NETFLIX Userbase Dataset

```
NetflixUserbase = readtable("NetflixUserbase.csv")
```

Warning: Column headers from the file were modified to make them valid MATLAB identifiers before creating variable names for the table. The original column headers are saved in the VariableDescriptions property. Set 'VariableNamingRule' to 'preserve' to use the original column headers as table variable names.
NetflixUserbase = 2500×10 table

...

	UserID	SubscriptionType	MonthlyRevenue	JoinDate	LastPaymentDate
1	1	'Basic'	10	0015-01-22	0010-06-23
2	2	'Premium'	15	0005-09-21	0022-06-23
3	3	'Standard'	12	0028-02-23	0027-06-23
4	4	'Standard'	12	0010-07-22	0026-06-23
5	5	'Basic'	10	0001-05-23	0028-06-23
6	6	'Premium'	15	0018-03-22	0027-06-23
7	7	'Standard'	12	0009-12-21	0025-06-23
8	8	'Basic'	10	0002-04-23	0024-06-23
9	9	'Standard'	12	0020-10-22	0023-06-23
10	10	'Premium'	15	0007-01-23	0022-06-23
11	11	'Basic'	10	0016-05-22	0022-06-23
12	12	'Premium'	15	0023-03-23	0028-06-23
13	13	'Standard'	12	0030-11-21	0027-06-23
14	14	'Basic'	10	0001-08-22	0026-06-23

⋮

Data Distribution

```
% Define variables to analyze
NumericVars = ["SubscriptionType", "MonthlyRevenue", "Country", "Age", "Device",
"Gender"];

% Loop through the variables
for v = 1:numel(NumericVars)
    figure;
    varData = NetflixUserbase{:, NumericVars(v)};

    % Check if the data is numeric
    if isnumeric(varData)
        histogram(varData);
    elseif iscategorical(varData) || isstring(varData) || iscellstr(varData)
        % Convert to categorical if not already
        categoricalData = categorical(varData);
```
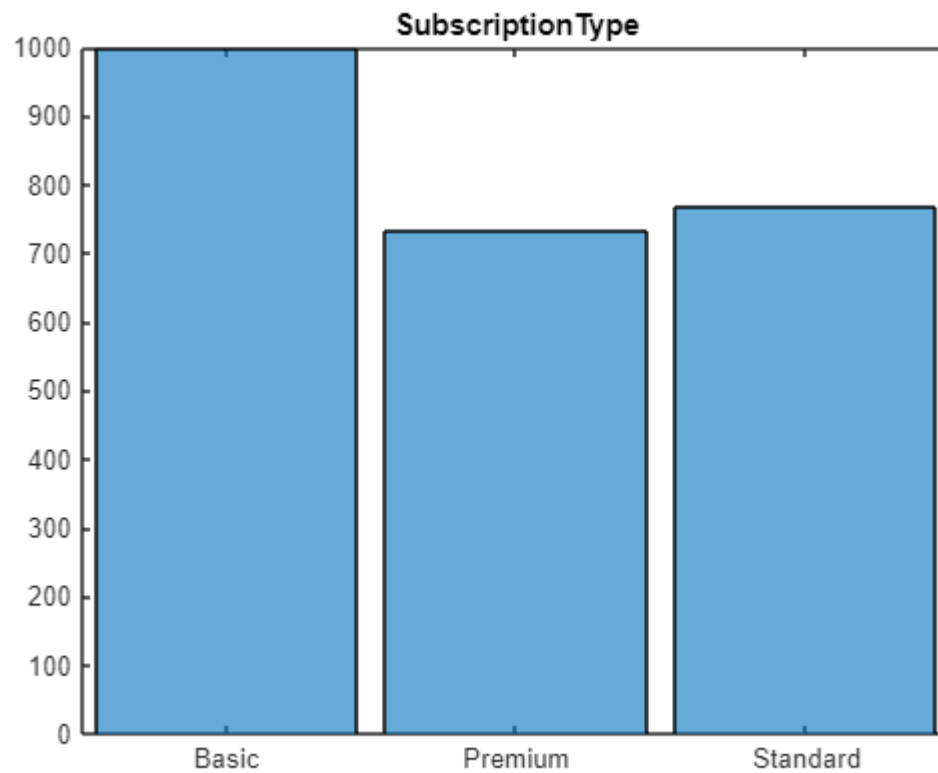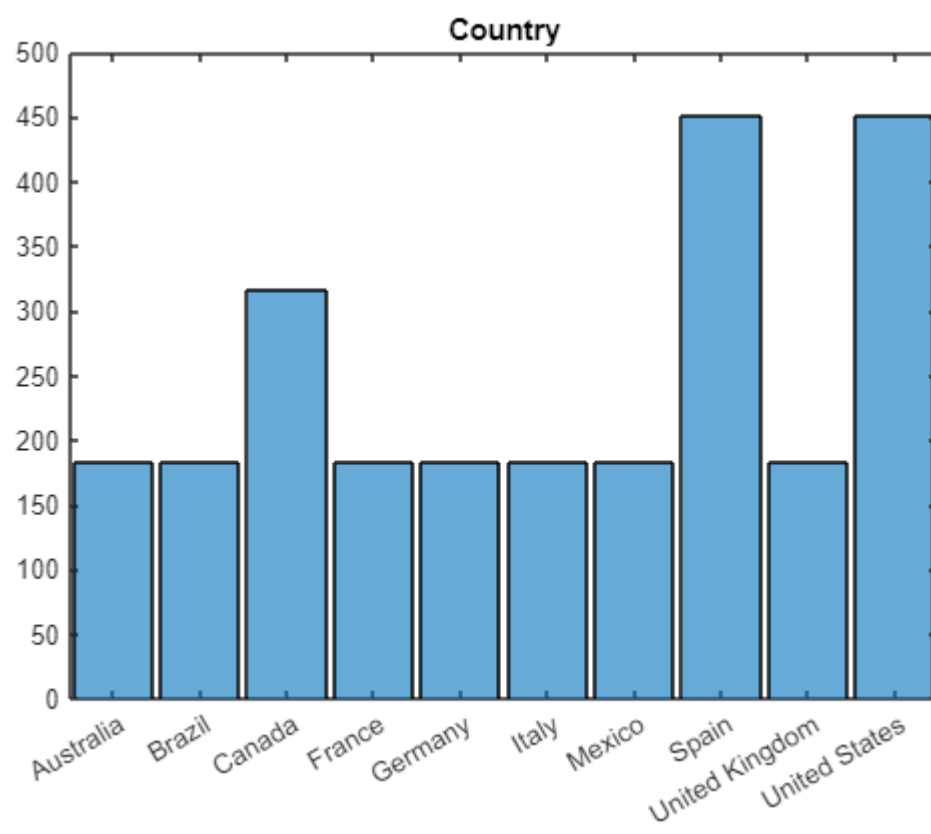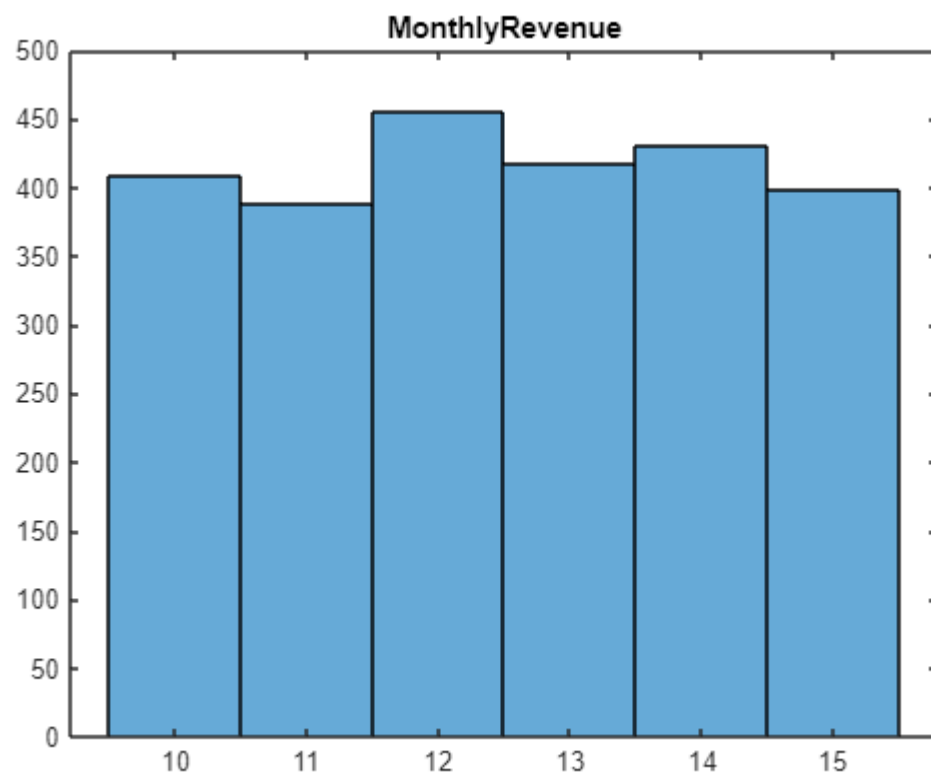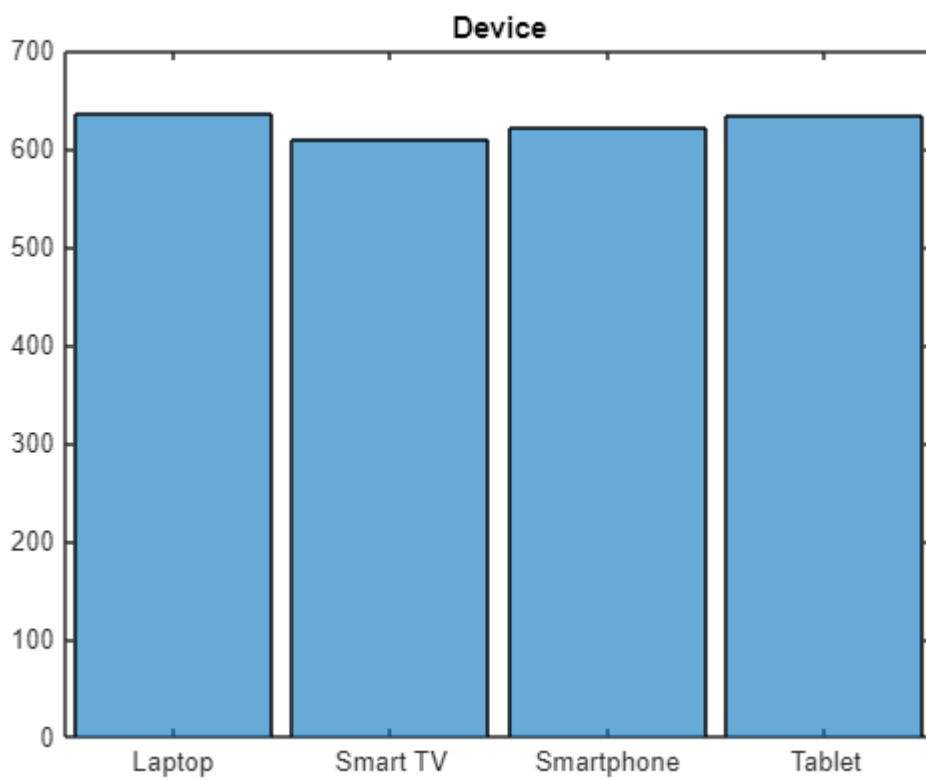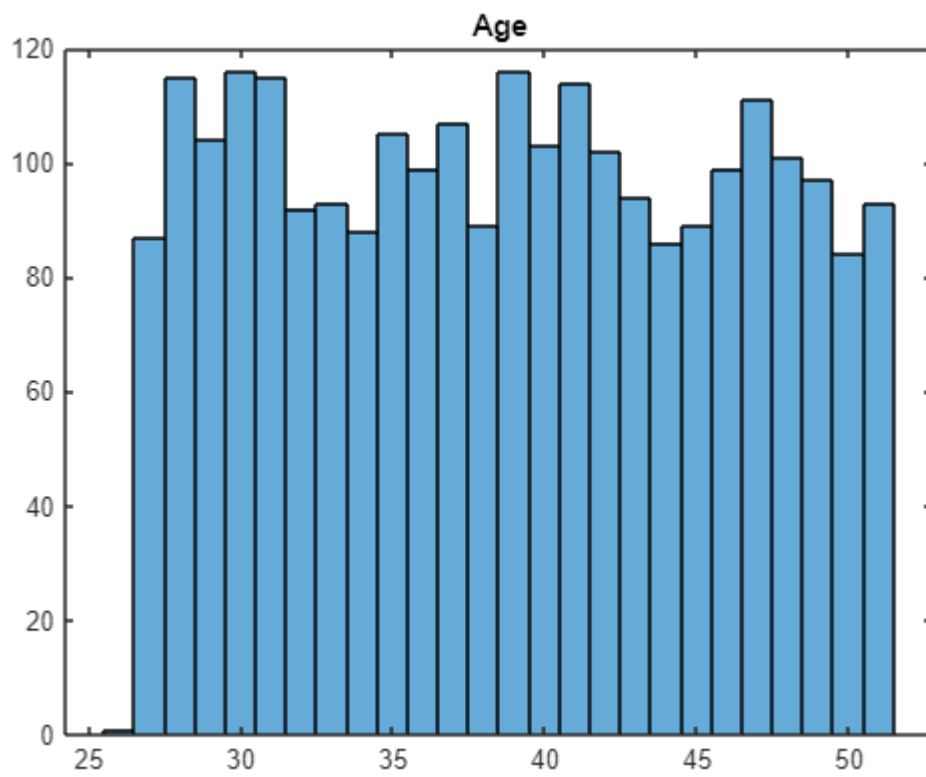
```matlab
        histogram(categoricalData);
    else
        % Skip unsupported types with a warning
        warning('Skipping variable %s as it is neither numeric nor categorical.',
NumericVars(v));
        continue;
    end

    % Set the title of the histogram
    title(replace(NumericVars(v), "_", " "));
end
```
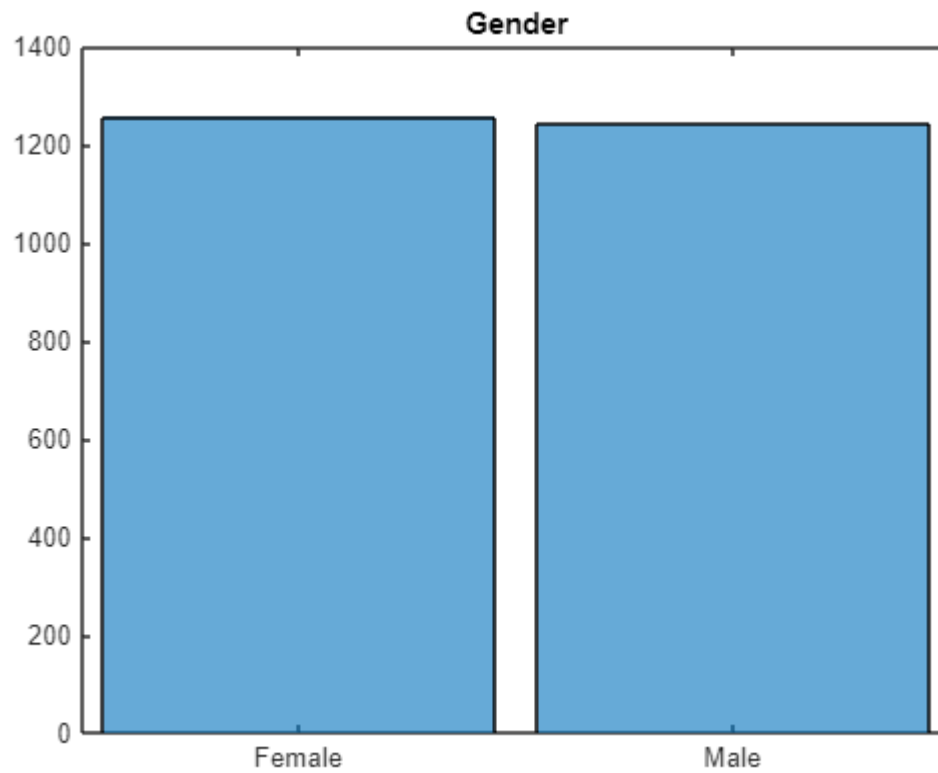

