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

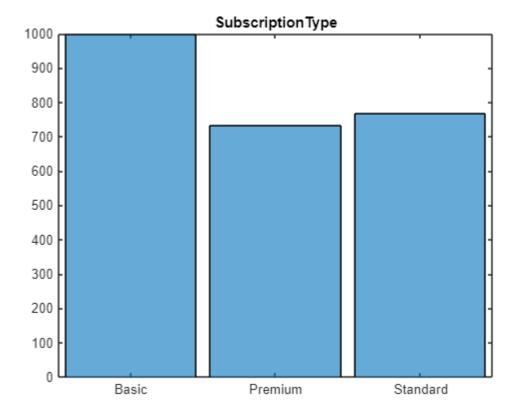
	UserID	SubscriptionType	MonthlyRevenue	JoinDate	LastPaymentDate
1	1	'Basic'	10	0015-01-22	0010-06-23
2	2	'Premium'	15	0005-09-21	0022-06-23
3	3	'Standard'	12	0028-02-23	0027-06-23
4	4	'Standard'	12	0010-07-22	0026-06-23
5	5	'Basic'	10	0001-05-23	0028-06-23
6	6	'Premium'	15	0018-03-22	0027-06-23
7	7	'Standard'	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

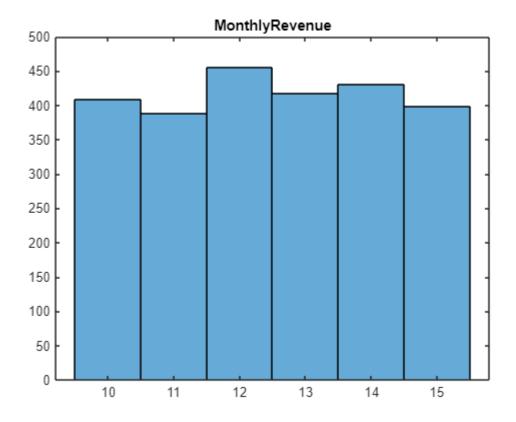
Data Distribution

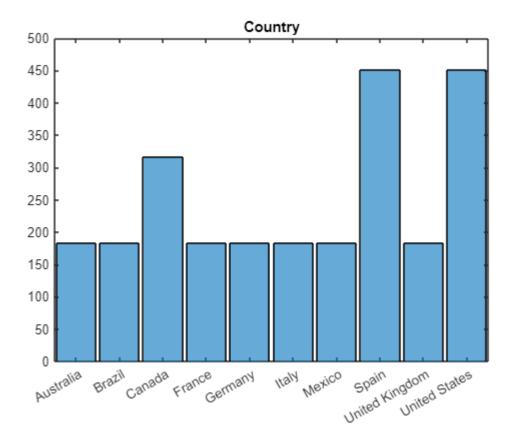
```
% Define variables to analyze
NumericVars = ["SubscriptionType", "MonthlyRevenue", "Country", "Age", "Device",
"Gender"];

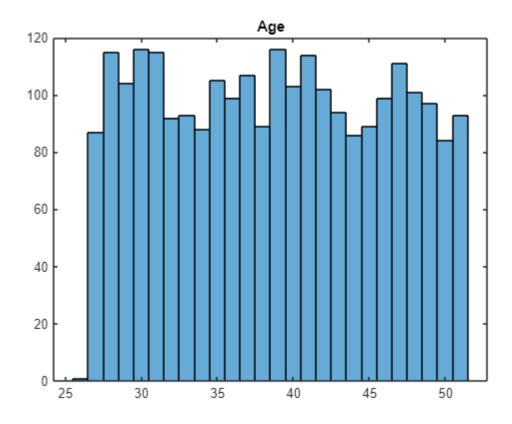
% Loop through the variables
for v = 1:numel(NumericVars)
    figure;
    varData = NetflixUserbase{:, NumericVars(v)};

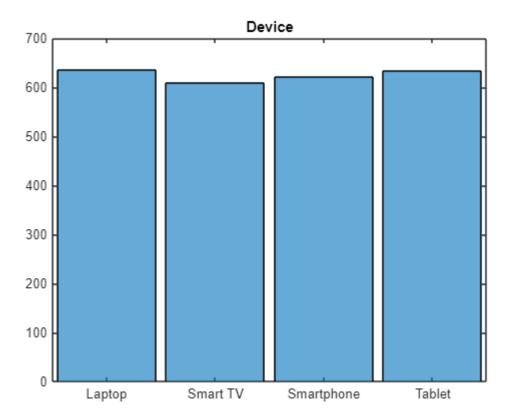
% Check if the data is numeric
    if isnumeric(varData)
        histogram(varData);
elseif iscategorical(varData) || isstring(varData) || iscellstr(varData)
        % Convert to categorical if not already
        categoricalData = categorical(varData);
```

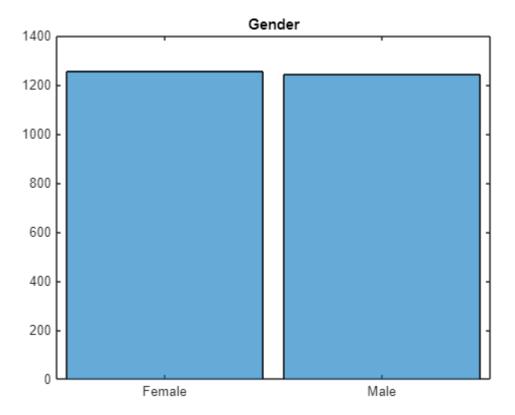












Data Cleaning

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	0023-06-23	{'Italy' }	42
31	{'Premium' }	15	0003-02-23	0022-06-23	{'United States' }	28
32	{'Basic' }	10	0003-02-23	0022-00-23	{'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		10	0011-04-23	0028-06-23	{'Germany' }	39
	•		0001-04-23	0028-06-23	{'France' }	35
36	{'Premium' }	15			,	
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	0025 00 23	{'Germany' }	28
76	{'Basic' }	13	0029-12-21	0026-06-23	{'France' }	51
77	{'Premium' }	15	0025-12-21	0023-06-23	{'Brazil' }	45
78	{'Standard'}	15	0018-11-22	0028-06-23	{'Mexico' }	49
78 79	{'Standard'}	15	0003-11-22	0025-06-23	{'Spain' }	43
80	{'Basic' }	12	0003-12-22	0023-00-23	{'Italy' }	43
30	(Dasic)	14	0000-11-77	0022-00-23	(1014	7.5

