SUBMITTED TO : DR. PRITI JAGWANI NAME : GARIMA ROHILLA ROLL NO : CSC/21/37

UNIVERSITY ROLL N0 : 21059570010

PRACTICAL - 07

7. Consider a data frame containing data about students i.e. name, gender and passing division:

	Name	Birth_Month	Gender	Pass_Division
0	Mudit Chauhan	December	М	m
1	Seema Chopra	January	F	11
2	Rani Gupta	March	F	a
3	Aditya Narayan	October	M	
4	Sanjeev Sahni	February	М	11
5	Prakash Kumar	December	M	811
6	Ritu Agarwal	September	F	ä
7	Akshay Goel	August	M	ä
8	Meeta Kulkarni	July	F	11
9	Preeti Ahuja	November	F	11
10	Sunil Das Gupta	April	М	811
11	Sonali Sapre	January	F	3
12	Rashmi Talwar	June	F	811
13	Ashish Dubey	May	M	11
14	Kiran Sharma	February	F	11
15	Sameer Bansal	October	М	1

- a. Perform one hot encoding of the last two columns of categorical data using the get dummies() function.
- b. Sort this data frame on the "Birth Month" column (i.e. January to December). Hint: Convert Month to Categorical.

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CODE:

[8]

✓ 0.0s

Name Birth Month Gender Pass Division 0 Mohit Chauhan December М Ш Seema Chopra Ш 1 January 2 Rani Gupta March F I 3 Aditya Narayan October М Ι 4 Sanjeev Sahni Ш February Μ 5 Prakash Kumar December М Ш 6 Ritu Agarwal September F ı 7 Akshay Goel August М 1 8 F Ш Meeta Kulkarni July 9 F Preeti Ahuja November Ш 10 Sunil Das Gupta April Μ Ш F 11 Sonali Sapre January 1 12 Rashmi Talwar June F Ш 13 Ashish Dubey May М Ш 14 Kiran Sharma February F Ш 15 Sameer Bansal October М

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a. Perform one hot encoding of the last two columns of categorical data using the get_dummies() function.

	Name	Birth_Month	Gender F	Gender M	Pass Division I	Pass Division II	Pass Division III
_							
0	Mohit Chauhan	December	False	True	False	False	True
1	Seema Chopra	January	True	False	False	True	False
2	Rani Gupta	March	True	False	True	False	False
3	Aditya Narayan	October	False	True	True	False	False
4	Sanjeev Sahni	February	False	True	False	True	False
5	Prakash Kumar	December	False	True	False	False	True
6	Ritu Agarwal	September	True	False	True	False	False
7	Akshay Goel	August	False	True	True	False	False
8	Meeta Kulkarni	July	True	False	False	True	False
9	Preeti Ahuja	November	True	False	False	True	False
10	Sunil Das Gupta	April	False	True	False	False	True
11	Sonali Sapre	January	True	False	True	False	False
12	Rashmi Talwar	June	True	False	False	False	True
13	Ashish Dubey	May	False	True	False	True	False
14	Kiran Sharma	February	True	False	False	True	False
15	Sameer Bansal	October	False	True	True	False	False

b. Sort this data frame on the "Birth Month" column (i.e. January to December). Hint: Convert Month to Categorical.

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	Name	${\sf Birth_Month}$	Gender_F	${\sf Gender_M}$	Pass_Division_I	Pass_Division_II	Pass_Division_III
1	Seema Chopra	January	True	False	False	True	False
11	Sonali Sapre	January	True	False	True	False	False
4	Sanjeev Sahni	February	False	True	False	True	False
14	Kiran Sharma	February	True	False	False	True	False
2	Rani Gupta	March	True	False	True	False	False
10	Sunil Das Gupta	April	False	True	False	False	True
13	Ashish Dubey	May	False	True	False	True	False
12	Rashmi Talwar	June	True	False	False	False	True
8	Meeta Kulkarni	July	True	False	False	True	False
7	Akshay Goel	August	False	True	True	False	False
6	Ritu Agarwal	September	True	False	True	False	False
3	Aditya Narayan	October	False	True	True	False	False
15	Sameer Bansal	October	False	True	True	False	False
9	Preeti Ahuja	November	True	False	False	True	False
0	Mohit Chauhan	December	False	True	False	False	True
5	Prakash Kumar	December	False	True	False	False	True