Subscription Type

MonthlyRevenue

Country

Age

Device

Data Cleaning

Handling Duplicate Value

```
NoDuplicates = unique(NetflixUserbase, 'rows');
disp('Dataset after removing duplicates:');
```

Dataset after removing duplicates:

```
disp(NoDuplicates);
```

UserID	SubscriptionType	MonthlyRevenue	JoinDate	LastPaymentDate	Country	Age	
1	{'Basic' }	10	0015-01-22	0010-06-23	{'United States' }	28	{
2	{'Premium' }	15	0005-09-21	0022-06-23	{'Canada' }	35	{
3	{'Standard'}	12	0028-02-23	0027-06-23	{'United Kingdom'}	42	{
4	{'Standard'}	12	0010-07-22	0026-06-23	{'Australia' }	51	{
5	{'Basic' }	10	0001-05-23	0028-06-23	{'Germany' }	33	{
6	{'Premium' }	15	0018-03-22	0027-06-23	{'France' }	29	{
7	{'Standard'}	12	0009-12-21	0025-06-23	{'Brazil' }	46	{
8	{'Basic' }	10	0002-04-23	0024-06-23	{'Mexico' }	39	{
9	{'Standard'}	12	0020-10-22	0023-06-23	{'Spain' }	37	{
10	{'Premium' }	15	0007-01-23	0022-06-23	{'Italy' }	44	{
11	{'Basic' }	10	0016-05-22	0022-06-23	{'United States' }	31	{
12	{'Premium' }	15	0023-03-23	0028-06-23	{'Canada' }	45	{
13	{'Standard'}	12	0030-11-21	0027-06-23	{'United Kingdom'}	48	{
14	{'Basic' }	10	0001-08-22	0026-06-23	{'Australia' }	27	{
15	{'Standard'}	12	0009-05-23	0028-06-23	{'Germany' }	38	{
16	{'Premium' }	15	0007-04-22	0027-06-23	{'France' }	36	{

17	{'Basic' }	10	0024-01-22	0025-06-23	{'Brazil' }	30	{
18	{'Standard'}	12	0018-10-21	0024-06-23	{'Mexico' }	43	{
19	{'Premium' }	15	0015-02-23	0023-06-23	{'Spain' }	32	{
20	{'Basic' }	10	0027-05-23	0022-06-23	{'Italy' }	41	{
21	{'Premium' }	15	0010-06-23	0022-06-23	{'United States' }	26	{
22	{'Basic' }	10	0022-07-22	0028-06-23	{'Canada' }	34	{
23	{'Standard'}	12	0005-12-21	0027-06-23	{'United Kingdom'}	49	{
24	{'Standard'}	12	0003-04-22	0026-06-23	{'Australia' }	31	{
25	{'Basic' }	10	0014-03-23	0028-06-23	{'Germany' }	40	{
26	{'Premium' }	15	0012-01-22	0027-06-23	{'France' }	29	{
27	{'Basic' }	10	0029-08-22	0025-06-23	{'Brazil' }	47	{
28	{'Standard'}	12	0027-09-21	0024-06-23	{'Mexico' }	33	{
29	{'Premium' }	15	0019-12-22	0023-06-23	{'Spain' }	36	{
30	{'Basic' }	10	0017-05-23	0022-06-23	{'Italy' }	42	{
31	{'Premium' }	15	0003-02-23	0022-06-23	{'United States' }	28	{
32	{'Basic' }	10	0007-07-22	0028-06-23	{'Canada' }	37	{
33	{'Standard'}	12	0021-01-22	0027-06-23	{'United Kingdom'}	41	{
34	{'Standard'}	12	0025-05-22	0026-06-23	{'Australia' }	29	{
35	{'Basic' }	10	0011-04-23	0028-06-23	{'Germany' }	39	{
36	{'Premium' }	15	0001-03-22	0027-06-23	{'France' }	35	{
37	{'Basic' }	10	0014-09-22	0025-06-23	{'Brazil' }	45	{
38	{'Standard'}	12	0005-11-21	0024-06-23	{'Mexico' }	32	{
39	{'Premium' }	15	0028-12-22	0023-06-23	{'Spain' }	27	{
40	{'Basic' }	10	0007-03-23	0022-06-23	{'Italy' }	48	{
41	{'Premium' }	15	0020-01-23	0022-06-23	{'United States' }	31	{
42	{'Basic' }	10	0015-06-22	0028-06-23	{'Canada' }	40	{
43	{'Standard'}	12	0007-02-22	0027-06-23	{'United Kingdom'}	36	{
44	{'Standard'}	12	0026-04-22	0026-06-23	{'Australia' }	29	{
45	{'Basic' }	10	0028-01-23	0028-06-23	{'Germany' }	43	{
46	{'Premium' }	15	0023-02-22	0027-06-23	{'France' }	34	{
47	{'Basic' }	10	0005-10-22	0025-06-23	{'Brazil' }	39	{
48	{'Standard'}	12	0015-09-21	0024-06-23	{'Mexico' }	32	{
49	{'Premium' }	15	0010-11-22	0023-06-23	{'Spain' }	28	{
50	{'Basic' }	10	0002-06-23	0022-06-23	{'Italy' }	45	{
51	{'Premium' }	15	0027-02-23	0022-06-23	{'United States' }	30	{
52	{'Basic' }	10	0029-08-22	0028-06-23	{'Canada' }	37	{
53	{'Standard'}	12	0013-01-22	0027-06-23	{'United Kingdom'}	41	{
54	{'Standard'}	12	0030-06-22	0026-06-23	{'Australia' }	29	{
55	{'Basic' }	10	0020-04-23	0028-06-23	{'Germany' }	39	{
56	{'Premium' }	15	0015-03-22	0027-06-23	{'France' }	36	{
57	{'Basic' }	10	0001-10-22	0025-06-23	{'Brazil' }	46	{
58	{'Standard'}	12	0008-10-21	0024-06-23	{'Mexico' }	34	{
59	{'Premium' }	15	0003-12-22	0023-06-23	{'Spain' }	27	{
60	{'Basic' }	10	0014-06-23	0022-06-23	{'Italy' }	42	{
61	{'Premium' }	15	0008-02-23	0022-06-23	{'United States' }	28	{
62	{'Basic' }	10	0003-08-22	0028-06-23	{'Canada' }	37	{
63	{'Standard'}	12	0023-02-22	0027-06-23	{'United Kingdom'}	41	{
64	{'Standard'}	12	0020-06-22	0026-06-23	{'Australia' }	29	{
65	{'Basic' }	10	0029-03-23	0028-06-23	{'Germany' }	40	{
66	{'Premium' }	15	0030-01-22	0027-06-23	{'France' }	29	{
67	{'Basic' }	10	0018-09-22	0025-06-23	{'Brazil' }	47	{
68	{'Standard'}	12	0009-11-21	0024-06-23	{'Mexico' }	33	{
69	{'Premium' }	15	0023-12-22	0023-06-23	{'Spain' }	36	{
70	{'Basic' }	10	0008-05-23	0022-06-23	{'Italy' }	41	{
71	{'Basic' }	10	0026-01-22	0020-06-23	{'United States' }	27	{
72	{'Basic' }	10	0011-10-22	0022-06-23	{'Canada' }	31	{
73	{'Standard'}	12	0027-09-22	0026-06-23	{'United Kingdom'}	28	{
74	{'Premium' }	13	0014-12-22	0025-06-23	{'Australia' }	41	{
75	{'Basic' }	13	0028-05-22	0026-06-23	{'Germany' }	28	{
76	{'Basic' }	13	0029-12-21	0026-06-23	{'France' }	51	{
77	{'Premium' }	15	0025-12-22	0023-06-23	{'Brazil' }	45	{
78	{'Standard'}	15	0018-11-22	0028-06-23	{'Mexico' }	49	{
79	{'Standard'}	15	0003-12-22	0025-06-23	{'Spain' }	43	{
80	{'Basic' }	12	0008-11-22	0022-06-23	{'Italy' }	43	{

81	{'Premium' }	10	0011-01-23	0024-06-23	{'United States' }	37	{
82	{'Standard'}	12	0007-12-22	0028-06-23	{'Canada' }	35	{
83	{'Basic' }	10	0020-10-22	0026-06-23	{'United Kingdom'}	46	{
84	{'Standard'}	12	0013-04-23	0025-06-23	{'Australia' }	32	{
85	{'Premium' }	10	0006-04-23	0027-06-23	{'Germany' }	37	{
86	{'Basic' }	11	0004-03-22	0025-06-23	{'France' }	29	{
87	{'Premium' }	15	0028-12-21	0023-06-23	{'Brazil' }	45	{
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91	{'Premium' }	11	0003-10-22	0023-06-23	{'United States' }	39	{
92	{'Basic' }	14	0005-01-22	0028-06-23	{'Canada' }	39	{
93	{'Standard'}	12	0005-02-22	0026-06-23	{'United Kingdom'}	35	{
94	{'Premium' }	12	0019-03-22	0025-06-23	{'Australia' }	44	{
95	{'Basic' }	11	0028-02-22	0025-06-23	{'Germany' }	34	{
96	{'Premium' }	14	0026-07-22	0024-06-23	{'France' }	32	{
97	{'Basic' }	10	0005-03-22	0024-06-23	{'Brazil' }	29	{
98	{'Standard'}	13	0007-03-22	0028-06-23	{'Mexico' }	31	{
99	{'Standard'}	12	0013-01-23	0024-06-23	{'Spain' }	29	{
100	{'Basic' }	12	0022-01-23	0025-06-23	{'Italy' }	35	{
101	{'Premium' }	11	0017-10-22	0024-06-23	{'United States' }	46	{
102	{'Basic' }	12	0029-03-22	0028-06-23	{'Canada' }	31	{
103	{'Standard'}	13	0004-04-22	0026-06-23	{'United Kingdom'}	36	{
104	{'Premium' }	10	0008-06-22	0025-06-23	{'Australia' }	38	{
105	{'Basic' }	11	0004-03-22	0027-06-23	{'Germany' }	46	{
106	{'Premium' }	10	0018-03-22	0024-06-23	{'France' }	49	{
107	{'Basic' }	14	0007-03-22	0024-06-23	{'Brazil' }	29	{
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109	{'Standard'}	13	0008-02-23	0025-06-23	{'Spain' }	35	{
110	{'Basic' }	13	0026-01-23	0024-06-23	{'Italy' }	37	{
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112	{'Basic' }	10	0001-06-22	0028-06-23	{'Canada' }	33	{
113	{'Standard'}	15	0007-05-22	0026-06-23	{'United Kingdom'}	37	{
114	{'Premium' }	10	0018-11-22	0025-06-23	{'Australia' }	48	{
115	{'Basic' }	11	0005-04-22	0025-06-23	{'Germany' }	50	{
116	{'Premium' }	14	0019-05-22	0023-06-23	{'France' }	45	{
117	{'Basic' }	15	0030-10-21	0023-06-23	{'Brazil' }	40	{
118	{'Standard'}	12	0007-08-22	0027-06-23	{'Mexico' }	33	{
119	{'Standard'}	11	0020-09-22	0025-06-23	{'Spain' }	44	{
120	{'Basic' }	10	0018-10-22	0025-06-23	{'Italy' }	30	{
121	{'Premium' }	15	0003-10-22	0024-06-23	{'United States' }	27	{
122	{'Basic' }	11	0003-05-22	0028-06-23	{'Canada' }	51	{
123	{'Standard'}	13	0025-05-22	0026-06-23	{'United Kingdom'}	49	{
124	{'Premium' }	15	0005-11-22	0025-06-23	{'Australia' }	43	{
125	{'Basic' }	12	0021-08-22	0024-06-23	{'Germany' }	42	{
126	{'Premium' }	13	0021-09-22	0023-06-23	{'France' }	45	{
127	{'Basic' }	10	0023-11-21	0023-06-23	{'Brazil' }	36	{
128	{'Standard'}	12	0006-10-22	0027-06-23	{'Mexico' }	48	{
129	{'Standard'}	13	0005-11-22	0023-06-23	{'Spain' }	38	{
130	{'Basic' }	14	0007-01-23	0023-06-23	{'Italy' }	43	{
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132	{'Basic' }	15	0024-06-22	0028-06-23	{'Canada' }	48	{
133	{'Standard'}	13	0024-06-22	0026-06-23	{'United Kingdom'}	47	{
134	{'Premium' }	15	0005-11-22	0025-06-23	{'Australia' }	32	{
135	{'Basic' }	13	0018-07-22	0026-06-23	{'Germany' }	47	{
136	{'Premium' }	12	0013-09-22	0026-06-23	{'France' }	41	{
137	{'Basic' }	12	0010-08-22	0022-06-23	{'Brazil' }	49	{
138	{'Standard'}	15	0021-09-22	0023-06-23	{'Mexico' }	28	{
139	{'Standard'}	13	0024-03-23	0023-06-23	{'Spain' }	40	{
140	{'Basic' }	12	0002-05-22	0023-06-23	{'Italy' }	43	{
141	{'Premium' }	12	0011-05-22	0027-06-23	{'United States' }	42	{
142	{'Basic' }	14	0010-06-22	0022-06-23	{'Canada' }	28	{
143	{'Standard'}	14	0031-08-22	0024-06-23	{'United Kingdom'}	30	{
144	{'Premium' }	10	0017-08-22	0026-06-23	{'Australia' }	33	{

145	{'Basic' }	11	0005-05-22	0026-06-23	{'Germany' }	35	{
146	{'Basic' }	10	0006-10-22	0025-06-23	{'France' }	38	{
147	{'Basic' }	12	0008-11-22	0024-06-23	{'Brazil' }	49	{
148	{'Standard'}	15	0027-11-22	0028-06-23	{'Mexico' }	39	{
149	{'Premium' }	13	0017-11-22	0027-06-23	{'Spain' }	46	{
150	{'Basic' }	10	0015-12-22	0023-06-23	{'Italy' }	47	{
151	{'Basic' }	15	0012-12-22	0025-06-23	{'United States' }	30	{
152	{'Premium' }	14	0023-11-22	0027-06-23	{'Canada' }	33	{
153	{'Standard'}	11	0025-12-22	0024-06-23	{'United Kingdom'}	47	{
154	{'Standard'}	11	0011-03-23	0027-06-23	{'Australia' }	27	{
155	{'Basic' }	14	0018-11-22	0027-06-23	{'Germany' }	28	{
156	{'Premium' }	15	0019-08-22	0025-06-23	{'France' }	47	{
157	{'Standard'}	14	0027-09-22	0024-06-23	{'Brazil' }	30	{
158	{'Basic' }	13	0019-10-22	0028-06-23	{'Mexico' }	47	{
159	{'Standard'}	10	0021-12-22	0026-06-23	{'Spain' }	51	{
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163	{'Standard'}	11	0005-04-22	0026-06-23	{'United Kingdom'}	29	{
164	{'Basic' }	11	0011-03-22	0026-06-23	{'Australia' }	42	{
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166	{'Premium' }	13	0016-04-22	0026-06-23	{'France' }	42	{
167	{'Basic' }	13	0007-04-22	0024-06-23	{'Brazil' }	29	{
168	{'Standard'}	10	0011-12-22	0028-06-23	{'Mexico' }	29	{
169	{'Premium' }	12	0020-01-23	0026-06-23	{'Spain' }	49	{
170	{'Basic' }	14	0012-01-23	0025-06-23	{'Italy' }	32	{
171	{'Premium' }	11	0029-04-22	0024-06-23	{'United States' }	35	{
172	{'Basic' }	12	0027-04-22	0026-06-23	{'Canada' }	39	{
173	{'Standard'}	15	0003-06-22	0025-06-23	{'United Kingdom'}	40	{
174	{'Standard'}	14	0023-04-22	0025-06-23	{'Australia' }	39	{
175	{'Basic' }	10	0022-04-22	0026-06-23	{'Germany' }	47	{
176	{'Premium' }	13	0012-04-22	0025-06-23	{'France' }	37	{
177	{'Basic' }	15	0023-05-22	0026-06-23	{'Brazil' }	27	{
178	{'Standard'}	13	0019-10-22	0026-06-23	{'Mexico' }	49	{
179	{'Premium' }	10	0003-12-22	0026-06-23	{'Spain' }	30	{
180	{'Basic' }	14	0026-09-22	0025-06-23	{'Italy' }	36	{
181	{'Premium' }	15	0016-06-22	0027-06-23	{'United States' }	33	{
182	{'Basic' }	13	0016-05-22	0025-06-23	{'Canada' }	30	{
183	{'Standard'}	15	0026-05-22	0026-06-23	{'United Kingdom'}	36	{
184	{'Standard'}	13	0026-04-22	0025-06-23	{'Australia' }	28	{
185	{'Basic' }	11	0012-05-22	0025-06-23	{'Germany' }	47	{
186	{'Premium' }	12	0001-03-22	0025-06-23	{'France' }	33	{
187	{'Basic' }	13	0010-07-22	0024-06-23	{'Brazil' }	49	{
188	{'Standard'}	15	0016-07-22	0027-06-23	{'Mexico' }	44	{
189	{'Premium' }	13	0002-09-22	0026-06-23	{'Spain' }	47	{
190	{'Basic' }	11	0018-09-22	0026-06-23	{'Italy' }	37	{
191	{'Premium' }	10	0008-07-22	0025-06-23	{'United States' }	46	{
192	{'Basic' }	14	0026-06-22	0027-06-23	{'Canada' }	50	{
193	{'Standard'}	11	0005-08-22	0025-06-23	{'United Kingdom'}	50	{
194	{'Standard'}	14	0019-08-22	0027-06-23	{'Australia' }	37	{
195	{'Basic' }	11	0026-08-22	0024-06-23	{'Germany' }	50	{
196	{'Premium' }	13	0009-06-22	0024-06-23	{'France' }	45	{
197	{'Basic' }	14	0027-09-22	0023-06-23	{'Brazil' }	45	{
198	{'Standard'}	10	0018-10-22	0027-06-23	{'Mexico' }	49	{
199	{'Premium' }	14	0031-10-22	0025-06-23	{'Spain' }	39	{
200	{'Basic' }	11	0013-10-22	0025-06-23	{'Italy' }	45	{
201	{'Premium' }	11	0004-07-22	0027-06-23	{'United States' }	49	{
202	{'Basic' }	12	0026-06-22	0027-06-23	{'Canada' }	31	{
203	{'Standard'}	13	0031-07-22	0024-06-23	{'United Kingdom'}	42	{
204	{'Standard'}	12	0027-07-22	0024-06-23	{'Australia' }	37	{
205	{'Basic' }	12	0030-07-22	0025-06-23	{'Germany' }	30	{
206	{'Premium' }	11	0006-08-22	0025-06-23	{'France' }	40	{
207	{'Basic' }	15	0016-09-22	0024-06-23	{'Brazil' }	45	{
208	{'Standard'}	15	0005-01-23	0023-06-23	{'Mexico' }	36	{