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
	{'Standard'}	12	0027-09-22	0028-06-23	{'Mexico' }	47
	{'Basic' }		0020-10-22	0026-06-23	{'Spain' }	39
	{'Standard'}		0003-02-23	0023-06-23	{'Italy' }	49
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	{'Basic' }	14	0005-01-22	0028-06-23	{'Canada' }	39
	{'Standard'}	12	0005-02-22	0026-06-23	{'United Kingdom'}	
	{'Premium' }		0019-03-22	0025-06-23	{'Australia' }	44
	{'Basic' }		0028-02-22	0025-06-23	{'Germany' }	34
	{'Premium' }		0026-07-22	0024-06-23	{'France' }	32
	{'Basic' }		0005-03-22	0024-06-23	{'Brazil' }	29
	{'Standard'}		0007-03-22	0028-06-23	{'Mexico' }	31
	{'Standard'}		0013-01-23	0024-06-23	{'Spain' }	29
	{'Basic' }		0022-01-23	0025-06-23	{'Italy' }	35
	{'Premium' }		0017-10-22	0024-06-23	{'United States' }	46
	{'Basic' }		0029-03-22	0024-06-23	{'Canada' }	31
	{'Standard'}		0004-04-22	0026-06-23	{'United Kingdom'}	36
	{'Premium' }		0004 04 22	0025-06-23	{'Australia' }	38
	{'Basic' }		0004-03-22	0023-00-23	{'Germany' }	46
	{'Premium' }		0018-03-22	0024-06-23	{'France' }	49
	{'Basic' }	14	0007-03-22	0024-06-23	{'Brazil' }	29
	{'Standard'}		0024-05-22	0024-00-23	{'Mexico' }	27
	{'Standard'}		0008-02-23	0025-06-23	{'Spain' }	35
	{'Basic' }		0026-01-23	0024-06-23	{'Italy' }	37
	{'Premium' }		0014-07-22	0024-06-23	{'United States' }	40
	{'Basic' }	10	0001-06-22	0028-06-23	{'Canada' }	33
	{'Standard'}		0001-06-22	0026-06-23	{'United Kingdom'}	
					{'Australia' }	48
	{'Premium' }		0018-11-22 0005-04-22	0025-06-23		48 50
	<pre>{'Basic' } {'Premium' }</pre>			0025-06-23	{'Germany' }	
			0019-05-22	0023-06-23 0023-06-23	{'France' }	45 40
	{'Basic' }		0030-10-21		{'Brazil' }	33
	{'Standard'}		0007-08-22 0020-09-22	0027-06-23	{'Mexico' }	33 44
	{'Standard'}			0025-06-23	{'Spain' }	
	{'Basic' } {'Premium' }		0018-10-22	0025-06-23	{'Italy' }	30 27
			0003-10-22	0024-06-23	{'United States' }	
	{'Basic' }		0003-05-22	0028-06-23	{'Canada' }	51
	{'Standard'}		0025-05-22	0026-06-23	{'United Kingdom'}	49
	{'Premium' }		0005-11-22	0025-06-23	{'Australia' }	43
	{'Basic' }		0021-08-22 0021-09-22	0024-06-23	{'Germany' }	42 45
	<pre>{'Premium' } {'Basic' }</pre>	13 10		0023-06-23	<pre>{'France' } {'Brazil' }</pre>	36
	•		0023-11-21	0023-06-23		
	<pre>{'Standard'} {'Standard'}</pre>		0006-10-22 0005-11-22	0027-06-23	{'Mexico' }	48
	-			0023-06-23	{'Spain' }	38
	{'Basic' }		0007-01-23	0023-06-23	{'Italy' }	43
	{'Premium' }		0006-10-22	0023-06-23	{'United States' }	47
	{'Basic' }	15	0024-06-22	0028-06-23	{'Canada' }	48
	{'Standard'}		0024-06-22	0026-06-23	{'United Kingdom'}	47
	{'Premium' }		0005-11-22	0025-06-23	{'Australia' }	32
	{'Basic' }		0018-07-22	0026-06-23	{'Germany' }	47 41
	{'Premium' }		0013-09-22	0026-06-23	{'France' }	41
	{'Basic' }	12	0010-08-22	0022-06-23	{'Brazil' }	49
	{'Standard'}		0021-09-22	0023-06-23	{'Mexico' }	28
	{'Standard'}		0024-03-23	0023-06-23	{'Spain' }	40
	{'Basic' }		0002-05-22	0023-06-23	{'Italy' }	43
	{'Premium' }		0011-05-22	0027-06-23	{'United States' }	42
	{'Basic' }		0010-06-22	0022-06-23	{'Canada' }	28
	{'Standard'}		0031-08-22	0024-06-23	{'United Kingdom'}	
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	-	} 38
147	•	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
	•	14			-	,
152	{'Premium'}		0023-11-22	0027-06-23	{'Canada'	} 33
153	{'Standard'}	11	0025-12-22	0024-06-23	{'United Kingdom'	
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
	•				{'Brazil'	} 30
157	{'Standard'}	14	0027-09-22	0024-06-23		,
158	{'Basic' }	13	0019-10-22	0028-06-23	{'Mexico'	} 47
159	{'Standard'}	10	0021-12-22	0026-06-23	{'Spain'	} 51
160	{'Premium' }	15	0027-10-22	0025-06-23	{'Italy'	} 39
161	{'Basic' }	10	0023-10-22	0024-06-23	{'United States'	} 45
	•				-	•
162	{'Premium' }	15	0019-04-22	0025-06-23	{'Canada'	} 31
163	{'Standard'}	11	0005-04-22	0026-06-23	{'United Kingdom'	} 29
164	{'Basic' }	11	0011-03-22	0026-06-23	{'Australia'	} 42
165	{'Standard'}	14	0025-05-22	0025-06-23	{'Germany'	} 49
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	•	11	0029-04-22	0024-06-23	•	} 35
	{'Premium' }				{'United States'	•
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				} 33
			0016-06-22	0027-06-23	{'United States'	•
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	,	} 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
	{'Premium' }	15	0015-11-22	0027-06-23	{'United States' }	40
	•					
	{'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
	{'Premium' }	14	0008-10-22	0024-06-23	{'France' }	51
	{'Basic' }	15	0013-11-22	0025-06-23	{'Brazil' }	44
	{'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
	{'Basic' }	12	0026-11-22	0025-06-23	{'United States' }	47
	•	10	0012-12-22		{'Canada' }	48
	{'Basic' }			0026-06-23	•	
	{'Standard'}	12	0008-01-23	0025-06-23	{'United Kingdom'}	34
224	{'Premium' }	15	0027-11-22	0029-06-23	{'Australia' }	40
225	{'Basic' }	14	0011-10-22	0027-06-23	{'Germany' }	48
	{'Basic' }	10	0027-09-22	0026-06-23	{'France' }	35
	{'Premium' }	12	0030-09-22	0024-06-23	{'Brazil' }	51
	-					
	{'Standard'}	10	0004-11-22	0027-06-23	{'Mexico' }	39
229	{'Standard'}	13	0004-11-22	0027-06-23	{'Spain' }	29
230	{'Basic' }	12	0030-10-22	0026-06-23	{'Italy' }	51
231	{'Premium'}	11	0029-10-22	0024-06-23	{'United States' }	43
	{'Standard'}	11	0030-08-22	0027-06-23	{'Canada' }	28
	•				•	
	{'Basic' }	15	0007-07-22	0026-06-23	{'United Kingdom'}	50
	{'Standard'}	14	0026-05-22	0027-06-23	{'Australia' }	44
235	{'Premium' }	11	0017-05-22	0025-06-23	{'Germany' }	50
236	{'Basic' }	11	0008-05-22	0026-06-23	{'France' }	39
	{'Premium' }	13	0007-07-22	0025-06-23	{'Brazil' }	46
	•	15	0017-07-22	0028-06-23	{'Mexico' }	48
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526	i	11	0004-06-22	0028-06-23	{'France'	} 44 } 49
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527	{'Standard'}	13	0010-07-22	0028-06-23	{'Mexico'	} 48 } 42
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619	<pre>{'Standard'} {'Premium' }</pre>	11	0006-09-22	0029-06-23	{'Mexico' } {'Spain' }	28 27
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630	{'Basic' }	15	0006-10-22	0030-06-23	{'Germany' }	32
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632	{'Basic' }	13	0023-09-22	0001-07-23	{'Brazil' }	39
633	{'Standard'}	12	0028-09-22	0029-06-23	{'Mexico' }	41
634	{'Standard'}	12	0029-09-22	0029-06-23	{'Spain' }	51
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669	{'Premium' }	13	0019-06-22	0028-06-23	{'Canada' }	. 27
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```

```
% 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

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

Summary of missing values in each column:

