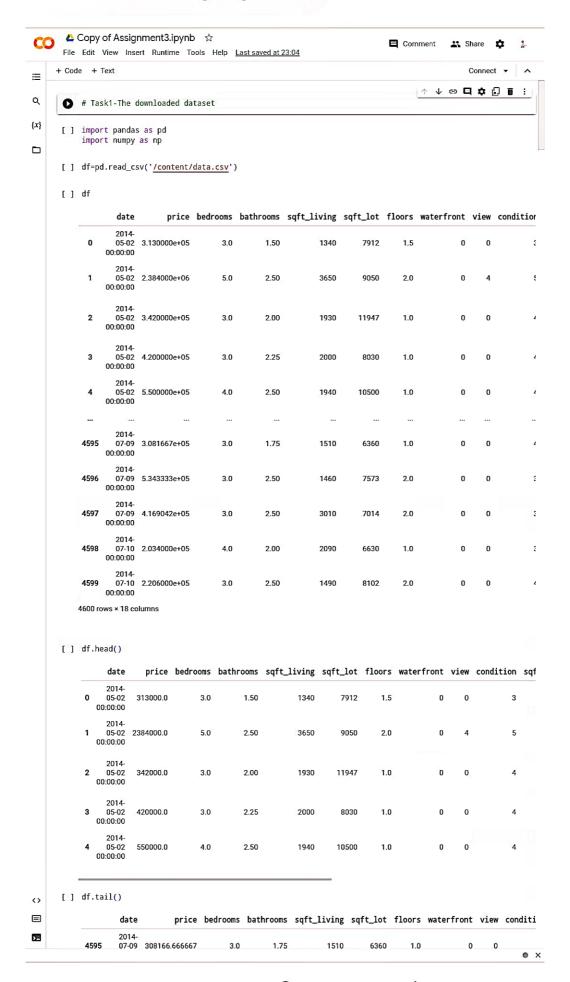
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1)



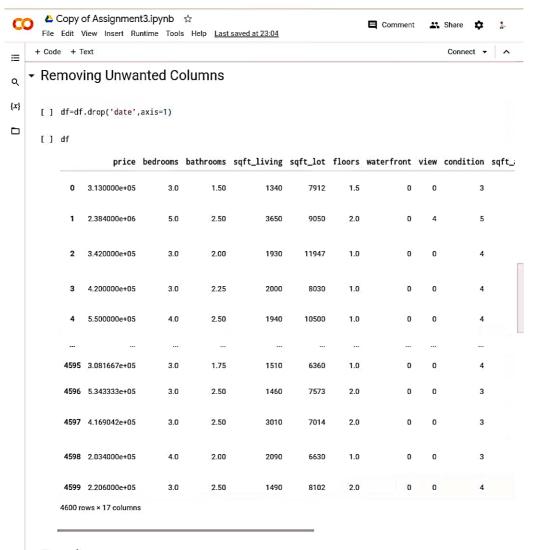


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[]	df.tail()								
	da	te price bedrooms bathrooms sq	ft_living sqft_lot floors waterfront view	conditi					
	4595 07- 00:00:	09 308166.666667 3.0 1.75	1510 6360 1.0 0 0						
	201 4596 07- 00:00:	09 534333.333333 3.0 2.50	1460 7573 2.0 0 0						
	4597 07- 00:00:	09 416904.166667 3.0 2.50	3010 7014 2.0 0 0						
	4598 07- 00:00:	10 203400.000000 4.0 2.00	2090 6630 1.0 0 0						
	201 4599 07- 00:00:	10 220600.000000 3.0 2.50	1490 8102 2.0 0 0						
[]	# Task2-Che	ck datatype of columns							
[]	df.info()								
	<cla< td=""><td>ss 'pandas.core</td><td>.frame.DataFrame</td><td><b>'</b> &gt;</td></cla<>	ss 'pandas.core	.frame.DataFrame	<b>'</b> >					
		N-1	tries, 0 to 4599						
	Data	columns (total	18 columns):						
	#	Column	Non-Null Count	Dt					
	0	date	4600 non-null	ob					
	1	price	4600 non-null	fl					
	2	bedrooms	4600 non-null	fl					
	3	bathrooms	4600 non-null	fl					
	4	sqft_living	4600 non-null	in					
	5	sqft_lot	4600 non-null	in					
	6	floors	4600 non-null	f1					
	7	waterfront	4600 non-null	in					
	8	view	4600 non-null	in					
	9	condition	4600 non-null	in					
	10	sqft_above	4600 non-null	in					
	11	sqft_basement	4600 non-null	in					
	12	yr_built	4600 non-null	in					
	13	yr_renovated		in					
		street	4600 non-null	ob					
	14								
	14 15		4600 non-null	ob					
		city statezin	4600 non-null _4600_non-null	ob oh					









#### - Encoding

One Hot Encoding

[ ] pd.get\_dummies(df['city'])

	Algona	Auburn	Beaux Arts Village	Bellevue	Black Diamond	Bothell	Burien	Carnation	Clyde Hill	Covington	•••	SeaTa	
0	0	0	0	0	0	0	0	0	0	0			
1	0	0	0	0	0	0	0	0	0	0			
2	0	0	0	0	0	0	0	0	0	0			
3	0	0	0	1	0	0	0	0	0	0			
4	0	0	0	0	0	0	0	0	0	0			
	***)	•••		***			***						
4595	0	0	0	0	0	0	0	0	0	0			
4596	0	0	0	1	0	0	0	0	0	0			
4597	0	0	0	0	0	0	0	0	0	0			
4598	0	0	0	0	0	0	0	0	0	0			
4599	0	0	0	0	0	0	0	0	0	1			
4600 r	4600 rows × 44 columns												