209	{'Premium' }	11	0010-12-22	0024-06-23	{'Spain' }	41	{
210	{'Basic' }	14	0022-11-22	0026-06-23	{'Italy' }	49	{
211	{'Premium' }	15	0015-11-22	0027-06-23	{'United States' }	40	{
212	{'Basic' }	11	0028-10-22	0026-06-23	{'Canada' }	36	{
213	{'Standard'}	12	0008-09-22	0024-06-23	{'United Kingdom'}	49	{
214	{'Standard'}	13	0030-06-22	0028-06-23	{'Australia' }	43	{
215	{'Basic' }	13	0002-09-22	0027-06-23	{'Germany' }	50	{
216	{'Premium' }	14	0008-10-22	0024-06-23	{'France' }	51	{
217	{'Basic' }	15	0013-11-22	0025-06-23	{'Brazil' }	44	{
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737        {'Basic'   }              15        0002-07-22    0030-06-23    {'Brazil'          }    43    {
738        {'Standard'}              14        0026-06-22    0001-07-23    {'Mexico'          }    44    {
739        {'Standard'}              13        0021-06-22    0028-06-23    {'Spain'           }    27    {
740        {'Basic'   }              14        0016-06-22    0029-06-23    {'Italy'           }    30    {
741        {'Premium' }              14        0009-06-22    0030-06-23    {'Spain'           }    47    {
742        {'Basic'   }              13        0010-06-22    0030-06-23    {'Spain'           }    51    {
743        {'Standard'}              15        0010-06-22    0028-06-23    {'United States' }    31    {
744        {'Premium' }              13        0011-06-22    0029-06-23    {'Canada'          }    34    {
745        {'Basic'   }              11        0012-06-22    0030-06-23    {'United States' }    28    {
746        {'Basic'   }              15        0015-06-22    0030-06-23    {'United States' }    32    {
747        {'Basic'   }              11        0025-06-22    0029-06-23    {'Canada'          }    41    {
748        {'Standard'}              13        0030-06-22    0028-06-23    {'United Kingdom'}    40    {
749        {'Premium' }              12        0006-07-22    0030-06-23    {'Australia'       }    46    {
750        {'Basic'   }              13        0009-07-22    0029-06-23    {'Germany'         }    47    {
751        {'Basic'   }              14        0018-07-22    0029-06-23    {'Fran...
```

```matlab
% Check for duplicates
numDuplicates = height(NetflixUserbase) - height(unique(NetflixUserbase, 'rows'));

if numDuplicates > 0
    disp(['Duplicates found: ', num2str(numDuplicates), ' duplicate rows.']);
else
    disp('No duplicates found.');
end
```

No duplicates found.

Handling Missing Values

```matlab
missingSummary = sum(ismissing(NoDuplicates));
disp('Summary of missing values in each column:');
```

Summary of missing values in each column:

```matlab
disp(missingSummary);
```

    0   0   0   0   0   0   0   0   0   0

Detecting Outliers

```matlab
% Define numeric columns (assuming the dataset contains numeric columns)
```

```matlab
numericData = NetflixUserbase(:, varfun(@isnumeric, NetflixUserbase,
'OutputFormat', 'uniform'));

% Initialize logical array to mark outliers
outliers = false(size(numericData));

% Detect outliers using Z-score method
for i = 1:width(numericData)
    columnData = numericData{:, i};
    zScores = (columnData - mean(columnData, 'omitnan')) / std(columnData,
'omitnan');
    outliers(:, i) = abs(zScores) > 3; % Mark values with Z-score > 3 as outliers
end

% Display outlier counts for each column
disp('Outlier counts for each numeric column:');
```

Outlier counts for each numeric column:

```matlab
disp(sum(outliers));
```

     0   0   0

```matlab
% Remove rows with any outliers
rowsWithOutliers = any(outliers, 2); % Rows with at least one outlier
dataCleaned = NetflixUserbase(~rowsWithOutliers, :); % Retain rows without outliers

% Display cleaned dataset
disp('Dataset after removing outliers:');
```

Dataset after removing outliers:

```matlab
disp(dataCleaned);
```

UserID	SubscriptionType	MonthlyRevenue	JoinDate	LastPaymentDate	Country	Age	
1	{'Basic' }	10	0015-01-22	0010-06-23	{'United States' }	28	{
2	{'Premium' }	15	0005-09-21	0022-06-23	{'Canada' }	35	{
3	{'Standard'}	12	0028-02-23	0027-06-23	{'United Kingdom'}	42	{
4	{'Standard'}	12	0010-07-22	0026-06-23	{'Australia' }	51	{
5	{'Basic' }	10	0001-05-23	0028-06-23	{'Germany' }	33	{
6	{'Premium' }	15	0018-03-22	0027-06-23	{'France' }	29	{
7	{'Standard'}	12	0009-12-21	0025-06-23	{'Brazil' }	46	{
8	{'Basic' }	10	0002-04-23	0024-06-23	{'Mexico' }	39	{
9	{'Standard'}	12	0020-10-22	0023-06-23	{'Spain' }	37	{
10	{'Premium' }	15	0007-01-23	0022-06-23	{'Italy' }	44	{
11	{'Basic' }	10	0016-05-22	0022-06-23	{'United States' }	31	{
12	{'Premium' }	15	0023-03-23	0028-06-23	{'Canada' }	45	{
13	{'Standard'}	12	0030-11-21	0027-06-23	{'United Kingdom'}	48	{
14	{'Basic' }	10	0001-08-22	0026-06-23	{'Australia' }	27	{
15	{'Standard'}	12	0009-05-23	0028-06-23	{'Germany' }	38	{
16	{'Premium' }	15	0007-04-22	0027-06-23	{'France' }	36	{
17	{'Basic' }	10	0024-01-22	0025-06-23	{'Brazil' }	30	{
18	{'Standard'}	12	0018-10-21	0024-06-23	{'Mexico' }	43	{
19	{'Premium' }	15	0015-02-23	0023-06-23	{'Spain' }	32	{
20	{'Basic' }	10	0027-05-23	0022-06-23	{'Italy' }	41	{

21	{'Premium' }	15	0010-06-23	0022-06-23	{'United States' }	26	{
22	{'Basic' }	10	0022-07-22	0028-06-23	{'Canada' }	34	{
23	{'Standard'}	12	0005-12-21	0027-06-23	{'United Kingdom'}	49	{
24	{'Standard'}	12	0003-04-22	0026-06-23	{'Australia' }	31	{
25	{'Basic' }	10	0014-03-23	0028-06-23	{'Germany' }	40	{
26	{'Premium' }	15	0012-01-22	0027-06-23	{'France' }	29	{
27	{'Basic' }	10	0029-08-22	0025-06-23	{'Brazil' }	47	{
28	{'Standard'}	12	0027-09-21	0024-06-23	{'Mexico' }	33	{
29	{'Premium' }	15	0019-12-22	0023-06-23	{'Spain' }	36	{
30	{'Basic' }	10	0017-05-23	0022-06-23	{'Italy' }	42	{
31	{'Premium' }	15	0003-02-23	0022-06-23	{'United States' }	28	{
32	{'Basic' }	10	0007-07-22	0028-06-23	{'Canada' }	37	{
33	{'Standard'}	12	0021-01-22	0027-06-23	{'United Kingdom'}	41	{
34	{'Standard'}	12	0025-05-22	0026-06-23	{'Australia' }	29	{
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39	{'Premium' }	15	0028-12-22	0023-06-23	{'Spain' }	27	{
40	{'Basic' }	10	0007-03-23	0022-06-23	{'Italy' }	48	{
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45	{'Basic' }	10	0028-01-23	0028-06-23	{'Germany' }	43	{
46	{'Premium' }	15	0023-02-22	0027-06-23	{'France' }	34	{
47	{'Basic' }	10	0005-10-22	0025-06-23	{'Brazil' }	39	{
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49	{'Premium' }	15	0010-11-22	0023-06-23	{'Spain' }	28	{
50	{'Basic' }	10	0002-06-23	0022-06-23	{'Italy' }	45	{
51	{'Premium' }	15	0027-02-23	0022-06-23	{'United States' }	30	{
52	{'Basic' }	10	0029-08-22	0028-06-23	{'Canada' }	37	{
53	{'Standard'}	12	0013-01-22	0027-06-23	{'United Kingdom'}	41	{
54	{'Standard'}	12	0030-06-22	0026-06-23	{'Australia' }	29	{
55	{'Basic' }	10	0020-04-23	0028-06-23	{'Germany' }	39	{
56	{'Premium' }	15	0015-03-22	0027-06-23	{'France' }	36	{
57	{'Basic' }	10	0001-10-22	0025-06-23	{'Brazil' }	46	{
58	{'Standard'}	12	0008-10-21	0024-06-23	{'Mexico' }	34	{
59	{'Premium' }	15	0003-12-22	0023-06-23	{'Spain' }	27	{
60	{'Basic' }	10	0014-06-23	0022-06-23	{'Italy' }	42	{
61	{'Premium' }	15	0008-02-23	0022-06-23	{'United States' }	28	{
62	{'Basic' }	10	0003-08-22	0028-06-23	{'Canada' }	37	{
63	{'Standard'}	12	0023-02-22	0027-06-23	{'United Kingdom'}	41	{
64	{'Standard'}	12	0020-06-22	0026-06-23	{'Australia' }	29	{
65	{'Basic' }	10	0029-03-23	0028-06-23	{'Germany' }	40	{
66	{'Premium' }	15	0030-01-22	0027-06-23	{'France' }	29	{
67	{'Basic' }	10	0018-09-22	0025-06-23	{'Brazil' }	47	{
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69	{'Premium' }	15	0023-12-22	0023-06-23	{'Spain' }	36	{
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71	{'Basic' }	10	0026-01-22	0020-06-23	{'United States' }	27	{
72	{'Basic' }	10	0011-10-22	0022-06-23	{'Canada' }	31	{
73	{'Standard'}	12	0027-09-22	0026-06-23	{'United Kingdom'}	28	{
74	{'Premium' }	13	0014-12-22	0025-06-23	{'Australia' }	41	{
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76	{'Basic' }	13	0029-12-21	0026-06-23	{'France' }	51	{
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79	{'Standard'}	15	0003-12-22	0025-06-23	{'Spain' }	43	{
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81	{'Premium' }	10	0011-01-23	0024-06-23	{'United States' }	37	{
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83	{'Basic' }	10	0020-10-22	0026-06-23	{'United Kingdom'}	46	{
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85	{'Premium' }	10	0006-04-23	0027-06-23	{'Germany' }	37	{
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104	{'Premium' }	10	0008-06-22	0025-06-23	{'Australia' }	38	{
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115	{'Basic' }	11	0005-04-22	0025-06-23	{'Germany' }	50	{
116	{'Premium' }	14	0019-05-22	0023-06-23	{'France' }	45	{
117	{'Basic' }	15	0030-10-21	0023-06-23	{'Brazil' }	40	{
118	{'Standard'}	12	0007-08-22	0027-06-23	{'Mexico' }	33	{
119	{'Standard'}	11	0020-09-22	0025-06-23	{'Spain' }	44	{
120	{'Basic' }	10	0018-10-22	0025-06-23	{'Italy' }	30	{
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122	{'Basic' }	11	0003-05-22	0028-06-23	{'Canada' }	51	{
123	{'Standard'}	13	0025-05-22	0026-06-23	{'United Kingdom'}	49	{
124	{'Premium' }	15	0005-11-22	0025-06-23	{'Australia' }	43	{
125	{'Basic' }	12	0021-08-22	0024-06-23	{'Germany' }	42	{
126	{'Premium' }	13	0021-09-22	0023-06-23	{'France' }	45	{
127	{'Basic' }	10	0023-11-21	0023-06-23	{'Brazil' }	36	{
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135	{'Basic' }	13	0018-07-22	0026-06-23	{'Germany' }	47	{
136	{'Premium' }	12	0013-09-22	0026-06-23	{'France' }	41	{
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138	{'Standard'}	15	0021-09-22	0023-06-23	{'Mexico' }	28	{
139	{'Standard'}	13	0024-03-23	0023-06-23	{'Spain' }	40	{
140	{'Basic' }	12	0002-05-22	0023-06-23	{'Italy' }	43	{
141	{'Premium' }	12	0011-05-22	0027-06-23	{'United States' }	42	{
142	{'Basic' }	14	0010-06-22	0022-06-23	{'Canada' }	28	{
143	{'Standard'}	14	0031-08-22	0024-06-23	{'United Kingdom'}	30	{
144	{'Premium' }	10	0017-08-22	0026-06-23	{'Australia' }	33	{
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161	{'Basic' }	10	0023-10-22	0024-06-23	{'United States' }	45	{
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172	{'Basic' }	12	0027-04-22	0026-06-23	{'Canada' }	39	{
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189	{'Premium' }	13	0002-09-22	0026-06-23	{'Spain' }	47	{
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198	{'Standard'}	10	0018-10-22	0027-06-23	{'Mexico' }	49	{
199	{'Premium' }	14	0031-10-22	0025-06-23	{'Spain' }	39	{
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208	{'Standard'}	15	0005-01-23	0023-06-23	{'Mexico' }	36	{
209	{'Premium' }	11	0010-12-22	0024-06-23	{'Spain' }	41	{
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212	{'Basic' }	11	0028-10-22	0026-06-23	{'Canada' }	36	{

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215	{'Basic' }	13	0002-09-22	0027-06-23	{'Germany' }	50	{
216	{'Premium' }	14	0008-10-22	0024-06-23	{'France' }	51	{
217	{'Basic' }	15	0013-11-22	0025-06-23	{'Brazil' }	44	{
218	{'Standard'}	12	0015-11-22	0028-06-23	{'Mexico' }	27	{
219	{'Premium' }	12	0016-11-22	0025-06-23	{'Spain' }	46	{
220	{'Basic' }	12	0026-11-22	0027-06-23	{'Italy' }	29	{
221	{'Basic' }	12	0026-11-22	0025-06-23	{'United States' }	47	{
222	{'Basic' }	10	0012-12-22	0026-06-23	{'Canada' }	48	{
223	{'Standard'}	12	0008-01-23	0025-06-23	{'United Kingdom'}	34	{
224	{'Premium' }	15	0027-11-22	0029-06-23	{'Australia' }	40	{
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742     {'Basic'   }          13          0010-06-22    0030-06-23    {'Spain'          }    51    {
743     {'Standard'}          15          0010-06-22    0028-06-23    {'United States' }    31    {
744     {'Premium' }          13          0011-06-22    0029-06-23    {'Canada'         }    34    {
745     {'Basic'   }          11          0012-06-22    0030-06-23    {'United States' }    28    {
746     {'Basic'   }          15          0015-06-22    0030-06-23    {'United States' }    32    {
747     {'Basic'   }          11          0025-06-22    0029-06-23    {'Canada'         }    41    {
748     {'Standard'}          13          0030-06-22    0028-06-23    {'United Kingdom'}    40    {
749     {'Premium' }          12          0006-07-22    0030-06-23    {'Australia'      }    46    {
750     {'Basic'   }          13          0009-07-22    0029-06-23    {'Germany'        }    47    {
751     {'Basic'   }          14          0018-07-22    0029-06-23    {'Fran...
```