```
disp(missingSummary);
```

Detecting Outliers

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

```
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:

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

0 0 0

```
% 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:

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

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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
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37	{'Basic' }	10	0014-09-22	0025-06-23	{'Brazil'	} 45
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87	{'Premium'}		0028-12-21	0023-06-23	{'Brazil'	45
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94	{'Premium' }		0019-03-22	0025-06-23	{'Australia' }	44
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128	{'Standard'}		0006-10-22	0027-06-23	{'Mexico'	48
129	{'Standard'}		0005-11-22	0027 00 23	{'Spain'	38
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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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139	{'Standard'}	} 13	0024-03-23	0023-06-23	{'Spain' }	40
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142	{'Basic' }		0010-06-22	0022-06-23	{'Canada']	28
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166	{'Premium' }	13	0016-04-22	0025-06-23	{'France' }	42
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169	{'Standard'}	12	0020-01-23	0026-06-23		49
	{'Premium' }	14			{'Spain' }	
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184	{'Standard'}	13	0026-04-22	0025-06-23	{'Australia' }	28
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200	{'Basic' }	11	0013-10-22	0025-06-23	{'Italy' }	45
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202	{'Basic' }	12	0026-06-22	0027-06-23	{'Canada' }	31
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200	{'Basic' }	15	0016-09-22	0023-06-23	{'Brazil' }	46 45
					-	
208	{'Standard'}	15	0005-01-23	0023-06-23	{'Mexico' }	36 41
209	{'Premium' }	11	0010-12-22	0024-06-23	{'Spain' }	41
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	. ,		0030-10-22	0024-06-23	{'Italy' {'United States'	} 31
	,		0029-10-22	0027-06-23	{'Canada'	} 45 } 28
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	{'Standard'}		0017-07-22	0028-06-23	{'Mexico'	} 48
	{'Basic' }	15	0023-12-22	0026-06-23	{'Spain'	} 38
	{'Standard'}		0023 12 22	0026-06-23	{'Italy'	} 38
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	{'Standard'}		0025-05-22	0027-06-23	{'United Kingdom'	
	{'Premium' }		0026-04-22	0026-06-23	{'Australia'	} 28
	{'Basic' }		0020-04-22	0026-06-23	{'Germany'	} 47
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	{'Basic' }		0007-07-22	0027-06-23	{'Brazil'	} 27
	{'Standard'}		0015-09-22	0026-06-23	{'Mexico') } 34
	{'Standard'}		0016-09-22	0027-06-23	{'Spain'	} 42
250	{'Basic' }	14	0009-08-22	0026-06-23	{'Italy'	} 28
251	{'Premium' }	15	0025-06-22	0027-06-23	{'United States'	} 30
252	{'Basic' }	11	0030-05-22	0026-06-23	{'Canada'	} 38
253	{'Standard'}	15	0021-05-22	0025-06-23	{'United Kingdom'	} 45
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255	{'Basic' }	13	0020-05-22	0026-06-23	{'Germany'	} 46
256	{'Premium' }	12	0030-05-22	0026-06-23	{'France'	} 34
	{'Basic' }		0017-06-22	0025-06-23	{'Brazil'	} 46
	{'Standard'}		0016-07-22	0028-06-23	{'Mexico'	} 41
	{'Standard'}		0005-08-22	0026-06-23	{'Spain'	} 28
	{'Basic' }	10	0017-07-22	0026-06-23	{'Italy'	} 27
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	{'Basic' }		0013-07-22	0026-06-23	{'Canada'	} 28
	{'Standard'}		0025-07-22	0024-06-23	{'United Kingdom'	-
	{'Premium' }		0009-08-22	0027-06-23	{'Australia'	} 51
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	{'Standard'}		0016-10-22	0028-06-23	{'Mexico'	} 34
	{'Standard'} {'Basic'		0015-10-22	0025-06-23	{'Spain'	} 29 } 47
	{'Basic' } {'Premium' }	12 14	0004-09-22 0020-08-22	0025-06-23 0026-06-23	{'Italy' {'United States'	} 47 } 41
	{'Premium' } {'Basic' }		0010-08-22	0026-06-23	{'Canada'	} 41 } 36
	{ Basic } {'Standard'}		0002-08-22	0025-06-23	{'United Kingdom'	
	{ Standard } {'Premium' }		0002-08-22	0025-06-23	{'Australia'	} 28 } 27
	{'Basic' }		0001-08-22	0025-06-23	{'Germany'	} 27
	{ 'Premium' }		0000-08-22	0025-06-23	{'France'	} 34 } 34
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277	{'Basic' }	13	0012-09-22	0026-06-23	{'Brazil' }	37
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555	{'Basic' }	11	0013-09-22	0028-06-23	{'Germany' }	37
556	{'Premium' }	14	0024-09-22	0027-06-23	{'France' }	34
557	{'Basic' }	15	0005-10-22	0029-06-23	{'Brazil' }	37
558	{'Standard'}	14	0018-10-22	0030-06-23	{'Mexico' }	37
559	{'Standard'}	13	0019-10-22	0028-06-23	{'Spain' }	51
560	<pre>{'Basic' } {'Premium' }</pre>	15 14	0014-10-22 0030-09-22	0029-06-23 0028-06-23	{'Italy' }	45 29
561 562	<pre>{'Premium' } {'Basic' }</pre>	14	0019-09-22	0030-06-23	<pre>{'Spain' } {'Spain' }</pre>	37
563	{'Standard'}	10	0024-09-22	0029-06-23	{'United States' }	34
564	{'Premium' }	14	0028-09-22	0029-06-23	{'Canada' }	35
565	{'Basic' }	12	0029-09-22	0027-06-23	{'United States' }	29
