Assignment 2 – Pandas

Problem Statement:

You work in XYZ Corporation as a Data Analyst. Your corporation has told you to analyze the customer_churn dataset with various functions.

Tasks To Be Performed:

1. Now select the rows from 20th index till 200th index (exclusive) and
columns from 2nd index till 15th index value.

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In [1]: import pandas as pd
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In [2]: df = pd.read_csv(r'csv files/customer_churn-1.csv')
df
```

Out[2]:

	customerID	gender	SeniorCitizen	Partner	Dependents	tenure	PhoneService	MultipleLines	InternetService	OnlineSecurity	...	DeviceProtection	TechSupport	StreamingTV	StreamingMovies	Contract	PaperlessBilling	PaymentMethod	MonthlyCharges	TotalCharges	Churn
0	7590-VHVEG	Female	0	Yes	No	1	No	No phone service	DSL	No	...	No	No	No	No	Month-to-month	Yes	Electronic check	29.85	29.85	No
1	5575-GNVDE	Male	0	No	No	34	Yes	No	DSL	Yes	...	Yes	No	No	No	One year	No	Mailed check	56.95	1889.5	No
2	3668-QPYBK	Male	0	No	No	2	Yes	No	DSL	Yes	...	No	No	No	No	Month-to-month	Yes	Mailed check	53.85	108.15	Yes
3	7795-CFOCW	Male	0	No	No	45	No	No phone service	DSL	Yes	...	Yes	Yes	No	No	One year	No	Bank transfer (automatic)	42.30	1840.75	No
4	9237-HQITU	Female	0	No	No	2	Yes	No	Fiber optic	No	...	No	No	No	No	Month-to-month	Yes	Electronic check	70.70	151.65	Yes
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7038	6840-RESVB	Male	0	Yes	Yes	24	Yes	Yes	DSL	Yes	...	Yes	Yes	Yes	Yes	One year	Yes	Mailed check	84.80	1990.5	No
7039	2234-XADUH	Female	0	Yes	Yes	72	Yes	Yes	Fiber optic	No	...	Yes	No	Yes	Yes	One year	Yes	Credit card (automatic)	103.20	7362.9	No
7040	4801-JZAZL	Female	0	Yes	Yes	11	No	No phone service	DSL	Yes	...	No	No	No	No	Month-to-month	Yes	Electronic check	29.60	346.45	No
7041	8361-LTMKD	Male	1	Yes	No	4	Yes	Yes	Fiber optic	No	...	No	No	No	No	Month-to-month	Yes	Mailed check	74.40	306.6	Yes
7042	3186-AJIEK	Male	0	No	No	66	Yes	No	Fiber optic	Yes	...	Yes	Yes	Yes	Yes	Two year	Yes	Bank transfer (automatic)	105.65	6844.5	No

7043 rows × 21 columns

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In [4]: df.iloc[20:200,2:16]
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Out[4]:

	SeniorCitizen	Partner	Dependents	tenure	PhoneService	MultipleLines	InternetService	OnlineSecurity	OnlineBackup	DeviceProtection	TechSupport	StreamingTV	StreamingMovies	Contract
20	1	No	No	1	No	No phone service	DSL	No	No	Yes	No	No	Yes	Month-to-month
21	0	Yes	No	12	Yes	No	No	No internet service	No internet service	No internet service	No internet service	No internet service	No internet service	One year
22	0	No	No	1	Yes	No	No	No internet service	No internet service	No internet service	No internet service	No internet service	No internet service	Month-to-month
23	0	Yes	No	58	Yes	Yes	DSL	No	Yes	No	Yes	No	No	Two year
24	0	Yes	Yes	49	Yes	No	DSL	Yes	Yes	No	Yes	No	No	Month-to-month
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
195	0	Yes	No	20	Yes	No	Fiber optic	Yes	Yes	No	Yes	Yes	No	Month-to-month
196	0	Yes	Yes	24	Yes	Yes	No	No internet service	No internet service	No internet service	No internet service	No internet service	No internet service	Two year
197	0	No	No	59	Yes	Yes	Fiber optic	No	Yes	Yes	Yes	Yes	Yes	Month-to-month
198	0	Yes	Yes	72	Yes	Yes	Fiber optic	No	Yes	Yes	Yes	Yes	Yes	Two year
199	0	No	Yes	1	Yes	No	No	No internet service	No internet service	No internet service	No internet service	No internet service	No internet service	Month-to-month

180 rows × 14 columns

```
In [ ]:
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