GEOGRAPHICAL ANALYSIS

Let's plot using geoplot to see the actual choropleth maps representation which countries are colored based on their revenue.

```
countryRevenue = varfun(@sum, NetflixUserbase, 'InputVariables', 'MonthlyRevenue',
...
                        'GroupingVariables', 'Country');
countryRevenue = sortrows(countryRevenue, 'sum_MonthlyRevenue', 'descend');
disp(countryRevenue)
```

```
        Country          GroupCount    sum_MonthlyRevenue

    _____     _____    _____

    {'United States' }      451              5664
    {'Spain'         }      451              5662
    {'Canada'        }      317              3950
    {'United Kingdom'}      183              2318
    {'Italy'         }      183              2317
    {'France'        }      183              2307
    {'Brazil'        }      183              2285
    {'Australia'     }      183              2271
    {'Germany'       }      183              2260
    {'Mexico'        }      183              2237
```

```
subTypeDist = groupsummary(NetflixUserbase, {'Country', 'SubscriptionType'}, 'sum',
'MonthlyRevenue');
disp(subTypeDist);
```

```
        Country          SubscriptionType    GroupCount    sum_MonthlyRevenue

    _____     _____    _____    _____
```

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```
{'Australia'       }    {'Basic'   }        31            378
{'Australia'       }    {'Premium' }       101           1254
{'Australia'       }    {'Standard'}        51            639
{'Brazil'          }    {'Basic'   }       146           1824
{'Brazil'          }    {'Premium' }        33            410
{'Brazil'          }    {'Standard'}         4             51
{'Canada'          }    {'Basic'   }       145           1816
{'Canada'          }    {'Premium' }        88           1086
{'Canada'          }    {'Standard'}        84           1048
{'France'          }    {'Basic'   }        36            445
{'France'          }    {'Premium' }       147           1862
{'Germany'         }    {'Basic'   }       149           1833
{'Germany'         }    {'Premium' }         3             36
{'Germany'         }    {'Standard'}        31            391
{'Italy'           }    {'Basic'   }       176           2223
{'Italy'           }    {'Premium' }         4             55
{'Italy'           }    {'Standard'}         3             39
{'Mexico'          }    {'Basic'   }         4             46
{'Mexico'          }    {'Standard'}       179           2191
{'Spain'           }    {'Basic'   }       110           1386
{'Spain'           }    {'Premium' }       212           2689
{'Spain'           }    {'Standard'}       129           1587
{'United Kingdom'}      {'Basic'   }         3             35
{'United Kingdom'}      {'Standard'}       180           2283
{'United States' }      {'Basic'   }       199           2483
{'United States' }      {'Premium' }       145           1837
{'United States' }      {'Standard'}       107           1344
```

.zip files is downloaded from Natural Earth > Cultural Vector 1.110m > Admin 0 – Countries. Make sure the folder is unzip and the folder is open when running the code.

```
% Load country shapefile data
worldData = shaperead('ne_110m_admin_0_countries.shp', 'UseGeoCoords', true);

% Create a world map
figure('Position', [100, 100, 800, 600]); % Adjust the size as needed
axesm('mercator', 'MapLatLimit', [-90 90], 'MapLonLimit', [-180 180]);
setm(gca, 'Frame', 'on', 'Grid', 'on');
geoshow(worldData, 'FaceColor', [0.8 0.8 0.8]); % Plot countries

% Loop through each country to add labels
for k = 1:length(worldData)
    % Get the centroid of each country for label placement
    lat = mean(worldData(k).Lat(~isnan(worldData(k).Lat)));
    lon = mean(worldData(k).Lon(~isnan(worldData(k).Lon)));

    % Add country name as a label
    if ~isempty(worldData(k).NAME)
        textm(lat, lon, worldData(k).NAME, 'FontSize', 8, 'HorizontalAlignment',
'center');
    end
end

% Add title
```

```matlab
title('Country Names on World Map', 'FontSize', 14);

world = readgeotable('ne_110m_admin_0_countries.shp');
world.NAME = strrep(world.NAME, "United States of America", "United States");


% Extract top 10 revenue countries
[~, topIndices] = maxk(countryRevenue.sum_MonthlyRevenue, 10); % Indices of top 10
revenue values
topRevenueCountries = countryRevenue.Country(topIndices); % Names of countries in
the top 10
topRevenueValues = countryRevenue.sum_MonthlyRevenue(topIndices); % Revenue values
for top 10 countries

% Match top revenue countries with the shapefile data
[isMatch, idx] = ismember(world.NAME, topRevenueCountries);

% Add revenue data to the shapefile table (only for matched countries)
world.Revenue = NaN(height(world), 1); % Initialize revenue column
world.Revenue(isMatch) = topRevenueValues(idx(isMatch));

% Normalize revenue for coloring
validRevenueValues = world.Revenue(isMatch); % Only valid top 10 revenue values
minRevenue = min(validRevenueValues);
maxRevenue = max(validRevenueValues);
normalizedRevenue = (validRevenueValues - minRevenue) / (maxRevenue - minRevenue);

% Apply colormap
colormap(parula);
faceColors = parula(256); % Define a 256-color colormap
colorIdx = round(normalizedRevenue * 255) + 1;

% Plot only countries in the top 10 revenue list
hold on;
for k = 1:height(world)
    if ~isnan(world.Revenue(k)) % Only plot countries with top 10 revenue
        % Get the country shape
        countryShape = worldData(k);

        % Determine color based on revenue
        revenueColor = faceColors(colorIdx(k == find(isMatch)), :);

        % Plot the country with its corresponding color
        geoshow(countryShape, 'FaceColor', revenueColor);
    end
end
hold off;

% Add a colorbar
c = colorbar;
```
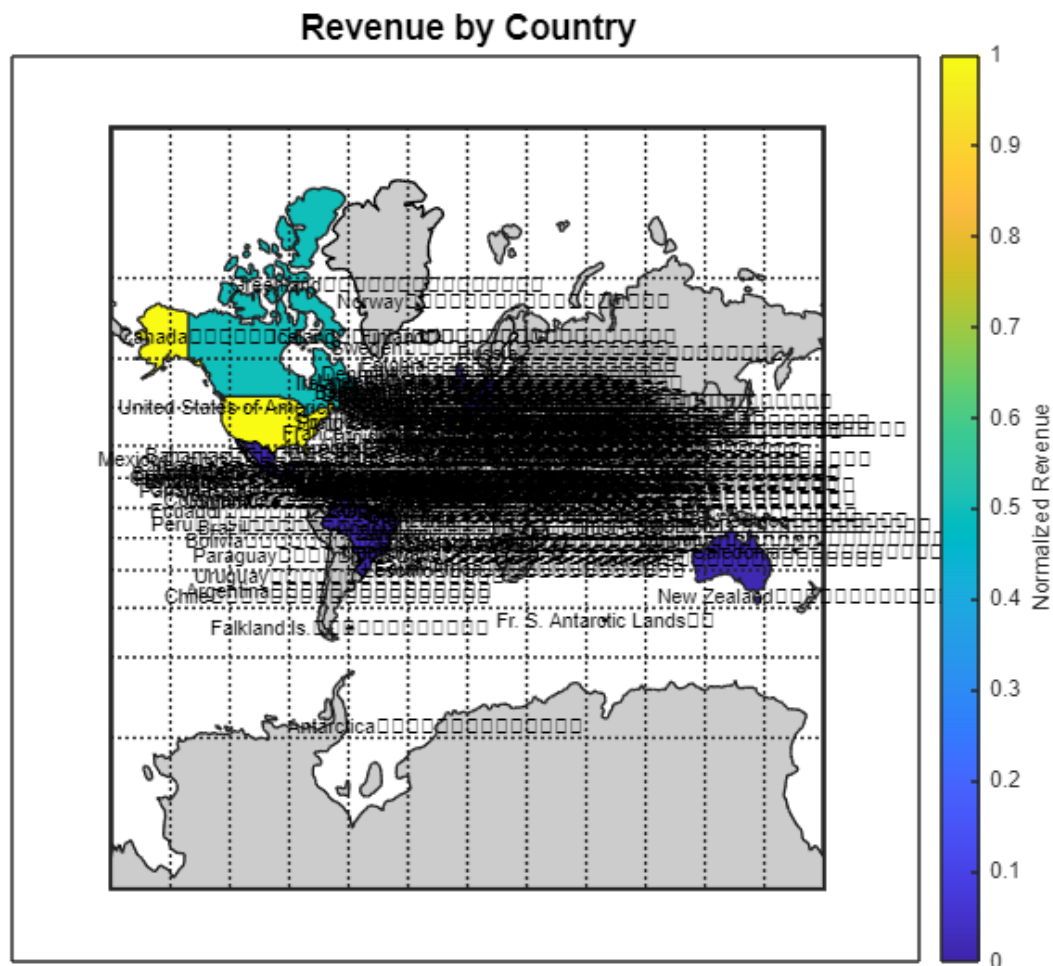
```matlab
c.Label.String = 'Normalized Revenue (Top 10 Countries)';
title('Top 10 Revenue by Country', 'FontSize', 14);
hold off;

% Add a colorbar
c = colorbar;
c.Label.String = 'Normalized Revenue';
title('Revenue by Country', 'FontSize', 14);
```


Revenue by Country

REVENUE CONTRIBUTION BY COUNTRY

From Total Revenue, how many percentage each of the country contributed. This can helps Netflix to focus more on promoting and improving customer experience in the country that contribute the highest to its company.

```matlab
countryRevenue.Properties.VariableNames{'sum_MonthlyRevenue'} = 'TotalRevenue' ;
countryRevenue.Properties.VariableNames{'GroupCount'} = 'TotalUsers';
```

```
% Extract data for pie chart
countries = countryRevenue.Country; % Country names
revenue = countryRevenue.TotalRevenue; % Total revenue for each country

% Calculate percentages for the labels
percentages = revenue / sum(revenue) * 100;
labels = strcat(countries, ' (', string(round(percentages, 1)), '%)');

% Plot the pie chart
figure;
pie(revenue, labels);
title('Revenue Contribution by Country');
```

Revenue Contribution by Country
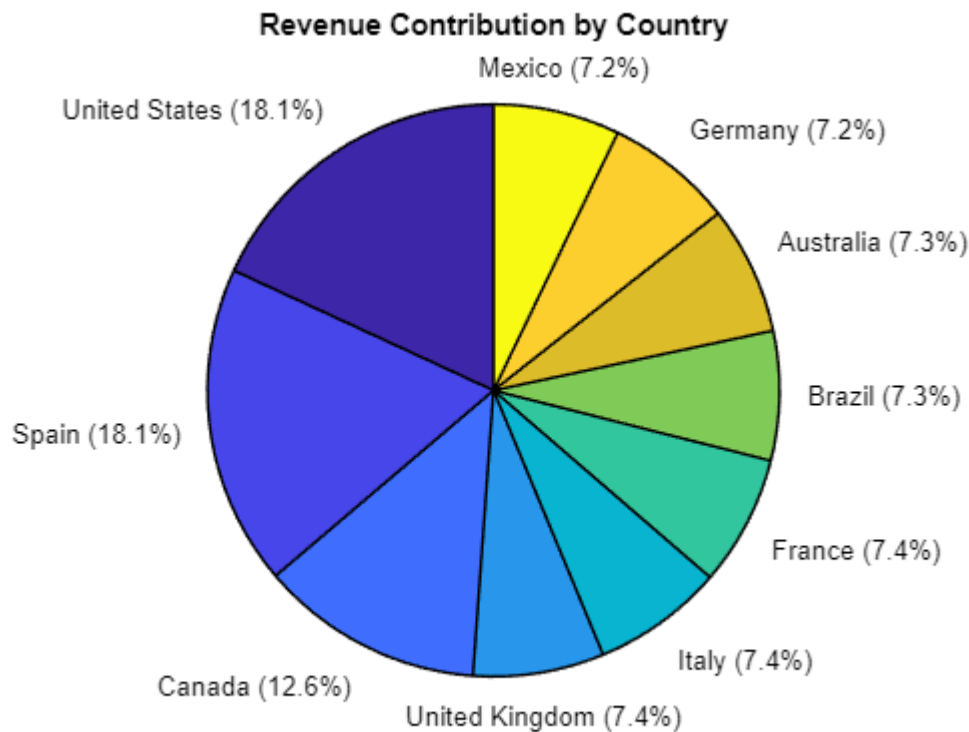
MARKET PENETRATION ANALYSIS

From World Bank Group, the Most Recent Value (Thousands) of people Population is used to calculate the percentage of a country's population that uses Netflix

```
countries = {'United States', 'Spain', 'Canada', 'United Kingdom', 'Italy', ...
            'France', 'Brazil', 'Australia', 'Germany', 'Mexico'}';

populations = [334.9, 48.3, 39.0, 68.4, 59.0, 68.3, 220.1, 26.4, 83.3, 129.7]';
populationTable = table(countries, populations, 'VariableNames', {'Country',
'Population (Thousands)'});
disp(populationTable);
```

```
        Country          Population (Thousands)

   _____    _____

   {'United States' }              334.9
   {'Spain'         }               48.3
   {'Canada'        }                 39
   {'United Kingdom'}               68.4
   {'Italy'         }                 59
   {'France'        }               68.3
   {'Brazil'        }              220.1
   {'Australia'     }               26.4
   {'Germany'       }               83.3
   {'Mexico'        }              129.7
```

```matlab
% table countryRevenue is combined with populationTable
marketPenetration = join(countryRevenue, populationTable, 'Keys', 'Country');
marketPenetration.Penetration = (marketPenetration.TotalUsers ./ marketPenetration.
("Population (Thousands)")) * 100; % in percentage
disp(marketPenetration);
```

```
        Country          TotalUsers    TotalRevenue    Population (Thousands)    Penetration

   _____    _____    _____    _____    _____

   {'United States' }        451           5664                  334.9               134.67
   {'Spain'         }        451           5662                   48.3               933.75
   {'Canada'        }        317           3950                     39               812.82
   {'United Kingdom'}        183           2318                   68.4               267.54
   {'Italy'         }        183           2317                     59               310.17
   {'France'        }        183           2307                   68.3               267.94
   {'Brazil'        }        183           2285                  220.1               83.144
   {'Australia'     }        183           2271                   26.4               693.18
   {'Germany'       }        183           2260                   83.3               219.69
   {'Mexico'        }        183           2237                  129.7               141.09
```