566	{'Premium' }	11	0011-10-22	0001-07-23	{'United States' }	45
567	{'Basic' }	14	0008-11-22	0029-06-23	{'Canada' }	36
568	{'Standard'}	11	0016-11-22	0028-06-23	{'United Kingdom'}	27
569	{'Standard'}	10	0017-11-22	0026-06-23	{'Australia' }	31
570	{'Basic' }	10	0020-11-22	0030-06-23	{'Germany' }	41
571	{'Premium' }	13	0021-11-22	0029-06-23	{'France' }	37
572	{'Basic' }	12	0021-11-22	0030-06-23	{'Brazil' }	49
573	{'Standard'}	12	0018-11-22	0027-06-23	{'Mexico' }	37
574	{'Premium' }	14	0026-10-22	0029-06-23	{'Spain' }	36
575	{'Basic' }	13	0025-10-22	0028-06-23	{'Italy' }	38
576	{'Premium' }	15	0026-10-22	0030-06-23	{'Spain' }	49
577	{'Basic' }	15	0023-10-22	0026-06-23	{'Spain' }	31
578	{'Standard'}	13	0023-10-22	0028-06-23	{'United States' }	29
579	{'Standard'}	12	0016-10-22	0028-06-23	{'Canada' }	35
580	{'Basic' }	14	0009-08-22	0029-06-23	{'United States' }	46
581	{'Premium' }	10	0002-08-22	0029-06-23	{'United States' }	29
582	{'Basic' }	12	0016-07-22	0028-06-23	{'Canada' }	43
583	{'Standard'}	15	0017-07-22	0028-06-23	{'United Kingdom'}	38
584	{'Premium' }	14	0014-07-22	0028-06-23	{'Australia' }	48
585	{'Basic' }	14	0016-07-22	0029-06-23	{'Germany' }	41
586	{'Premium' }	15	0006-08-22	0029-06-23	{'France' }	51
587	{'Basic' }	14	0007-08-22	0028-06-23	{'Brazil' }	39
588	{'Standard'}	11	0007-08-22	0027-06-23	{'Mexico' }	31
589	{'Standard'}	15	0004-08-22	0029-06-23	{'Spain' }	28
590	{'Basic' }	15	0029-07-22	0029-06-23	{'Italy' }	47
591	{'Premium' }	14	0019-06-22	0028-06-23	{'Spain' }	35
592	{'Basic' }	15	0009-06-22	0029-06-23	{'Spain' }	33
593	{'Standard'}	11	0006-06-22	0029-06-23	{'United States' }	41
594	{'Premium' }	12	0006-06-22	0030-06-23	{'Canada' }	38
595 596	{'Basic' }	10	0011-06-22	0028-06-23	{'United States' }	49 20
596	{'Basic' }	14	0018-06-22	0028-06-23	{'United States' }	29

597	{'Basic' }	13	0027-06-22	0028-06-23	{'Canada' }	50
598	{'Standard'}	12	0005-07-22	0029-06-23	{'United Kingdom'}	29
599	{'Premium' }	15	0006-07-22	0027-06-23	{'Australia' }	44
600	{'Basic' }	14	0016-06-22	0029-06-23	{'Germany' }	36
601	{'Basic' }	14	0005-06-22	0030-06-23	{'France' }	46
602	{'Premium' }	14	0005-06-22	0029-06-23	{'Brazil' }	30
603	{'Standard'}	15	0006-06-22	0027-06-23	{'Mexico' }	46
604	{'Standard'}	15	0007-06-22	0028-06-23	{'Spain' }	33
605	{'Basic' }	15	0010-06-22	0029-06-23	{'Italy' }	46
606	{'Premium' }	14	0013-06-22	0029-06-23	{'Spain' }	50
607	{'Standard'}	14	0014-06-22	0027-06-23	{'Spain' }	27
608	{'Basic' }	12	0022-06-22	0028-06-23	{'United States' }	48
609	{'Standard'}	14	0003-07-22	0029-06-23	{'Canada' }	50
610	{'Premium' }	13	0005-07-22	0029-06-23	<pre>{'United States' } {'United States' }</pre>	28
611 612	{'Basic' }	15 11	0011-07-22 0017-07-22	0028-06-23 0027-06-23		29 36
613	<pre>{'Premium' } {'Standard'}</pre>	12	0017-07-22	0027-06-23	<pre>{'Canada' } {'United Kingdom'}</pre>	50 51
614	{'Basic' }	15	0014-08-22	0028-06-23	{'Australia' }	51
615	{'Standard'}	13	0014-08-22	0027-06-23	{'Germany' }	43
616	{'Premium' }	14	0002-09-22	0027-06-23	{'France' }	38
617	{'Basic' }	11	0002-09-22	0027-00-23	{'Brazil' }	45
618	{'Standard'}	10	0005-05-22	0028-06-23	{'Mexico' }	28
619	{'Premium' }	11	0006-09-22	0029-06-23	{'Spain' }	27
620	{'Basic' }	11	0005-09-22	0027-06-23	{'Italy' }	41
621	{'Premium' }	14	0005-09-22	0027-06-23	{'Spain' }	49
622	{'Basic' }	12	0029-08-22	0028-06-23	{'Spain' }	35
623	{'Standard'}	13	0030-08-22	0028-06-23	{'United States' }	29
624	{'Standard'}	10	0002-09-22	0030-06-23	{'Canada' }	42
625	{'Basic' }	15	0020-09-22	0028-06-23	{'United States' }	33
626	{'Premium' }	10	0023-09-22	0030-06-23	{'United States' }	30
627	{'Basic' }	11	0029-09-22	0029-06-23	{'Canada' }	43
628	{'Standard'}	10	0009-10-22	0001-07-23	{'United Kingdom'}	42
629	{'Premium' }	11	0012-10-22	0029-06-23	{'Australia' }	39
630	{'Basic' }	15	0006-10-22	0030-06-23	{'Germany' }	32
631	{'Premium'}	14	0021-09-22	0028-06-23	{'France' }	31
632	{'Basic' }	13	0023-09-22	0001-07-23	{'Brazil' }	39
633	{'Standard'}	12	0028-09-22	0029-06-23	{'Mexico' }	41
634	{'Standard'}	12	0029-09-22	0029-06-23	{'Spain' }	51
635	{'Basic' }	13	0003-10-22	0027-06-23	{'Italy' }	29
636	{'Premium' }	10	0028-10-22	0001-07-23	{'Spain' }	33
637	{'Basic' }	12	0014-11-22	0029-06-23	{'Spain' }	51
638	{'Standard'}	11	0016-11-22	0001-07-23	{'United States' }	38
639	{'Premium' }	10	0017-11-22	0028-06-23	{'Canada' }	37
640	{'Basic' }	13	0020-11-22	0030-06-23	{'United States' }	50
641	{'Premium' }	12	0021-11-22	0029-06-23	{'United States' }	33
642	{'Basic' }	11	0019-11-22	0001-07-23	{'Canada' }	27
643	{'Standard'}	11	0028-10-22	0027-06-23	{'United Kingdom'}	50
644	{'Standard'}	15	0027-10-22	0029-06-23	{'Australia' }	47
645	{'Basic' }	13	0027-10-22	0029-06-23	{'Germany' }	41
646	{'Premium' }	10	0027-10-22	0030-06-23	{'France' }	49
647	<pre>{'Basic' } {'Standard'}</pre>	15	0025-10-22	0028-06-23	{'Brazil' }	32
648 649	{ 'Premium' }	10 14	0017-10-22 0020-08-22	0028-06-23 0029-06-23	{'Mexico' } {'Spain' }	38 38
650	{'Basic' }	15	0016-08-22	0029-06-23	{'Italy' }	28
651	{'Premium' }	13	0015-08-22	0029-06-23	{'Spain' }	31