Label Encoding

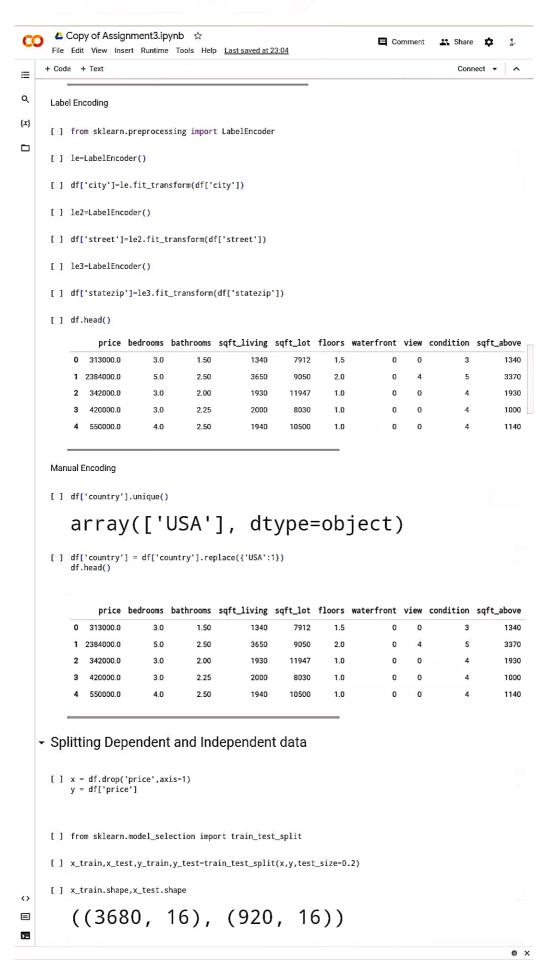
Σ

[ ] from sklearn.preprocessing import LabelEncoder

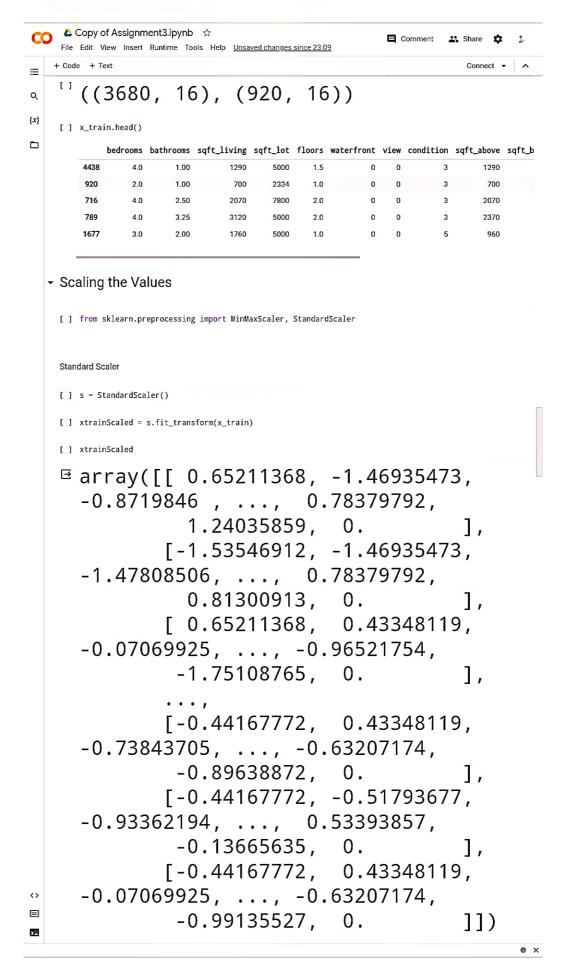












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   File Edit View Insert Runtime Tools Help Unsaved changes since 23:09
               -0.9913552/,
                                 υ.
   [ ] xtestScaled = s.transform(x_test)
{x}
[] xtestScaled
     array([[-0.44167772, 0.11634187,
     -0.28642992, ..., -0.38221238,
               -0.7539389 , 0.
              [-0.44167772, -0.20079745,
     0.20666876, ..., 0.78379792,
                0.8604924 , 0.
              [ 1.74590507, 0.43348119,
     0.37103498, \ldots, -1.29836334,
                1.62022478. 0.
                                              ],
              [ 0.65211368, 0.43348119,
     0.32994343, ..., 0.45065212,
                0.1482433 , 0.
              [ 0.65211368, 0.11634187,
     0.80249633, ..., -1.04850399,
               -1.18128837, 0.
              [-1.53546912, -1.46935473,
     -1.24180861, ..., -1.88136849,
               -1.60863783, 0.
                                              ]])
   Min-Max Scaler
   [ ] n = MinMaxScaler()
   [ ] xtrain_scaled = n.fit_transform(x_train)
   [] xtrain_scaled
     array([[0.4444444, 0.125
     0.06985573, ..., 0.81395349,
     0.85526316,
              [0.2222222, 0.125]
     0.02505695, ..., 0.81395349,
<>
     0.73684211,
=:
```