```matlab
figure;
bar3h(categorical(marketPenetration.Country), marketPenetration.Penetration);
xlabel('Country');
ylabel('Market Penetration (%)');
title('Netflix Market Penetration by Country');
```

Netflix Market Penetration by Country
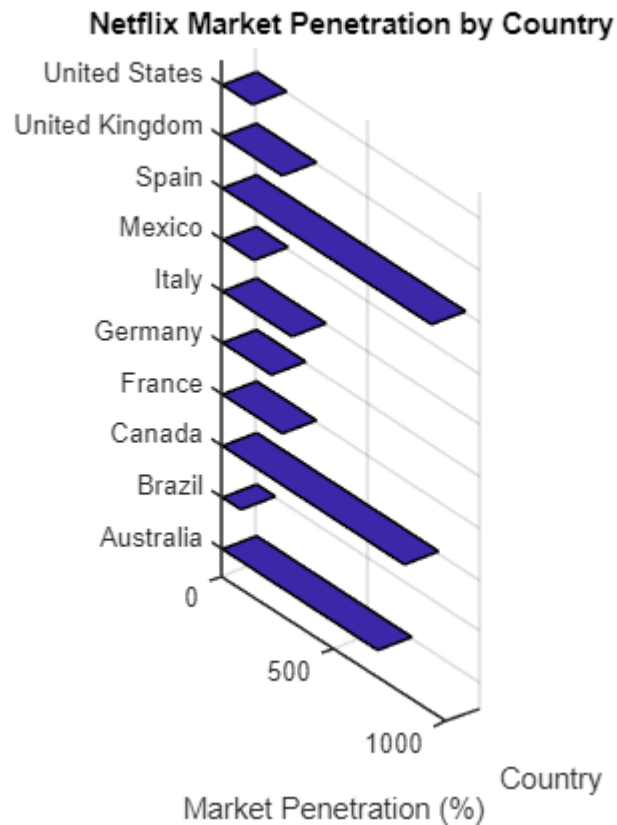
Subscription Type Analysis

Data Cleaning

```
% Group data by SubscriptionType and Device to count occurrences
deviceUsageTable = groupcounts(NetflixUserbase, {'SubscriptionType', 'Device'})
```

deviceUsageTable = 12×4 table

	SubscriptionType	Device	GroupCount	Percent
1	'Basic'	'Laptop'	259	10.3600
2	'Basic'	'Smart TV'	238	9.5200
3	'Basic'	'Smartphone'	251	10.0400
4	'Basic'	'Tablet'	251	10.0400
5	'Premium'	'Laptop'	192	7.6800
6	'Premium'	'Smart TV'	188	7.5200
7	'Premium'	'Smartphone'	171	6.8400
8	'Premium'	'Tablet'	182	7.2800
9	'Standard'	'Laptop'	185	7.4000
10	'Standard'	'Smart TV'	184	7.3600
11	'Standard'	'Smartphone'	199	7.9600

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	SubscriptionType	Device	GroupCount	Percent
12	'Standard'	'Tablet'	200	8

```
% Rename the columns for better readability
deviceUsageTable.Properties.VariableNames = {'SubscriptionType', 'Device',
'UserCount', 'Percent'}
```

deviceUsageTable = 12×4 table

	SubscriptionType	Device	UserCount	Percent
1	'Basic'	'Laptop'	259	10.3600
2	'Basic'	'Smart TV'	238	9.5200
3	'Basic'	'Smartphone'	251	10.0400
4	'Basic'	'Tablet'	251	10.0400
5	'Premium'	'Laptop'	192	7.6800
6	'Premium'	'Smart TV'	188	7.5200
7	'Premium'	'Smartphone'	171	6.8400
8	'Premium'	'Tablet'	182	7.2800
9	'Standard'	'Laptop'	185	7.4000
10	'Standard'	'Smart TV'	184	7.3600
11	'Standard'	'Smartphone'	199	7.9600
12	'Standard'	'Tablet'	200	8

```
% Define the desired order for SubscriptionType
categories = {'Basic', 'Standard', 'Premium'}
```

categories = 1×3 cell
'Basic'   'Standard'   'Premium'

```
% Extract unique devices
devices = unique(deviceUsageTable.Device)
```

devices = 4×1 cell
'Laptop'
'Smart TV'
'Smartphone'
'Tablet'

```
% Prepare data for grouped bar chart
dataMatrix = zeros(numel(categories), numel(devices)); % Preallocate a matrix to
store user counts
for i = 1:height(deviceUsageTable)
    rowIdx = find(strcmp(categories, deviceUsageTable.SubscriptionType(i))); %
Match subscription type to its ordered index
```

```
        colIdx = find(strcmp(devices, deviceUsageTable.Device(i))); % Match device to
its index
        dataMatrix(rowIdx, colIdx) = deviceUsageTable.UserCount(i) % Populate the data
matrix
end
```

```
dataMatrix = 3×4
   259     0     0     0
     0     0     0     0
     0     0     0     0
dataMatrix = 3×4
   259   238     0     0
     0     0     0     0
     0     0     0     0
dataMatrix = 3×4
   259   238   251     0
     0     0     0     0
     0     0     0     0
dataMatrix = 3×4
   259   238   251   251
     0     0     0     0
     0     0     0     0
dataMatrix = 3×4
   259   238   251   251
     0     0     0     0
   192     0     0     0
dataMatrix = 3×4
   259   238   251   251
     0     0     0     0
   192   188     0     0
dataMatrix = 3×4
   259   238   251   251
     0     0     0     0
   192   188   171     0
dataMatrix = 3×4
   259   238   251   251
     0     0     0     0
   192   188   171   182
dataMatrix = 3×4
   259   238   251   251
   185     0     0     0
   192   188   171   182
dataMatrix = 3×4
   259   238   251   251
   185   184     0     0
   192   188   171   182
dataMatrix = 3×4
   259   238   251   251
   185   184   199     0
   192   188   171   182
dataMatrix = 3×4
   259   238   251   251
   185   184   199   200
   192   188   171   182
```

```
% Plot the grouped bar chart
figure; % Opens a new figure window
bar(dataMatrix, 'grouped');
set(gca, 'XTickLabel', categories); % Set x-axis labels to the desired order
title('Device Usage by Subscription Type');
```

```matlab
xlabel('Subscription Type');
ylabel('Number of Users');
legend(devices, 'Location', 'Best');
```

Time Series Analysis

Data Cleaning

```matlab
% Convert the datetime array to a character array
incorrectJoinDate = string(NetflixUserbase.JoinDate);
incorrectLastPaymentDate = string(NetflixUserbase.LastPaymentDate);

% Define a function to adjust the date format
function fixedDate = adjustDateFormat(dateStr)
    % Extract day, month, and year from the incorrect format
    day = extractBetween(dateStr, 3, 4);    % Extract day (characters 3-4)
    month = extractBetween(dateStr, 6, 7); % Extract month (characters 6-7)
    year = extractBetween(dateStr, 9, 10); % Extract last two digits of the year

    % Correct the year to be in the 2000 century
    year = strcat('20', year);

    % Combine into the correct format 'DD-MM-20YY'
    fixedDate = strcat(day, '-', month, '-', year);
end

% Apply the function to adjust all dates in the 'JoinDate' column
fixedJoinDate = arrayfun(@adjustDateFormat, incorrectJoinDate, 'UniformOutput',
true); % output as a string array
fixedLastPaymentDate = arrayfun(@adjustDateFormat, incorrectLastPaymentDate,
'UniformOutput', true);

% Convert the fixed dates to MATLAB datetime format
NetflixUserbase.JoinDate = datetime(fixedJoinDate, 'InputFormat', 'dd-MM-yyyy');
NetflixUserbase.LastPaymentDate = datetime(fixedLastPaymentDate, 'InputFormat', 'dd-
MM-yyyy');

% Display the updated table
disp(NetflixUserbase);
```

UserID	SubscriptionType	MonthlyRevenue	JoinDate	LastPaymentDate	Country	Age
1	{'Basic' }	10	15-Jan-2022	10-Jun-2023	{'United States' }	28
2	{'Premium' }	15	05-Sep-2021	22-Jun-2023	{'Canada' }	35
3	{'Standard'}	12	28-Feb-2023	27-Jun-2023	{'United Kingdom'}	42
4	{'Standard'}	12	10-Jul-2022	26-Jun-2023	{'Australia' }	51
5	{'Basic' }	10	01-May-2023	28-Jun-2023	{'Germany' }	33
6	{'Premium' }	15	18-Mar-2022	27-Jun-2023	{'France' }	29
7	{'Standard'}	12	09-Dec-2021	25-Jun-2023	{'Brazil' }	46
8	{'Basic' }	10	02-Apr-2023	24-Jun-2023	{'Mexico' }	39
9	{'Standard'}	12	20-Oct-2022	23-Jun-2023	{'Spain' }	37
10	{'Premium' }	15	07-Jan-2023	22-Jun-2023	{'Italy' }	44

11	{'Basic' }	10	16-May-2022	22-Jun-2023	{'United States' }	31	-
12	{'Premium' }	15	23-Mar-2023	28-Jun-2023	{'Canada' }	45	-
13	{'Standard'}	12	30-Nov-2021	27-Jun-2023	{'United Kingdom'}	48	-
14	{'Basic' }	10	01-Aug-2022	26-Jun-2023	{'Australia' }	27	-
15	{'Standard'}	12	09-May-2023	28-Jun-2023	{'Germany' }	38	-
16	{'Premium' }	15	07-Apr-2022	27-Jun-2023	{'France' }	36	-
17	{'Basic' }	10	24-Jan-2022	25-Jun-2023	{'Brazil' }	30	-
18	{'Standard'}	12	18-Oct-2021	24-Jun-2023	{'Mexico' }	43	-
19	{'Premium' }	15	15-Feb-2023	23-Jun-2023	{'Spain' }	32	-
20	{'Basic' }	10	27-May-2023	22-Jun-2023	{'Italy' }	41	-
21	{'Premium' }	15	10-Jun-2023	22-Jun-2023	{'United States' }	26	-
22	{'Basic' }	10	22-Jul-2022	28-Jun-2023	{'Canada' }	34	-
23	{'Standard'}	12	05-Dec-2021	27-Jun-2023	{'United Kingdom'}	49	-
24	{'Standard'}	12	03-Apr-2022	26-Jun-2023	{'Australia' }	31	-
25	{'Basic' }	10	14-Mar-2023	28-Jun-2023	{'Germany' }	40	-
26	{'Premium' }	15	12-Jan-2022	27-Jun-2023	{'France' }	29	-
27	{'Basic' }	10	29-Aug-2022	25-Jun-2023	{'Brazil' }	47	-
28	{'Standard'}	12	27-Sep-2021	24-Jun-2023	{'Mexico' }	33	-
29	{'Premium' }	15	19-Dec-2022	23-Jun-2023	{'Spain' }	36	-
30	{'Basic' }	10	17-May-2023	22-Jun-2023	{'Italy' }	42	-
31	{'Premium' }	15	03-Feb-2023	22-Jun-2023	{'United States' }	28	-
32	{'Basic' }	10	07-Jul-2022	28-Jun-2023	{'Canada' }	37	-
33	{'Standard'}	12	21-Jan-2022	27-Jun-2023	{'United Kingdom'}	41	-
34	{'Standard'}	12	25-May-2022	26-Jun-2023	{'Australia' }	29	-
35	{'Basic' }	10	11-Apr-2023	28-Jun-2023	{'Germany' }	39	-
36	{'Premium' }	15	01-Mar-2022	27-Jun-2023	{'France' }	35	-
37	{'Basic' }	10	14-Sep-2022	25-Jun-2023	{'Brazil' }	45	-
38	{'Standard'}	12	05-Nov-2021	24-Jun-2023	{'Mexico' }	32	-
39	{'Premium' }	15	28-Dec-2022	23-Jun-2023	{'Spain' }	27	-
40	{'Basic' }	10	07-Mar-2023	22-Jun-2023	{'Italy' }	48	-
41	{'Premium' }	15	20-Jan-2023	22-Jun-2023	{'United States' }	31	-
42	{'Basic' }	10	15-Jun-2022	28-Jun-2023	{'Canada' }	40	-
43	{'Standard'}	12	07-Feb-2022	27-Jun-2023	{'United Kingdom'}	36	-
44	{'Standard'}	12	26-Apr-2022	26-Jun-2023	{'Australia' }	29	-
45	{'Basic' }	10	28-Jan-2023	28-Jun-2023	{'Germany' }	43	-
46	{'Premium' }	15	23-Feb-2022	27-Jun-2023	{'France' }	34	-
47	{'Basic' }	10	05-Oct-2022	25-Jun-2023	{'Brazil' }	39	-
48	{'Standard'}	12	15-Sep-2021	24-Jun-2023	{'Mexico' }	32	-
49	{'Premium' }	15	10-Nov-2022	23-Jun-2023	{'Spain' }	28	-
50	{'Basic' }	10	02-Jun-2023	22-Jun-2023	{'Italy' }	45	-
51	{'Premium' }	15	27-Feb-2023	22-Jun-2023	{'United States' }	30	-
52	{'Basic' }	10	29-Aug-2022	28-Jun-2023	{'Canada' }	37	-
53	{'Standard'}	12	13-Jan-2022	27-Jun-2023	{'United Kingdom'}	41	-
54	{'Standard'}	12	30-Jun-2022	26-Jun-2023	{'Australia' }	29	-
55	{'Basic' }	10	20-Apr-2023	28-Jun-2023	{'Germany' }	39	-
56	{'Premium' }	15	15-Mar-2022	27-Jun-2023	{'France' }	36	-
57	{'Basic' }	10	01-Oct-2022	25-Jun-2023	{'Brazil' }	46	-
58	{'Standard'}	12	08-Oct-2021	24-Jun-2023	{'Mexico' }	34	-
59	{'Premium' }	15	03-Dec-2022	23-Jun-2023	{'Spain' }	27	-
60	{'Basic' }	10	14-Jun-2023	22-Jun-2023	{'Italy' }	42	-
61	{'Premium' }	15	08-Feb-2023	22-Jun-2023	{'United States' }	28	-
62	{'Basic' }	10	03-Aug-2022	28-Jun-2023	{'Canada' }	37	-
63	{'Standard'}	12	23-Feb-2022	27-Jun-2023	{'United Kingdom'}	41	-
64	{'Standard'}	12	20-Jun-2022	26-Jun-2023	{'Australia' }	29	-
65	{'Basic' }	10	29-Mar-2023	28-Jun-2023	{'Germany' }	40	-
66	{'Premium' }	15	30-Jan-2022	27-Jun-2023	{'France' }	29	-
67	{'Basic' }	10	18-Sep-2022	25-Jun-2023	{'Brazil' }	47	-
68	{'Standard'}	12	09-Nov-2021	24-Jun-2023	{'Mexico' }	33	-
69	{'Premium' }	15	23-Dec-2022	23-Jun-2023	{'Spain' }	36	-
70	{'Basic' }	10	08-May-2023	22-Jun-2023	{'Italy' }	41	-
71	{'Basic' }	10	26-Jan-2022	20-Jun-2023	{'United States' }	27	-
72	{'Basic' }	10	11-Oct-2022	22-Jun-2023	{'Canada' }	31	-
73	{'Standard'}	12	27-Sep-2022	26-Jun-2023	{'United Kingdom'}	28	-
74	{'Premium' }	13	14-Dec-2022	25-Jun-2023	{'Australia' }	41	-

75	{'Basic' }	13	28-May-2022	26-Jun-2023	{'Germany' }	28	-
76	{'Basic' }	13	29-Dec-2021	26-Jun-2023	{'France' }	51	-
77	{'Premium' }	15	25-Dec-2022	23-Jun-2023	{'Brazil' }	45	-
78	{'Standard'}	15	18-Nov-2022	28-Jun-2023	{'Mexico' }	49	-
79	{'Standard'}	15	03-Dec-2022	25-Jun-2023	{'Spain' }	43	-
80	{'Basic' }	12	08-Nov-2022	22-Jun-2023	{'Italy' }	43	-
81	{'Premium' }	10	11-Jan-2023	24-Jun-2023	{'United States' }	37	-
82	{'Standard'}	12	07-Dec-2022	28-Jun-2023	{'Canada' }	35	-
83	{'Basic' }	10	20-Oct-2022	26-Jun-2023	{'United Kingdom'}	46	-
84	{'Standard'}	12	13-Apr-2023	25-Jun-2023	{'Australia' }	32	-
85	{'Premium' }	10	06-Apr-2023	27-Jun-2023	{'Germany' }	37	-
86	{'Basic' }	11	04-Mar-2022	25-Jun-2023	{'France' }	29	-
87	{'Premium' }	15	28-Dec-2021	23-Jun-2023	{'Brazil' }	45	-
88	{'Standard'}	12	27-Sep-2022	28-Jun-2023	{'Mexico' }	47	-
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588    {'Standard'}    11    07-Aug-2022    27-Jun-2023    {'Mexico'         }    31    -
589    {'Standard'}    15    04-Aug-2022    29-Jun-2023    {'Spain'          }    28    -
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594    {'Premium' }    12    06-Jun-2022    30-Jun-2023    {'Canada'         }    38    -
595    {'Basic'    }    10    11-Jun-2022    28-Jun-2023    {'United States' }    49    -
596    {'Basic'    }    14    18-Jun-2022    28-Jun-2023    {'United States' }    29    -
597    {'Basic'    }    13    27-Jun-2022    28-Jun-2023    {'Canada'         }    50    -
598    {'Standard'}    12    05-Jul-2022    29-Jun-2023    {'United Kingdom'}    29    -
599    {'Premium' }    15    06-Jul-2022    27-Jun-2023    {'Australia'      }    44    -
600    {'Basic'    }    14    16-Jun-2022    29-Jun-2023    {'Germany'        }    36    -
601    {'Basic'    }    14    05-Jun-2022    30-Jun-2023    {'France'         }    46    -
602    {'Premium' }    14    05-Jun-2022    29-Jun-2023    {'Brazil'         }    30    -
603    {'Standard'}    15    06-Jun-2022    27-Jun-2023    {'Mexico'         }    46    -
604    {'Standard'}    15    07-Jun-2022    28-Jun-2023    {'Spain'          }    33    -
605    {'Basic'    }    15    10-Jun-2022    29-Jun-2023    {'Italy'          }    46    -
606    {'Premium' }    14    13-Jun-2022    29-Jun-2023    {'Spain'          }    50    -
607    {'Standard'}    14    14-Jun-2022    27-Jun-2023    {'Spain'          }    27    -
608    {'Basic'    }    12    22-Jun-2022    28-Jun-2023    {'United States' }    48    -
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611    {'Basic'    }    15    11-Jul-2022    28-Jun-2023    {'United States' }    29    -
612    {'Premium' }    11    17-Jul-2022    27-Jun-2023    {'Canada'         }    36    -
613    {'Standard'}    12    27-Jul-2022    28-Jun-2023    {'United Kingdom'}    51    -
614    {'Basic'    }    15    14-Aug-2022    28-Jun-2023    {'Australia'      }    51    -
615    {'Standard'}    13    15-Aug-2022    27-Jun-2023    {'Germany'        }    43    -
616    {'Premium' }    14    02-Sep-2022    27-Jun-2023    {'France'         }    38    -
617    {'Basic'    }    11    05-Sep-2022    28-Jun-2023    {'Brazil'         }    45    -
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621    {'Premium' }    14    06-Sep-2022    29-Jun-2023    {'Spain'          }    49    -
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624    {'Standard'}    10    02-Sep-2022    30-Jun-2023    {'Canada'         }    42    -
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629    {'Premium' }    11    12-Oct-2022    29-Jun-2023    {'Australia'      }    39    -
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633    {'Standard'}    12    28-Sep-2022    29-Jun-2023    {'Mexico'         }    41    -
634    {'Standard'}    12    29-Sep-2022    29-Jun-2023    {'Spain'          }    51    -
635    {'Basic'    }    13    03-Oct-2022    27-Jun-2023    {'Italy'          }    29    -
636    {'Premium' }    10    28-Oct-2022    01-Jul-2023    {'Spain'          }    33    -
637    {'Basic'    }    12    14-Nov-2022    29-Jun-2023    {'Spain'          }    51    -
638    {'Standard'}    11    16-Nov-2022    01-Jul-2023    {'United States' }    38    -
639    {'Premium' }    10    17-Nov-2022    28-Jun-2023    {'Canada'         }    37    -
640    {'Basic'    }    13    20-Nov-2022    30-Jun-2023    {'United States' }    50    -
641    {'Premium' }    12    21-Nov-2022    29-Jun-2023    {'United States' }    33    -
642    {'Basic'    }    11    19-Nov-2022    01-Jul-2023    {'Canada'         }    27    -
643    {'Standard'}    11    28-Oct-2022    27-Jun-2023    {'United Kingdom'}    50    -
644    {'Standard'}    15    27-Oct-2022    29-Jun-2023    {'Australia'      }    47    -
645    {'Basic'    }    13    27-Oct-2022    29-Jun-2023    {'Germany'        }    41    -
646    {'Premium' }    10    27-Oct-2022    30-Jun-2023    {'France'         }    49    -
647    {'Basic'    }    15    25-Oct-2022    28-Jun-2023    {'Brazil'         }    32    -
648    {'Standard'}    10    17-Oct-2022    28-Jun-2023    {'Mexico'         }    38    -
649    {'Premium' }    14    20-Aug-2022    29-Jun-2023    {'Spain'          }    38    -
650    {'Basic'    }    15    16-Aug-2022    29-Jun-2023    {'Italy'          }    28    -
```