652	{'Basic' }	14	0015-08-22	0029-06-23	{'Spain' }	39
653	{'Standard'}	11	0029-07-22	0029-06-23	{'United States' }	28
654	{'Standard'}	12	0017-07-22	0028-06-23	{'Canada' }	30
655	{'Basic' }	11	0026-07-22	0029-06-23	{'United States' }	42
656	{'Premium' }	14	0031-07-22	0029-06-23	{'United States' }	33
657	{'Basic' }	14	0003-08-22	0029-06-23	{'Canada' }	34
658	{'Standard'}	13	0003 08 22	0029-06-23	{'United Kingdom'}	49
659	{'Premium' }	13	0003-08-22	0029-06-23	{'Australia' }	41
660	{'Basic' }	12	0003 00 22	0029-06-23	{'Germany' }	28
	()					

661	{'Premium'}	14	0027-06-22	0028-06-23	{'France'	} 49
662	{'Basic' }	15	0015-06-22	0029-06-23	{'Brazil'	} 49
663	{'Standard'}	11	0013-06-22	0029-06-23	{'Mexico'	} 36
664	{'Standard'}		0012-06-22	0030-06-23	{'Spain'	} 31
	{'Basic' }		0018-06-22	0028-06-23	{'Italy'	} 38
	{'Premium' }		0026-06-22	0029-06-23	{'Spain'	} 34
	{'Basic' }		0030-06-22	0030-06-23	{'Spain'	} 51
	{'Standard'}		0003-07-22	0030-06-23	{'United States'	} 49
	{'Premium' }		0019-06-22	0028-06-23	{'Canada'	} 27
	{'Basic' }		0008-06-22	0029-06-23		} 38
	{'Basic' }		0008-06-22	0030-06-23		} 51
	{'Basic' }		0009-06-22	0030-06-23	{'Canada'	} 47
	{'Standard'}		0009-06-22	0027-06-23	{'United Kingdom'	
	{'Premium' }		0010-06-22	0028-06-23	{'Australia'	} 37
	{'Basic' }		0011-06-22	0029-06-23	{'Germany'	} 39
	{'Basic' }		0013-06-22	0029-06-23	{'France'	31
	{'Premium' } {'Standard'}		0017-06-22 0027-06-22	0028-06-23 0028-06-23	{'Brazil' {'Mexico'	} 36 } 42
			0005-07-22	0028-06-23	{'Spain'	} 42 } 49
	{'Standard'} {'Basic' }		0003-07-22	0029-06-23	{'Italy'	} 49 } 44
	{ basic } {'Premium' }		0007-07-22	0029-06-23	{'Spain'	} 44 }
	{'Standard'}		0023-07-22	0027-06-23	{'Spain'	} 42
	{'Basic' }	13	0003-07-22	0029-06-23	{'United States'	} 42
	{'Standard'}		0003-08-22	0029-06-23	{'Canada'	} 49
	{'Premium' }		0011-08-22	0030-06-23	•	} 31
	{'Basic' }		0013-08-22	0028-06-23	1	} 31
	{'Premium' }		0026-08-22	0029-06-23	{'Canada'	} 30
	{'Standard'}		0003-09-22	0028-06-23	{'United Kingdom'	,
	{'Basic' }		0003-03-22	0029-06-23	{'Australia'	} 37
	{'Standard'}		0005-09-22	0030-06-23	{'Germany'	} 36
	{'Premium' }		0001-09-22	0029-06-23	{'France'	} 28
	{'Basic' }		0031-08-22	0030-06-23	{'Brazil'	} 36
	{'Standard'}		0001-09-22	0029-06-23	{'Mexico'	} 31
	{'Premium' }		0017-09-22	0001-07-23	{'Spain') } 46
	{'Basic' }		0021-09-22	0028-06-23	{'Italy'	} 28
	('Premium')	15	0029-09-22	0001-07-23	{'Spain') 31
697	{'Basic' }	12	0006-10-22	0029-06-23	{'Spain'	} 43
698	{'Standard'}	10	0012-10-22	0002-07-23	{'United States'	} 28
699	{'Standard'}	13	0007-10-22	0030-06-23	{'Canada'	} 32
	{'Basic' }		0004-10-22	0030-06-23	{'United States'	} 31
	{'Premium'}	11	0024-09-22	0028-06-23	(} 45
	{'Basic' }		0025-09-22	0001-07-23	{'Canada'	} 36
	{'Standard'}		0027-09-22	0030-06-23	{'United Kingdom'	
	{'Premium' }		0030-09-22	0001-07-23	{'Australia'	} 27
	{'Basic' }		0004-10-22	0028-06-23	{'Germany'	} 32
	{'Premium' }		0024-10-22	0001-07-23	{'France'	} 46
	{'Basic' }	12	0028-10-22	0030-06-23	{'Brazil'	} 36
	{'Standard'}		0002-11-22	0001-07-23	{'Mexico'	} 39
	{'Standard'}		0007-11-22	0028-06-23	{'Spain'	} 48
	{'Basic' }		0010-11-22	0030-06-23	{'Italy'	} 48
	{'Premium' } {'Basic' }		0015-11-22	0029-06-23	{'Spain'	} 27
	{ basic } {'Standard'}	13 10	0008-11-22 0001-11-22	0001-07-23 0027-06-23	<pre>{'Spain' {'United States'</pre>	} 45 } 30
	{ 'Premium' }		0030-10-22	0029-06-23	{'Canada'	} 30
	{'Basic' }		0038-10-22	0029-06-23	{'United States'	} 43
	{ 'Premium' }		0026-10-22	0030-06-23	1	} 43
	{'Basic' }	15	0018-10-22	0029-06-23	{'Canada'	} 39
	{'Standard'}		0030-09-22	0030-06-23	{'United Kingdom'	,
	{'Standard'}		0003-09-22	0029-06-23	{'Australia'	} 33
	{'Basic' }		0023-08-22	0029-06-23	{'Germany'	} 32
	{'Premium' }		0016-08-22	0029-06-23	{'France'	} 37
	{'Basic' }		0011-08-22	0030-06-23	{'Brazil'	} 45
	{'Standard'}		0001-08-22	0030-06-23	{'Mexico'	} 40
	('Premium')		0001-08-22	0029-06-23	('Spain'	} 44

725	{'Basic' }	12	0001-08-22	0029-06-23	{'Italy' }	29
726	{'Premium'}	14	0002-08-22	0030-06-23	{'Spain' }	50
727	{'Basic' }	11	0004-08-22	0029-06-23	{'Spain' }	32
728	{'Standard'}	14	0004-08-22	0029-06-23	{'United States' }	39
729	{'Standard'}	15	0007-07-22	0030-06-23	{'Canada'}	43
730	{'Basic' }	12	0027-06-22	0030-06-23	{'United States' }	49
731	{'Premium'}	13	0019-06-22	0029-06-23	{'United States' }	30
732	{'Basic' }	12	0019-06-22	0029-06-23	{'Canada' }	47
733	{'Standard'}	10	0018-06-22	0029-06-23	{'United Kingdom'}	51
734	{'Premium'}	14	0019-06-22	0030-06-23	{'Australia' }	40
735	{'Basic' }	14	0024-06-22	0028-06-23	{'Germany' }	40
736	{'Premium'}	11	0030-06-22	0030-06-23	{'France' }	49
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	

GEOGRAPHICAL ANALYSIS

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

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

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

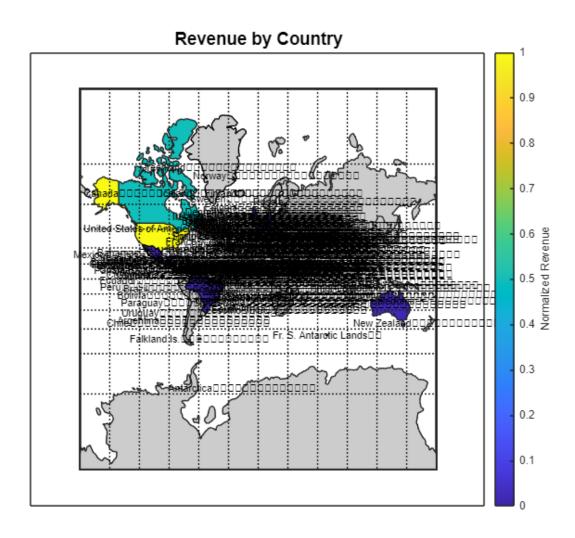
.zip files is downloaded from Natural Earth > Cultural Vector 1.110m > Admin 0 – Countries. Make sure the folder is unzip and the folder is open when running the code.

