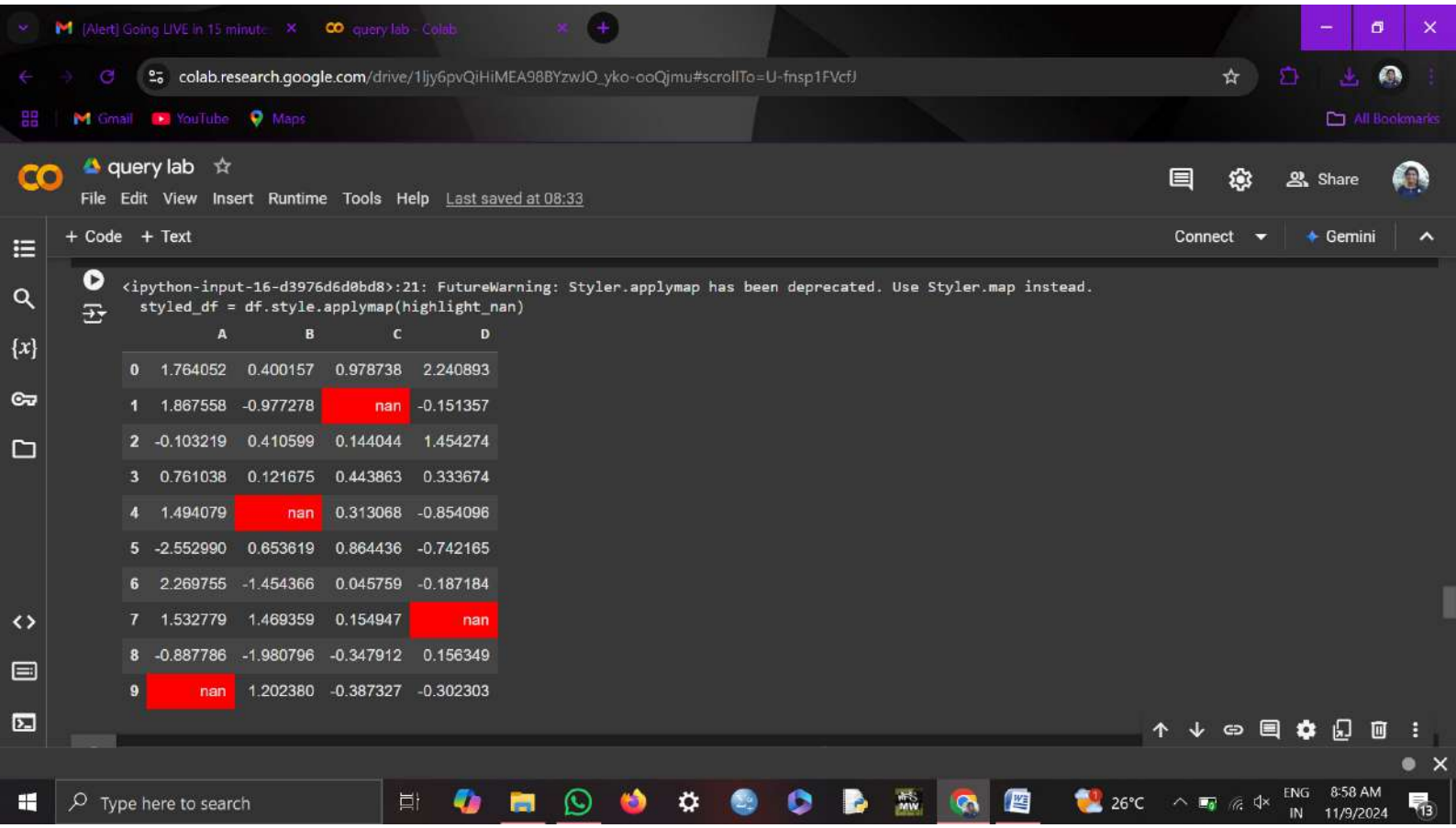
Dataset of 10 rows and 4 columns of random values.

Sample output: (12th experiment output)

	A	B	C	D
0	0.496714	-0.138264	0.647689	1.523030
1	-0.234153	-0.234137	1.579213	0.767435
2	-0.469474	0.542560	-0.463418	-0.465730
3	0.241962	-1.913280	-1.724918	-0.562288
4	-1.012831	0.314247	-0.908024	-1.412304
5	1.465649	-0.225776	0.067528	-1.424748
6	-0.544383	0.110923	-1.150994	0.375698
7	-0.600639	-0.291694	-0.601707	1.852278
8	-0.013497	-1.057711	0.822545	-1.220844
9	0.208864	-1.959670	-1.328186	0.196861

Result:

Therefore the pandas program for highlighting random values executed successfully.


[Alert] Going LIVE in 15 minute
query lab - Colab
colab.research.google.com/drive/1ljy6pvQiHiMEA98BYzwJO_yko-ooQjmu#scrollTo=U-fnsp1FVcfJ
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query lab
File Edit View Insert Runtime Tools Help Last saved at 08:33
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<ipython-input-16-d3976d6d0bd8>:21: FutureWarning: Styler.applymap has been deprecated. Use Styler.map instead.
styled_df = df.style.applymap(highlight_nan)
A B C D
0 1.764052 0.400157 0.978738 2.240893
1 1.867558 -0.977278 nan -0.151357
2 -0.103219 0.410599 0.144044 1.454274
3 0.761038 0.121675 0.443863 0.333674
4 1.494079 nan 0.313068 -0.854096
5 -2.552990 0.653619 0.864436 -0.742165
6 2.269755 -1.454366 0.045759 -0.187184
7 1.532779 1.469359 0.154947 nan
8 -0.887786 -1.980796 -0.347912 0.156349
9 nan 1.202380 -0.387327 -0.302303
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