651	{'Premium' }	13	15-Aug-2022	29-Jun-2023	{'Spain' }	31
652	{'Basic' }	14	15-Aug-2022	29-Jun-2023	{'Spain' }	39
653	{'Standard'}	11	29-Jul-2022	29-Jun-2023	{'United States' }	28
654	{'Standard'}	12	17-Jul-2022	28-Jun-2023	{'Canada' }	30
655	{'Basic' }	11	26-Jul-2022	29-Jun-2023	{'United States' }	42
656	{'Premium' }	14	31-Jul-2022	29-Jun-2023	{'United States' }	33
657	{'Basic' }	14	03-Aug-2022	29-Jun-2023	{'Canada' }	34
658	{'Standard'}	13	04-Aug-2022	29-Jun-2023	{'United Kingdom'}	49
659	{'Premium' }	13	03-Aug-2022	29-Jun-2023	{'Australia' }	41
660	{'Basic' }	12	27-Jun-2022	29-Jun-2023	{'Germany' }	28
661	{'Premium' }	14	27-Jun-2022	28-Jun-2023	{'France' }	49
662	{'Basic' }	15	15-Jun-2022	29-Jun-2023	{'Brazil' }	49
663	{'Standard'}	11	13-Jun-2022	29-Jun-2023	{'Mexico' }	36
664	{'Standard'}	11	12-Jun-2022	30-Jun-2023	{'Spain' }	31
665	{'Basic' }	10	18-Jun-2022	28-Jun-2023	{'Italy' }	38
666	{'Premium' }	15	26-Jun-2022	29-Jun-2023	{'Spain' }	34
667	{'Basic' }	11	30-Jun-2022	30-Jun-2023	{'Spain' }	51
668	{'Standard'}	13	03-Jul-2022	30-Jun-2023	{'United States' }	49
669	{'Premium' }	13	19-Jun-2022	28-Jun-2023	{'Canada' }	27
670	{'Basic' }	10	08-Jun-2022	29-Jun-2023	{'United States' }	38
671	{'Basic' }	10	08-Jun-2022	30-Jun-2023	{'United States' }	51
672	{'Basic' }	14	09-Jun-2022	30-Jun-2023	{'Canada' }	47
673	{'Standard'}	15	09-Jun-2022	27-Jun-2023	{'United Kingdom'}	37
674	{'Premium' }	13	10-Jun-2022	28-Jun-2023	{'Australia' }	37
675	{'Basic' }	11	11-Jun-2022	29-Jun-2023	{'Germany' }	39
676	{'Basic' }	11	13-Jun-2022	29-Jun-2023	{'France' }	31
677	{'Premium' }	13	17-Jun-2022	28-Jun-2023	{'Brazil' }	36
678	{'Standard'}	15	27-Jun-2022	28-Jun-2023	{'Mexico' }	42
679	{'Standard'}	11	05-Jul-2022	29-Jun-2023	{'Spain' }	49
680	{'Basic' }	15	07-Jul-2022	29-Jun-2023	{'Italy' }	44
681	{'Premium' }	11	16-Jul-2022	28-Jun-2023	{'Spain' }	33
682	{'Standard'}	11	23-Jul-2022	27-Jun-2023	{'Spain' }	42
683	{'Basic' }	13	03-Aug-2022	29-Jun-2023	{'United States' }	39
684	{'Standard'}	10	11-Aug-2022	29-Jun-2023	{'Canada' }	49
685	{'Premium' }	12	15-Aug-2022	30-Jun-2023	{'United States' }	31
686	{'Basic' }	14	18-Aug-2022	28-Jun-2023	{'United States' }	37
687	{'Premium' }	13	26-Aug-2022	29-Jun-2023	{'Canada' }	30
688	{'Standard'}	10	03-Sep-2022	28-Jun-2023	{'United Kingdom'}	42
689	{'Basic' }	15	04-Sep-2022	29-Jun-2023	{'Australia' }	37
690	{'Standard'}	15	05-Sep-2022	30-Jun-2023	{'Germany' }	36
691	{'Premium' }	11	01-Sep-2022	29-Jun-2023	{'France' }	28
692	{'Basic' }	15	31-Aug-2022	30-Jun-2023	{'Brazil' }	36
693	{'Standard'}	14	01-Sep-2022	29-Jun-2023	{'Mexico' }	31
694	{'Premium' }	14	17-Sep-2022	01-Jul-2023	{'Spain' }	46
695	{'Basic' }	13	21-Sep-2022	28-Jun-2023	{'Italy' }	28
696	{'Premium' }	15	29-Sep-2022	01-Jul-2023	{'Spain' }	31
697	{'Basic' }	12	06-Oct-2022	29-Jun-2023	{'Spain' }	43
698	{'Standard'}	10	12-Oct-2022	02-Jul-2023	{'United States' }	28
699	{'Standard'}	13	07-Oct-2022	30-Jun-2023	{'Canada' }	32
700	{'Basic' }	12	04-Oct-2022	30-Jun-2023	{'United States' }	31
701	{'Premium' }	11	24-Sep-2022	28-Jun-2023	{'United States' }	45
702	{'Basic' }	14	25-Sep-2022	01-Jul-2023	{'Canada' }	36
703	{'Standard'}	14	27-Sep-2022	30-Jun-2023	{'United Kingdom'}	35
704	{'Premium' }	13	30-Sep-2022	01-Jul-2023	{'Australia' }	27
705	{'Basic' }	13	04-Oct-2022	28-Jun-2023	{'Germany' }	32
706	{'Premium' }	12	24-Oct-2022	01-Jul-2023	{'France' }	46
707	{'Basic' }	12	28-Oct-2022	30-Jun-2023	{'Brazil' }	36
708	{'Standard'}	13	02-Nov-2022	01-Jul-2023	{'Mexico' }	39
709	{'Standard'}	12	07-Nov-2022	28-Jun-2023	{'Spain' }	48
710	{'Basic' }	10	10-Nov-2022	30-Jun-2023	{'Italy' }	48
711	{'Premium' }	14	15-Nov-2022	29-Jun-2023	{'Spain' }	27
712	{'Basic' }	13	08-Nov-2022	01-Jul-2023	{'Spain' }	45
713	{'Standard'}	10	01-Nov-2022	27-Jun-2023	{'United States' }	30
714	{'Premium' }	15	30-Oct-2022	29-Jun-2023	{'Canada' }	29

```
715        {'Basic'   }        12        28-Oct-2022        29-Jun-2023        {'United States' }        43
716        {'Premium' }        10        26-Oct-2022        30-Jun-2023        {'United States' }        43
717        {'Basic'   }        15        18-Oct-2022        29-Jun-2023        {'Canada'        }        39
718        {'Standard'}        14        30-Sep-2022        30-Jun-2023        {'United Kingdom'}        27
719        {'Standard'}        10        03-Sep-2022        29-Jun-2023        {'Australia'     }        33
720        {'Basic'   }        10        23-Aug-2022        29-Jun-2023        {'Germany'       }        32
721        {'Premium' }        10        16-Aug-2022        29-Jun-2023        {'France'        }        37
722        {'Basic'   }        13        11-Aug-2022        30-Jun-2023        {'Brazil'        }        45
723        {'Standard'}        10        01-Aug-2022        30-Jun-2023        {'Mexico'        }        40
724        {'Premium' }        14        01-Aug-2022        29-Jun-2023        {'Spain'         }        44
725        {'Basic'   }        12        01-Aug-2022        29-Jun-2023        {'Italy'         }        29
726        {'Premium' }        14        02-Aug-2022        30-Jun-2023        {'Spain'         }        50
727        {'Basic'   }        11        04-Aug-2022        29-Jun-2023        {'Spain'         }        32
728        {'Standard'}        14        04-Aug-2022        29-Jun-2023        {'United States' }        39
729        {'Standard'}        15        07-Jul-2022        30-Jun-2023        {'Canada'        }        43
730        {'Basic'   }        12        27-Jun-2022        30-Jun-2023        {'United States' }        49
731        {'Premium' }        13        19-Jun-2022        29-Jun-2023        {'United States' }        30
732        {'Basic'   }        12        19-Jun-2022        29-Jun-2023        {'Canada'        }        47
733        {'Standard'}        10        18-Jun-2022        29-Jun-2023        {'United Kingdom'}        51
734        {'Premium' }        14        19-Jun-2022        30-Jun-2023        {'Australia'     }        40
735        {'Basic'   }        14        24-Jun-2022        28-Jun-2023        {'Germany'       }        40
736        {'Premium' }        11        30-Jun-2022        30-Jun-2023        {'France'        }        49
737        {'Basic'   }        15        02-Jul-2022        30-Jun-2023        {'Brazil'        }        43
738        {'Standard'}        14        26-Jun-2022        01-Jul-2023        {'Mexico'        }        44
739        {'Standard'}        13        21-Jun-2022        28-Jun-2023        {'Spain'         }        27
740        {'Basic'   }        14        16-Jun-2022        29-Jun-2023        {'Italy'         }        30
741        {'Premium' }        14        09-Jun-2022        30-Jun-2023        {'Spain'         }        47
742        {'Basic'   }        13        10-Jun-2022        30-Jun-2023        {'Spain'         }        51
743        {'Standard'}        15        10-Jun-2022        28-Jun-2023        {'United States' }        31
744        {'Premium' }        13        11-Jun-2022        29-Jun-2023        {'Canada'        }        34
745        {'Basic'   }        11        12-Jun-2022        30-Jun-2023        {'United States' }        28
746        {'Basic'   }        15        15-Jun-2022        30-Jun-2023        {'United States' }        32
```

The first plot helps identify whether the retention period is increasing, decreasing, or stable over time

```
% Calculate the duration (in days) between JoinDate and LastPaymentDate
NetflixUserbase.ActivityDuration = days(NetflixUserbase.LastPaymentDate -
NetflixUserbase.JoinDate)
```

NetflixUserbase = 2500×11 table

...