```
% 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
```

```
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;
```

```
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 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.

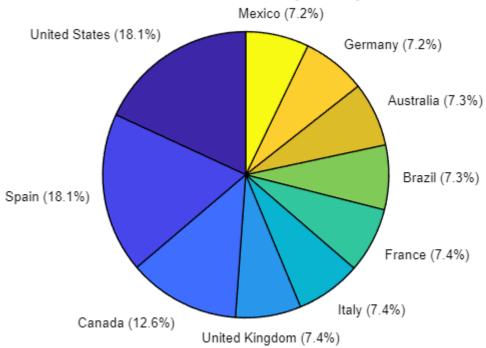
```
countryRevenue.Properties.VariableNames{'sum_MonthlyRevenue'} = 'TotalRevenue';
countryRevenue.Properties.VariableNames{'GroupCount'} = 'TotalUsers';
```

```
% 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

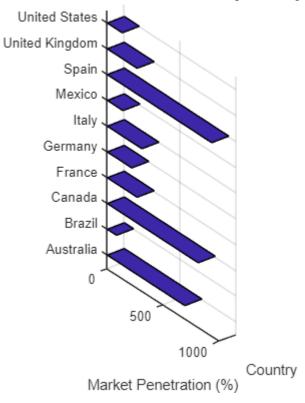
Country	Population (Thousands)
{'United States' }	334.9
{'Spain' }	48.3
{'Canada' }	39
{'United Kingdom'}	68.4
{'Italy' }	59
{'France' }	68.3
{'Brazil' }	220.1
{'Australia' }	26.4
{'Germany' }	83.3
{'Mexico' }	129.7

```
% 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	s 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	

```
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

	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

'Tablet'

	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'
```

```
% 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
dataMatrix = 3 \times 4
  259 238 0 0
         0
0
  0
      0
  0
      0
dataMatrix = 3×4
  259 238 251 0
              0
   0
     0 0
      0 0
  0
dataMatrix = 3×4
  259 238 251 251
   0 0 0 0
   0 0 0
dataMatrix = 3×4
  259 238 251 251
  0 0 0 0
  192 0 0
dataMatrix = 3×4
  259 238 251 251
  0 0 0 0
  192 188 0
dataMatrix = 3×4
  259 238 251 251
  0
      0
         0
  192 188 171
dataMatrix = 3 \times 4
  259 238 251 251
  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
  192 188 171 182
dataMatrix = 3 \times 4
  259 238 251 251
      184 199
  185
              200
     188 171
  192
              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');
```