	UserID	SubscriptionType	MonthlyRevenue	JoinDate	LastPaymentDate
1	1	'Basic'	10	15-Jan-2022	10-Jun-2023
2	2	'Premium'	15	05-Sep-2021	22-Jun-2023
3	3	'Standard'	12	28-Feb-2023	27-Jun-2023
4	4	'Standard'	12	10-Jul-2022	26-Jun-2023
5	5	'Basic'	10	01-May-2023	28-Jun-2023
6	6	'Premium'	15	18-Mar-2022	27-Jun-2023
7	7	'Standard'	12	09-Dec-2021	25-Jun-2023
8	8	'Basic'	10	02-Apr-2023	24-Jun-2023
9	9	'Standard'	12	20-Oct-2022	23-Jun-2023
10	10	'Premium'	15	07-Jan-2023	22-Jun-2023

	UserID	SubscriptionType	MonthlyRevenue	JoinDate	LastPaymentDate
11	11	'Basic'	10	16-May-2022	22-Jun-2023
12	12	'Premium'	15	23-Mar-2023	28-Jun-2023
13	13	'Standard'	12	30-Nov-2021	27-Jun-2023
14	14	'Basic'	10	01-Aug-2022	26-Jun-2023

.
.
.

```matlab
% Group data by JoinDate to analyze trends over time
[uniqueJoinDates, ~, groupIdx] = unique(NetflixUserbase.JoinDate);
averageDurations = accumarray(groupIdx, NetflixUserbase.ActivityDuration, [], @mean)
```

averageDurations = 300×1
    655
    647
    635
    624
    614
    601
    596
    592
    577
    574
     .
     .
     .

```matlab
% Plot the average activity duration over JoinDate
figure;
plot(uniqueJoinDates, averageDurations, '-o');
xlabel('Join Date');
ylabel('Average Activity Duration (days)');
title('Average User Activity Duration Over Time');
grid on;
```

Average User Activity Duration Over Time
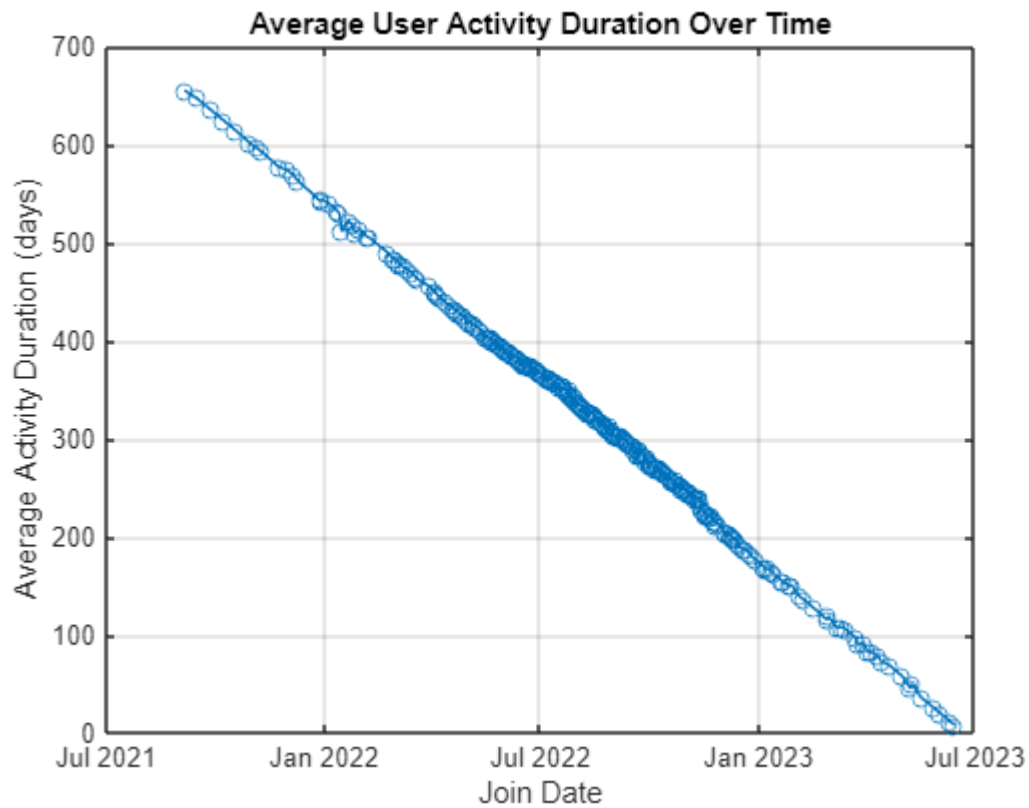
```
%The histogram reveals how retention is distributed among users (e.g., short-term
vs. long-term users)
% Optional: Histogram of user retention periods
figure;
histogram(NetflixUserbase.ActivityDuration, 20); % 20 bins for visualization
xlabel('Activity Duration (days)');
ylabel('Frequency');
title('Distribution of User Retention Periods');
grid on;
```

Distribution of User Retention Periods
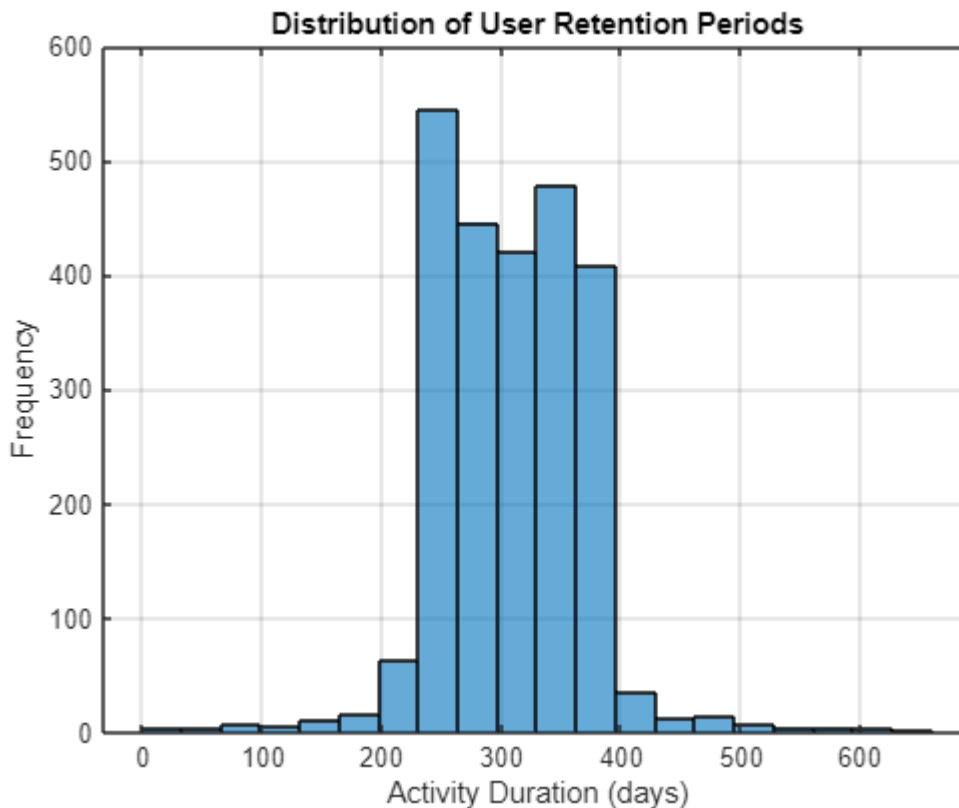
Churn rate & prediction

To find the rate of the short-term churn rate & long-term churn rate.

To predict the churn users based on the want to identify it as long-term churn or short-term churn

```
% Define churn label (active for less than 8 months)
churn_threshold1 = 243;

% calculate churn rate
churned_users1 = NetflixUserbase.ActivityDuration < churn_threshold1;
churn_rate1 = mean(churned_users1);

% Display the churn rate
fprintf('Churn Rate: %.2f%%\n', churn_rate1 * 100);
```

```
Churn Rate: 8.72%
```

```
%Define churn label
churn_threshold2 = 400; %(active for more than 400days)

%calculate churn rate
churned_users2 = NetflixUserbase.ActivityDuration > churn_threshold2;
churn_rate2 = mean(churned_users2);
fprintf('Long-Term Churn Rate: %.2f%%\n', churn_rate2* 100);
```

Long-Term Churn Rate: 3.00%

```matlab
%total churn rate for whole dataset
churn_rate3 = churn_rate1 + churn_rate2
```

churn_rate3 =
    0.1172

```matlab
% Display the churn rate
fprintf('Churn Rate: %.2f%%\n', churn_rate3 * 100);
```

Churn Rate: 11.72%

```matlab
% Display updated table with DaysActive and churn information
NetflixUserbase.Churn = churned_users1; % Add churn column to table
disp(NetflixUserbase);
```

UserID	SubscriptionType	MonthlyRevenue	JoinDate	LastPaymentDate	Country	Age
1	{'Basic' }	10	15-Jan-2022	10-Jun-2023	{'United States' }	28
2	{'Premium' }	15	05-Sep-2021	22-Jun-2023	{'Canada' }	35
3	{'Standard'}	12	28-Feb-2023	27-Jun-2023	{'United Kingdom'}	42
4	{'Standard'}	12	10-Jul-2022	26-Jun-2023	{'Australia' }	51
5	{'Basic' }	10	01-May-2023	28-Jun-2023	{'Germany' }	33
6	{'Premium' }	15	18-Mar-2022	27-Jun-2023	{'France' }	29
7	{'Standard'}	12	09-Dec-2021	25-Jun-2023	{'Brazil' }	46
8	{'Basic' }	10	02-Apr-2023	24-Jun-2023	{'Mexico' }	39
9	{'Standard'}	12	20-Oct-2022	23-Jun-2023	{'Spain' }	37
10	{'Premium' }	15	07-Jan-2023	22-Jun-2023	{'Italy' }	44
11	{'Basic' }	10	16-May-2022	22-Jun-2023	{'United States' }	31
12	{'Premium' }	15	23-Mar-2023	28-Jun-2023	{'Canada' }	45
13	{'Standard'}	12	30-Nov-2021	27-Jun-2023	{'United Kingdom'}	48
14	{'Basic' }	10	01-Aug-2022	26-Jun-2023	{'Australia' }	27
15	{'Standard'}	12	09-May-2023	28-Jun-2023	{'Germany' }	38
16	{'Premium' }	15	07-Apr-2022	27-Jun-2023	{'France' }	36
17	{'Basic' }	10	24-Jan-2022	25-Jun-2023	{'Brazil' }	30
18	{'Standard'}	12	18-Oct-2021	24-Jun-2023	{'Mexico' }	43
19	{'Premium' }	15	15-Feb-2023	23-Jun-2023	{'Spain' }	32
20	{'Basic' }	10	27-May-2023	22-Jun-2023	{'Italy' }	41
21	{'Premium' }	15	10-Jun-2023	22-Jun-2023	{'United States' }	26
22	{'Basic' }	10	22-Jul-2022	28-Jun-2023	{'Canada' }	34
23	{'Standard'}	12	05-Dec-2021	27-Jun-2023	{'United Kingdom'}	49
24	{'Standard'}	12	03-Apr-2022	26-Jun-2023	{'Australia' }	31
25	{'Basic' }	10	14-Mar-2023	28-Jun-2023	{'Germany' }	40
26	{'Premium' }	15	12-Jan-2022	27-Jun-2023	{'France' }	29
27	{'Basic' }	10	29-Aug-2022	25-Jun-2023	{'Brazil' }	47
28	{'Standard'}	12	27-Sep-2021	24-Jun-2023	{'Mexico' }	33
29	{'Premium' }	15	19-Dec-2022	23-Jun-2023	{'Spain' }	36
30	{'Basic' }	10	17-May-2023	22-Jun-2023	{'Italy' }	42
31	{'Premium' }	15	03-Feb-2023	22-Jun-2023	{'United States' }	28
32	{'Basic' }	10	07-Jul-2022	28-Jun-2023	{'Canada' }	37
33	{'Standard'}	12	21-Jan-2022	27-Jun-2023	{'United Kingdom'}	41
34	{'Standard'}	12	25-May-2022	26-Jun-2023	{'Australia' }	29
35	{'Basic' }	10	11-Apr-2023	28-Jun-2023	{'Germany' }	39
36	{'Premium' }	15	01-Mar-2022	27-Jun-2023	{'France' }	35
37	{'Basic' }	10	14-Sep-2022	25-Jun-2023	{'Brazil' }	45
38	{'Standard'}	12	05-Nov-2021	24-Jun-2023	{'Mexico' }	32

39	{'Premium' }	15	28-Dec-2022	23-Jun-2023	{'Spain' }	27
40	{'Basic' }	10	07-Mar-2023	22-Jun-2023	{'Italy' }	48
41	{'Premium' }	15	20-Jan-2023	22-Jun-2023	{'United States' }	31
42	{'Basic' }	10	15-Jun-2022	28-Jun-2023	{'Canada' }	40
43	{'Standard'}	12	07-Feb-2022	27-Jun-2023	{'United Kingdom'}	36
44	{'Standard'}	12	26-Apr-2022	26-Jun-2023	{'Australia' }	29
45	{'Basic' }	10	28-Jan-2023	28-Jun-2023	{'Germany' }	43
46	{'Premium' }	15	23-Feb-2022	27-Jun-2023	{'France' }	34
47	{'Basic' }	10	05-Oct-2022	25-Jun-2023	{'Brazil' }	39
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544	{'Premium' }	14	08-Aug-2022	28-Jun-2023	{'Spain' }	49
545	{'Basic' }	14	17-Aug-2022	27-Jun-2023	{'Italy' }	29
546	{'Premium' }	10	20-Aug-2022	26-Jun-2023	{'Spain' }	31
547	{'Basic' }	10	05-Sep-2022	27-Jun-2023	{'Spain' }	39
548	{'Standard'}	12	05-Sep-2022	27-Jun-2023	{'United States' }	51
549	{'Standard'}	10	05-Sep-2022	27-Jun-2023	{'Canada' }	38
550	{'Basic' }	11	06-Sep-2022	27-Jun-2023	{'United States' }	29