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

Time Series Analysis

Data Cleaning

```
% 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
	{'Premium' }	15	07-Apr-2022	27-Jun-2023	{'France' }	36
	{'Basic' }	10	24-Jan-2022	25-Jun-2023	{'Brazil' }	30
	{'Standard'}	12	18-Oct-2021	24-Jun-2023	{'Mexico' }	43
	{'Premium' }	15	15-Feb-2023	23-Jun-2023	{'Spain' }	32
	{'Basic' }	10	27-May-2023	22-Jun-2023	{'Italy' }	41
	{'Premium' }	15	10-Jun-2023	22-Jun-2023	{'United States' }	26
	{'Basic' }	10	22-Jul-2022	28-Jun-2023	{'Canada' }	34
	{'Standard'}	12	05-Dec-2021	27-Jun-2023	{'United Kingdom'}	49
	,					31
	{'Standard'}	12	03-Apr-2022	26-Jun-2023	{'Australia' }	
	{'Basic' }	10	14-Mar-2023	28-Jun-2023	{'Germany' }	40
	{'Premium' }	15	12-Jan-2022	27-Jun-2023	{'France' }	29
	{'Basic' }	10	29-Aug-2022	25-Jun-2023	{'Brazil' }	47
	{'Standard'}	12	27-Sep-2021	24-Jun-2023	{'Mexico' }	33
	{'Premium' }	15	19-Dec-2022	23-Jun-2023	{'Spain' }	36
	{'Basic' }	10	17-May-2023	22-Jun-2023	{'Italy' }	42
	{'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
	{'Standard'}	12	05-Nov-2021	24-Jun-2023	{'Mexico' }	32
	{'Premium'}	15	28-Dec-2022	23-Jun-2023	{'Spain' }	27
	{'Basic' }	10	07-Mar-2023	22-Jun-2023	{'Italy' }	48
	{'Premium' }	15	20-Jan-2023	22-Jun-2023	{'United States' }	31
	{'Basic' }	10	15-Jun-2022	28-Jun-2023	{'Canada' }	40
	{'Standard'}	12	07-Feb-2022	27-Jun-2023	{'United Kingdom'}	36
	{'Standard'}	12	26-Apr-2022	26-Jun-2023	{'Australia' }	29
	{'Basic' }	10	28-Jan-2023	28-Jun-2023	{'Germany' }	43
	{'Premium' }	15	23-Feb-2022	27-Jun-2023	{'France' }	34
	-	10	05-0ct-2022	25-Jun-2023	{'Brazil' }	39
	{'Basic' }				,	32
	{'Standard'}	12	15-Sep-2021	24-Jun-2023	{'Mexico' }	
	{'Premium' }	15	10-Nov-2022	23-Jun-2023	{'Spain' }	28
	{'Basic' }	10	02-Jun-2023	22-Jun-2023	{'Italy' }	45
	{'Premium' }	15	27-Feb-2023	22-Jun-2023	{'United States' }	30
	{'Basic' }	10	29-Aug-2022	28-Jun-2023	{'Canada' }	37
	{'Standard'}	12	13-Jan-2022	27-Jun-2023	{'United Kingdom'}	41
	{'Standard'}	12	30-Jun-2022	26-Jun-2023	{'Australia' }	29
	{'Basic' }	10	20-Apr-2023	28-Jun-2023	{'Germany' }	39
	{'Premium' }	15	15-Mar-2022	27-Jun-2023	{'France' }	36
	{'Basic' }	10	01-Oct-2022	25-Jun-2023	{'Brazil' }	46
	{'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
	{'Standard'}	12	20-Jun-2022	26-Jun-2023	{'Australia' }	29
	{'Basic' }	10	29-Mar-2023	28-Jun-2023	{'Germany' }	40
	{'Premium' }	15	30-Jan-2022	27-Jun-2023	{'France' }	29
	{'Basic' }	10	18-Sep-2022	25-Jun-2023	{'Brazil' }	47
	{'Standard'}	12	09-Nov-2021	24-Jun-2023	{'Mexico' }	33
	{'Premium' }	15	23-Dec-2022	23-Jun-2023	{'Spain' }	36
	-	10				41
	{'Basic' }		08-May-2023	22-Jun-2023	{'Italy' }	27
	{'Basic' }	10 10	26-Jan-2022	20-Jun-2023	{'United States' }	
	{'Basic' }	10	11-0ct-2022	22-Jun-2023	{'Canada' }	31
	{'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
	{'Premium' }	10	11-Jan-2023	24-Jun-2023	{'United States'	}	37
	{'Standard'}	12	07-Dec-2022	28-Jun-2023	('Canada'	}	35
	{'Basic' }	10	20-Oct-2022	26-Jun-2023	{'United Kingdom'	' }	46
	{'Standard'}	12	13-Apr-2023	25-Jun-2023	{'Australia'	}	32
	{'Premium' }	10	06-Apr-2023	27-Jun-2023	{'Germany'	}	37
	{'Basic' }	11	04-Mar-2022	25-Jun-2023	{'France'	}	29
	{'Premium' }	15	28-Dec-2021	23-Jun-2023	{'Brazil'	}	45
	{'Standard'}	12	27-Sep-2022	28-Jun-2023	{'Mexico'	}	47
	{'Basic' }	15	20-Oct-2022	26-Jun-2023	{'Spain'	J.	39
	{'Standard'}	13	03-Feb-2023	23-Jun-2023	{'Italy'	Ĵ.	49
	{'Premium' }	11	03-0ct-2022	23-Jun-2023	{'United States'	J	39
	{'Basic' }	14	05-000-2022 05-Jan-2022	28-Jun-2023	{'Canada'	J	39
	{'Standard'}	12	05-Feb-2022	26-Jun-2023	{'United Kingdom') ا	35
	•	12	19-Mar-2022	25-Jun-2023	-	ì	44
	{'Premium' } {'Basic' }	11	28-Feb-2022	25-Jun-2023	{'Australia'))	34
	,	14			{'Germany'	ì	32
	{'Premium' }		26-Jul-2022	24-Jun-2023	{'France'	}	
	{'Basic' }	10	05-Mar-2022	24-Jun-2023	{'Brazil'	}	29
	{'Standard'}	13	07-Mar-2022	28-Jun-2023	{'Mexico'	}	31
	{'Standard'}	12	13-Jan-2023	24-Jun-2023	{'Spain'	}	29
	{'Basic' }	12	22-Jan-2023	25-Jun-2023	{'Italy'	}	35
	{'Premium' }	11	17-0ct-2022	24-Jun-2023	{'United States'	}	46
	{'Basic' }	12	29-Mar-2022	28-Jun-2023	{'Canada'	}	31
	{'Standard'}	13	04-Apr-2022	26-Jun-2023	{'United Kingdom'	'}	36
	{'Premium' }	10	08-Jun-2022	25-Jun-2023	{'Australia'	}	38
	{'Basic' }	11	04-Mar-2022	27-Jun-2023	{'Germany'	}	46
	{'Premium' }	10	18-Mar-2022	24-Jun-2023	{'France'	}	49
	{'Basic' }	14	07-Mar-2022	24-Jun-2023	{'Brazil'	}	29
	{'Standard'}	12	24-May-2022	25-Jun-2023	{'Mexico'	}	27
	{'Standard'}	13	08-Feb-2023	25-Jun-2023	{'Spain'	}	35
	{'Basic' }	13	26-Jan-2023	24-Jun-2023	{'Italy'	}	37
	{'Premium' }	14	14-Jul-2022	27-Jun-2023	{'United States'	}	40
	{'Basic' }	10	01-Jun-2022	28-Jun-2023	{'Canada'	}	33
113	{'Standard'}	15	07-May-2022	26-Jun-2023	{'United Kingdom'	'}	37
	{'Premium' }	10	18-Nov-2022	25-Jun-2023	{'Australia'	}	48
115	{'Basic' }	11	05-Apr-2022	25-Jun-2023	{'Germany'	}	50