551	{'Premium' }	13	03-Sep-2022	28-Jun-2023	{'United States' }	41	-
552	{'Basic' }	13	29-Aug-2022	27-Jun-2023	{'Canada' }	48	-
553	{'Standard'}	14	27-Aug-2022	28-Jun-2023	{'United Kingdom'}	39	-
554	{'Premium' }	12	29-Aug-2022	29-Jun-2023	{'Australia' }	37	-
555	{'Basic' }	11	13-Sep-2022	28-Jun-2023	{'Germany' }	37	-
556	{'Premium' }	14	24-Sep-2022	27-Jun-2023	{'France' }	34	-
557	{'Basic' }	15	05-Oct-2022	29-Jun-2023	{'Brazil' }	37	-
558	{'Standard'}	14	18-Oct-2022	30-Jun-2023	{'Mexico' }	37	-
559	{'Standard'}	13	19-Oct-2022	28-Jun-2023	{'Spain' }	51	-
560	{'Basic' }	15	14-Oct-2022	29-Jun-2023	{'Italy' }	45	-
561	{'Premium' }	14	30-Sep-2022	28-Jun-2023	{'Spain' }	29	-
562	{'Basic' }	14	19-Sep-2022	30-Jun-2023	{'Spain' }	37	-
563	{'Standard'}	10	24-Sep-2022	29-Jun-2023	{'United States' }	34	-
564	{'Premium' }	14	28-Sep-2022	29-Jun-2023	{'Canada' }	35	-
565	{'Basic' }	12	29-Sep-2022	27-Jun-2023	{'United States' }	29	-
566	{'Premium' }	11	11-Oct-2022	01-Jul-2023	{'United States' }	45	-
567	{'Basic' }	14	08-Nov-2022	29-Jun-2023	{'Canada' }	36	-
568	{'Standard'}	11	16-Nov-2022	28-Jun-2023	{'United Kingdom'}	27	-
569	{'Standard'}	10	17-Nov-2022	26-Jun-2023	{'Australia' }	31	-
570	{'Basic' }	10	20-Nov-2022	30-Jun-2023	{'Germany' }	41	-
571	{'Premium' }	13	21-Nov-2022	29-Jun-2023	{'France' }	37	-
572	{'Basic' }	12	21-Nov-2022	30-Jun-2023	{'Brazil' }	49	-
573	{'Standard'}	12	18-Nov-2022	27-Jun-2023	{'Mexico' }	37	-
574	{'Premium' }	14	26-Oct-2022	29-Jun-2023	{'Spain' }	36	-
575	{'Basic' }	13	25-Oct-2022	28-Jun-2023	{'Italy' }	38	-
576	{'Premium' }	15	26-Oct-2022	30-Jun-2023	{'Spain' }	49	-
577	{'Basic' }	15	23-Oct-2022	26-Jun-2023	{'Spain' }	31	-
578	{'Standard'}	13	23-Oct-2022	28-Jun-2023	{'United States' }	29	-
579	{'Standard'}	12	16-Oct-2022	28-Jun-2023	{'Canada' }	35	-
580	{'Basic' }	14	09-Aug-2022	29-Jun-2023	{'United States' }	46	-
581	{'Premium' }	10	02-Aug-2022	29-Jun-2023	{'United States' }	29	-
582	{'Basic' }	12	16-Jul-2022	28-Jun-2023	{'Canada' }	43	-
583	{'Standard'}	15	17-Jul-2022	28-Jun-2023	{'United Kingdom'}	38	-
584	{'Premium' }	14	14-Jul-2022	28-Jun-2023	{'Australia' }	48	-
585	{'Basic' }	14	16-Jul-2022	29-Jun-2023	{'Germany' }	41	-
586	{'Premium' }	15	06-Aug-2022	29-Jun-2023	{'France' }	51	-
587	{'Basic' }	14	07-Aug-2022	28-Jun-2023	{'Brazil' }	39	-
588	{'Standard'}	11	07-Aug-2022	27-Jun-2023	{'Mexico' }	31	-
589	{'Standard'}	15	04-Aug-2022	29-Jun-2023	{'Spain' }	28	-
590	{'Basic' }	15	29-Jul-2022	29-Jun-2023	{'Italy' }	47	-
591	{'Premium' }	14	19-Jun-2022	28-Jun-2023	{'Spain' }	35	-
592	{'Basic' }	15	09-Jun-2022	29-Jun-2023	{'Spain' }	33	-
593	{'Standard'}	11	06-Jun-2022	29-Jun-2023	{'United States' }	41	-
594	{'Premium' }	12	06-Jun-2022	30-Jun-2023	{'Canada' }	38	-
595	{'Basic' }	10	11-Jun-2022	28-Jun-2023	{'United States' }	49	-
596	{'Basic' }	14	18-Jun-2022	28-Jun-2023	{'United States' }	29	-
597	{'Basic' }	13	27-Jun-2022	28-Jun-2023	{'Canada' }	50	-
598	{'Standard'}	12	05-Jul-2022	29-Jun-2023	{'United Kingdom'}	29	-
599	{'Premium' }	15	06-Jul-2022	27-Jun-2023	{'Australia' }	44	-
600	{'Basic' }	14	16-Jun-2022	29-Jun-2023	{'Germany' }	36	-
601	{'Basic' }	14	05-Jun-2022	30-Jun-2023	{'France' }	46	-
602	{'Premium' }	14	05-Jun-2022	29-Jun-2023	{'Brazil' }	30	-
603	{'Standard'}	15	06-Jun-2022	27-Jun-2023	{'Mexico' }	46	-
604	{'Standard'}	15	07-Jun-2022	28-Jun-2023	{'Spain' }	33	-
605	{'Basic' }	15	10-Jun-2022	29-Jun-2023	{'Italy' }	46	-
606	{'Premium' }	14	13-Jun-2022	29-Jun-2023	{'Spain' }	50	-
607	{'Standard'}	14	14-Jun-2022	27-Jun-2023	{'Spain' }	27	-
608	{'Basic' }	12	22-Jun-2022	28-Jun-2023	{'United States' }	48	-
609	{'Standard'}	14	03-Jul-2022	29-Jun-2023	{'Canada' }	50	-
610	{'Premium' }	13	05-Jul-2022	29-Jun-2023	{'United States' }	28	-
611	{'Basic' }	15	11-Jul-2022	28-Jun-2023	{'United States' }	29	-
612	{'Premium' }	11	17-Jul-2022	27-Jun-2023	{'Canada' }	36	-
613	{'Standard'}	12	27-Jul-2022	28-Jun-2023	{'United Kingdom'}	51	-
614	{'Basic' }	15	14-Aug-2022	28-Jun-2023	{'Australia' }	51	-

```
615        {'Standard'}        13        15-Aug-2022    27-Jun-2023    {'Germany'        }        43
616        {'Premium' }        14        02-Sep-2022    27-Jun-2023    {'France'         }        38
617        {'Basic'   }        11        05-Sep-2022    28-Jun-2023    {'Brazil'         }        45
618        {'Standard'}        10        06-Sep-2022    28-Jun-2023    {'Mexico'         }        28
619        {'Premium' }        11        06-Sep-2022    29-Jun-2023    {'Spain'          }        27
620        {'Basic'   }        11        05-Sep-2022    27-Jun-2023    {'Italy'          }        41
621        {'Premium' }        14        06-Sep-2022    29-Jun-2023    {'Spain'          }        49
622        {'Basic'   }        12        29-Aug-2022    28-Jun-2023    {'Spain'          }        35
623        {'Standard'}        13        30-Aug-2022    28-Jun-2023    {'United States' }        29
624        {'Standard'}        10        02-Sep-2022    30-Jun-2023    {'Canada'         }        42
625        {'Basic'   }        15        20-Sep-2022    28-Jun-2023    {'United States' }        33
626        {'Premium' }        10        23-Sep-2022    30-Jun-2023    {'United States' }        30
627        {'Basic'   }        11        29-Sep-2022    29-Jun-2023    {'Canada'         }        43
628        {'Standard'}        10        09-Oct-2022    01-Jul-2023    {'United Kingdom'}        42
629        {'Premium' }        11        12-Oct-2022    29-Jun-2023    {'Australia'      }        39
630        {'Basic'   }        15        06-Oct-2022    30-Jun-2023    {'Germany'        }        32
631        {'Premium' }        14        21-Sep-2022    28-Jun-2023    {'France'         }        31
```

```matlab
% Drop unnecessary columns (e.g., UserID, JoinDate, LastPaymentDate)
NetflixUserbase.UserID = [];
NetflixUserbase.JoinDate = [];
NetflixUserbase.LastPaymentDate = [];
NetflixUserbase.PlanDuration = [];

% Step 3: Prepare data for machine learning
% Convert categorical features to numeric
% Convert MonthlyRevenue and other relevant variables to categorical
NetflixUserbase.MonthlyRevenue = categorical(NetflixUserbase.MonthlyRevenue);
NetflixUserbase.SubscriptionType = categorical(NetflixUserbase.SubscriptionType);
NetflixUserbase.Country = categorical(NetflixUserbase.Country);
NetflixUserbase.Gender = categorical(NetflixUserbase.Gender);
NetflixUserbase.Device = categorical(NetflixUserbase.Device)
```

NetflixUserbase = 2500×8 table

...

	SubscriptionType	MonthlyRevenue	Country	Age	Gender	Device
1	Basic	10	United States	28	Male	Smartphone
2	Premium	15	Canada	35	Female	Tablet
3	Standard	12	United Kingdom	42	Male	Smart TV
4	Standard	12	Australia	51	Female	Laptop
5	Basic	10	Germany	33	Male	Smartphone
6	Premium	15	France	29	Female	Smart TV
7	Standard	12	Brazil	46	Male	Tablet
8	Basic	10	Mexico	39	Female	Laptop
9	Standard	12	Spain	37	Male	Smartphone
10	Premium	15	Italy	44	Female	Smart TV
11	Basic	10	United States	31	Female	Smartphone

	SubscriptionType	MonthlyRevenue	Country	Age	Gender	Device
12	Premium	15	Canada	45	Male	Tablet
13	Standard	12	United Kingdom	48	Female	Laptop
14	Basic	10	Australia	27	Male	Smartphone

:
:

```
% Define predictors and response
predictors = NetflixUserbase(:, {'MonthlyRevenue', 'SubscriptionType',
'ActivityDuration', 'Age'})  % Features for prediction
```

predictors = 2500×4 table

	MonthlyRevenue	SubscriptionType	ActivityDuration	Age
1	10	Basic	511	28
2	15	Premium	655	35
3	12	Standard	119	42
4	12	Standard	351	51
5	10	Basic	58	33
6	15	Premium	466	29
7	12	Standard	563	46
8	10	Basic	83	39
9	12	Standard	246	37
10	15	Premium	166	44
11	10	Basic	402	31
12	15	Premium	97	45
13	12	Standard	574	48
14	10	Basic	329	27

:
:

```
response = NetflixUserbase.Churn  % output
```

response = 2500×1 logical array
```
    0
    0
    1
    0
    1
    0
    0
    1
    0
    1
    :
    :
```

```
% Set the seed for reproducibility
rng(42); % Ensure reproducibility

% Train-test split (80% train, 20% test)
cv = cvpartition(size(NetflixUserbase, 1), 'HoldOut', 0.3);  % 20% for testing
trainData = NetflixUserbase(training(cv), :)
```

trainData = 1750×8 table

...

	SubscriptionType	MonthlyRevenue	Country	Age	Gender	Device
1	Standard	12	United Kingdom	42	Male	Smart TV
2	Standard	12	Australia	51	Female	Laptop
3	Basic	10	Germany	33	Male	Smartphone
4	Basic	10	Mexico	39	Female	Laptop
5	Standard	12	Spain	37	Male	Smartphone
6	Premium	15	Italy	44	Female	Smart TV
7	Basic	10	United States	31	Female	Smartphone
8	Premium	15	Canada	45	Male	Tablet
9	Basic	10	Australia	27	Male	Smartphone
10	Premium	15	France	36	Male	Tablet
11	Standard	12	Mexico	43	Male	Smartphone
12	Premium	15	Spain	32	Female	Smart TV
13	Basic	10	Italy	41	Male	Tablet
14	Premium	15	United States	26	Female	Laptop

:
:

```
testData = NetflixUserbase(test(cv), :)
```

testData = 750×8 table

...

	SubscriptionType	MonthlyRevenue	Country	Age	Gender	Device
1	Basic	10	United States	28	Male	Smartphone
2	Premium	15	Canada	35	Female	Tablet
3	Premium	15	France	29	Female	Smart TV
4	Standard	12	Brazil	46	Male	Tablet
5	Standard	12	United Kingdom	48	Female	Laptop
6	Standard	12	Germany	38	Female	Smart TV
7	Basic	10	Brazil	30	Female	Laptop
8	Standard	12	United Kingdom	49	Female	Smart TV

	SubscriptionType	MonthlyRevenue	Country	Age	Gender	Device
9	Standard	12	Australia	31	Male	Tablet
10	Basic	10	Germany	40	Female	Laptop
11	Basic	10	Brazil	47	Female	Smart TV
12	Standard	12	Mexico	33	Male	Tablet
13	Premium	15	France	35	Male	Tablet
14	Basic	10	Germany	43	Female	Laptop

:
:

```matlab
% Extract predictor values and response for training and testing
X_train = trainData(:, {'MonthlyRevenue', 'SubscriptionType', 'ActivityDuration',
'Age'});
y_train = trainData.Churn;

X_test = testData(:, {'MonthlyRevenue', 'SubscriptionType', 'ActivityDuration',
'Age'});
y_test = testData.Churn;
```

```matlab
% Identify numerical columns
numericalcols = {'Age', 'ActivityDuration'};

% Normalize numerical features in the training set
[X_train_num_norm, mu, sigma] = normalize(table2array(X_train(:, numericalcols)));

% Apply the same normalization to the testing set
X_test_num_norm = (table2array(X_test(:, numericalcols)) - mu) ./ sigma;

% Combine normalized numerical features with categorical features
X_train_combined = [array2table(X_train_num_norm, 'VariableNames', numericalcols),
...
                X_train(:, {'SubscriptionType', 'MonthlyRevenue'})]
```

X_train_combined = 1750×4 table

	Age	ActivityDuration	SubscriptionType	MonthlyRevenue
1	0.4350	-3.0007	Standard	12
2	1.6833	0.6993	Standard	12
3	-0.8134	-3.9735	Basic	10
4	0.0189	-3.5748	Basic	10
5	-0.2585	-0.9753	Standard	12
6	0.7124	-2.2511	Premium	15
7	-1.0908	1.5126	Basic	10
8	0.8511	-3.3515	Premium	15

	Age	ActivityDuration	SubscriptionType	MonthlyRevenue
9	-1.6456	0.3484	Basic	10
10	-0.3972	2.2143	Premium	15
11	0.5737	4.8936	Standard	12
12	-0.9521	-2.8572	Premium	15
13	0.2963	-4.4839	Basic	10
14	-1.7843	-4.7071	Premium	15

⋮

```
X_test_combined = [array2table(X_test_num_norm, 'VariableNames', numericalcols), ...
                    X_test(:, {'SubscriptionType', 'MonthlyRevenue'})]
```

X_test_combined = 750×4 table

	Age	ActivityDuration	SubscriptionType	MonthlyRevenue
1	-1.5069	3.2510	Basic	10
2	-0.5360	5.5475	Premium	15
3	-1.3682	2.5333	Premium	15
4	0.9898	4.0803	Standard	12
5	1.2672	4.2557	Standard	12
6	-0.1198	-4.1011	Standard	12
7	-1.2295	3.3467	Basic	10
8	1.4059	4.1760	Standard	12
9	-1.0908	2.2622	Standard	12
10	0.1576	-3.2080	Basic	10
11	1.1285	-0.1141	Basic	10
12	-0.8134	5.2285	Standard	12
13	-0.5360	2.8044	Premium	15
14	0.5737	-2.4903	Basic	10

⋮

```
% Train a random forest classifier
randomForestModel = fitcensemble(X_train_combined, y_train, ...
'Method', 'Bag', 'NumLearningCycles', 100);

% Display model details
disp(randomForestModel);
```

```
ClassificationBaggedEnsemble
        PredictorNames: {'Age'  'ActivityDuration'  'SubscriptionType'  'MonthlyRevenue'}
          ResponseName: 'Y'
 CategoricalPredictors: [3 4]
            ClassNames: [0 1]
        ScoreTransform: 'none'
       NumObservations: 1750
           NumTrained: 100
               Method: 'Bag'
         LearnerNames: {'Tree'}
   ReasonForTermination: 'Terminated normally after completing the requested number of training cycles.'
              FitInfo: []
    FitInfoDescription: 'None'
            FResample: 1
              Replace: 1
      UseObsForLearner: [1750×100 logical]


  Properties, Methods
```
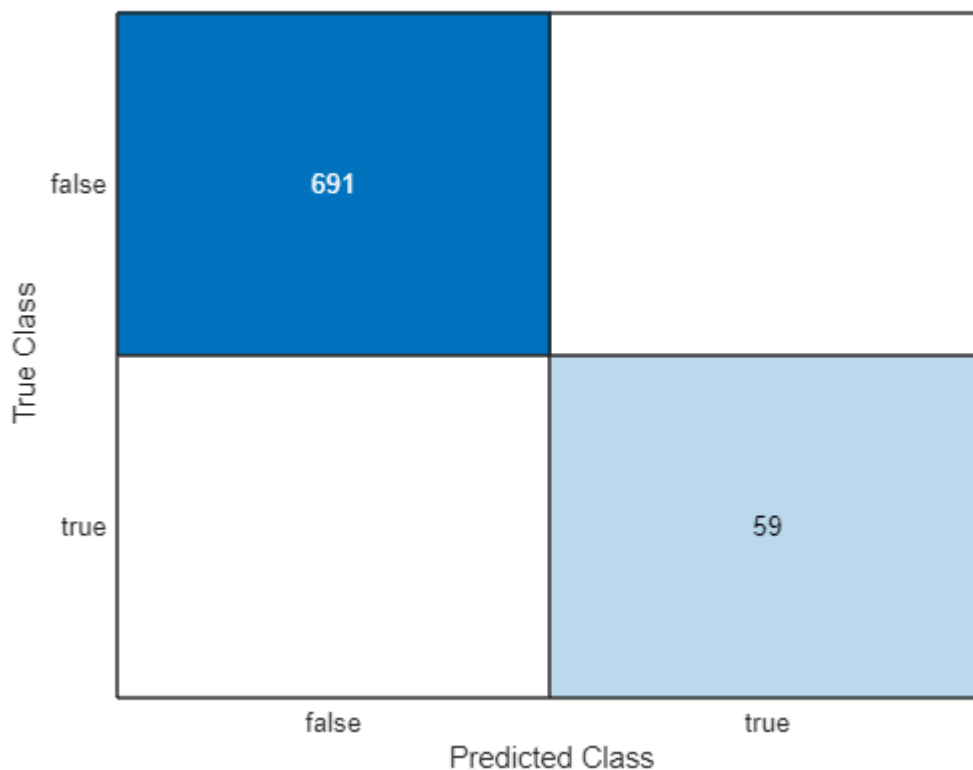
```matlab
% Predict on the test set
y_pred = predict(randomForestModel, X_test_combined);

% Plot the confusion matrix
confusionchart(y_test, y_pred);
```



```matlab
% Calculate evaluation metrics
accuracy = sum(y_pred == y_test) / numel(y_test);
fprintf('Accuracy: %.2f%%\n', accuracy * 100);
```

Accuracy: 100.00%

```matlab
% Compute precision, recall, and F1-score
confusion = confusionmat(y_test, y_pred);
precision = confusion(2,2) / sum(confusion(:,2));
recall = confusion(2,2) / sum(confusion(2,:));
f1_score = 2 * (precision * recall) / (precision + recall);

fprintf('Precision: %.2f\n', precision);
```

Precision: 1.00

```matlab
fprintf('Recall: %.2f\n', recall);
```

Recall: 1.00

```matlab
fprintf('F1-Score: %.2f\n', f1_score);
```

F1-Score: 1.00

```matlab
% Save the trained model for future use
save('trainedModel.mat', 'randomForestModel');
%load('trainedModel.mat');
```