	{'Premium' }	14	19-May-2022	23-Jun-2023	{'France'	}	45
117	{'Basic' }	15	30-Oct-2021	23-Jun-2023	{'Brazil'	}	40
118	{'Standard'}	12	07-Aug-2022	27-Jun-2023	{'Mexico'	}	33
119	{'Standard'}	11	20-Sep-2022	25-Jun-2023	{'Spain'	}	44
120	{'Basic' }	10	18-Oct-2022	25-Jun-2023	{'Italy'	}	30
121 -	{'Premium' }	15	03-Oct-2022	24-Jun-2023	{'United States'	}	27
122	{'Basic' }	11	03-May-2022	28-Jun-2023	{'Canada'	}	51
123	{'Standard'}	13	25-May-2022	26-Jun-2023	{'United Kingdom'	'}	49
124	{'Premium' }	15	05-Nov-2022	25-Jun-2023	{'Australia'	}	43
125	{'Basic' }	12	21-Aug-2022	24-Jun-2023	('Germany'	}	42
	{'Premium' }	13	21-Sep-2022	23-Jun-2023	{'France'	}	45
	{'Basic' }	10	23-Nov-2021	23-Jun-2023	(Brazil'	}	36
	{'Standard'}	12	06-0ct-2022	27-Jun-2023	('Mexico'	}	48
	{'Standard'}	13	05-Nov-2022	23-Jun-2023	('Spain'	}	38
	{'Basic' }	14	07-Jan-2023	23-Jun-2023	{'Italy'	}	43
	{'Premium' }	15	06-0ct-2022	23-Jun-2023	{'United States'	}	47
	{'Basic' }	15	24-Jun-2022	28-Jun-2023	{'Canada'	}	48
	{'Standard'}	13	24-Jun-2022	26-Jun-2023	{'United Kingdom'	'}	47
	{'Premium' }	15	05-Nov-2022	25-Jun-2023	{'Australia'	}	32
	{'Basic' }	13	18-Jul-2022	26-Jun-2023	{'Germany'	}	47
	{'Premium' }	12	13-Sep-2022	26-Jun-2023	{'France'	}	41
	{'Basic' }	12	10-Aug-2022	22-Jun-2023	{'Brazil'	}	49
	{'Standard'}	15	21-Sep-2022	23-Jun-2023	{'Mexico'	}	28
-50	(-1 JCP 2022		(LICKICO	J	

139	{'Standard'}	13	24-Mar-2023	23-Jun-2023	{'Spain' }	40
140	{'Basic' }	12	02-May-2022	23-Jun-2023	{'Italy' }	43
141	{'Premium' }	12	11-May-2022	27-Jun-2023	{'United States' }	42
142	{'Basic' }	14	10-Jun-2022	22-Jun-2023	{'Canada' }	28
143	{'Standard'}	14	31-Aug-2022	24-Jun-2023	{'United Kingdom'}	30
144	{'Premium' }	10	17-Aug-2022	26-Jun-2023	{'Australia' }	33
145	{'Basic' }	11	05-May-2022	26-Jun-2023	{'Germany' }	35
	{'Basic' }	10	06-0ct-2022	25-Jun-2023	{'France' }	38
	{'Basic' }	12	08-Nov-2022	24-Jun-2023	{'Brazil' }	49
	{'Standard'}	15	27-Nov-2022	28-Jun-2023	{'Mexico' }	39
	{'Premium' }	13	17-Nov-2022	27-Jun-2023	{'Spain' }	46
	{'Basic' }	10	15-Dec-2022	23-Jun-2023	{'Italy' }	47
	{'Basic' }	15	12-Dec-2022	25-Jun-2023	{'United States' }	30
	{'Premium' }	14	23-Nov-2022	27-Jun-2023	{'Canada' }	33
	{'Standard'}	11	25-Dec-2022	24-Jun-2023	{'United Kingdom'}	47
	{'Standard'}	11	11-Mar-2023	27-Jun-2023	{'Australia' }	27
	{'Basic' }	14	18-Nov-2022	27-Jun-2023	{'Germany' }	28
	{'Premium' }	15	19-Aug-2022	25-Jun-2023	{'France' }	47
		14				30
	{'Standard'}		27-Sep-2022	24-Jun-2023	{'Brazil' }	
	{'Basic' }	13	19-0ct-2022	28-Jun-2023	{'Mexico' }	47 51
	{'Standard'}	10	21-Dec-2022	26-Jun-2023	{'Spain' }	51
	{'Premium' }	15	27-0ct-2022	25-Jun-2023	{'Italy' }	39
	{'Basic' }	10	23-0ct-2022	24-Jun-2023	{'United States' }	45
	{'Premium' }	15	19-Apr-2022	25-Jun-2023	{'Canada' }	31
	{'Standard'}	11	05-Apr-2022	26-Jun-2023	{'United Kingdom'}	29
	{'Basic' }	11	11-Mar-2022	26-Jun-2023	{'Australia' }	42
	{'Standard'}	14	25-May-2022	25-Jun-2023	{'Germany' }	49
	{'Premium' }	13	16-Apr-2022	26-Jun-2023	{'France' }	42
	{'Basic' }	13	07-Apr-2022	24-Jun-2023	{'Brazil' }	29
168	{'Standard'}	10	11-Dec-2022	28-Jun-2023	{'Mexico' }	29
169	{'Premium' }	12	20-Jan-2023	26-Jun-2023	{'Spain' }	49
170	{'Basic' }	14	12-Jan-2023	25-Jun-2023	{'Italy' }	32
171	{'Premium' }	11	29-Apr-2022	24-Jun-2023	{'United States' }	35
172	{'Basic' }	12	27-Apr-2022	26-Jun-2023	{'Canada' }	39
173	{'Standard'}	15	03-Jun-2022	25-Jun-2023	{'United Kingdom'}	40
174	{'Standard'}	14	23-Apr-2022	25-Jun-2023	{'Australia' }	39
175	{'Basic' }	10	22-Apr-2022	26-Jun-2023	{'Germany' }	47
176	{'Premium' }	13	12-Apr-2022	25-Jun-2023	{'France' }	37
177	{'Basic' }	15	23-May-2022	26-Jun-2023	{'Brazil' }	27
178	{'Standard'}	13	19-0ct-2022	26-Jun-2023	{'Mexico' }	49
179	{'Premium' }	10	03-Dec-2022	26-Jun-2023	{'Spain' }	30
	{'Basic' }	14	26-Sep-2022	25-Jun-2023	{'Italy' }	36
	{'Premium' }	15	16-Jun-2022	27-Jun-2023	{'United States' }	33
182	{'Basic' }	13	16-May-2022	25-Jun-2023	{'Canada' }	30
183	{'Standard'}	15	26-May-2022	26-Jun-2023	{'United Kingdom'}	36
	{'Standard'}	13	26-Apr-2022	25-Jun-2023	{'Australia' }	28
	{'Basic' }	11	12-May-2022	25-Jun-2023	{'Germany' }	47
	{'Premium' }	12	01-Mar-2022	25-Jun-2023	{'France' }	33
	{'Basic' }	13	10-Jul-2022	24-Jun-2023	{'Brazil' }	49
	{'Standard'}	15	16-Jul-2022	27-Jun-2023	{'Mexico' }	44
	{'Premium' }	13	02-Sep-2022	26-Jun-2023	{'Spain' }	47
	{'Basic' }	11	18-Sep-2022	26-Jun-2023	{'Italy' }	37
	{'Premium' }	10	08-Jul-2022	25-Jun-2023	{'United States' }	46
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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

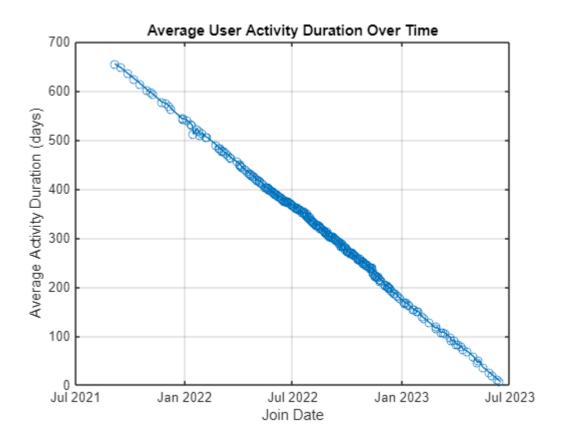
	UserID	SubscriptionType	MonthlyRevenue	JoinDate	LastPaymentDate
11	11	'Basic'	10	16-May-2022	22-Jun-2023
12	12	'Premium'	15	23-Mar-2023	28-Jun-2023
13	13	'Standard'	12	30-Nov-2021	27-Jun-2023
14	14	'Basic'	10	01-Aug-2022	26-Jun-2023

:

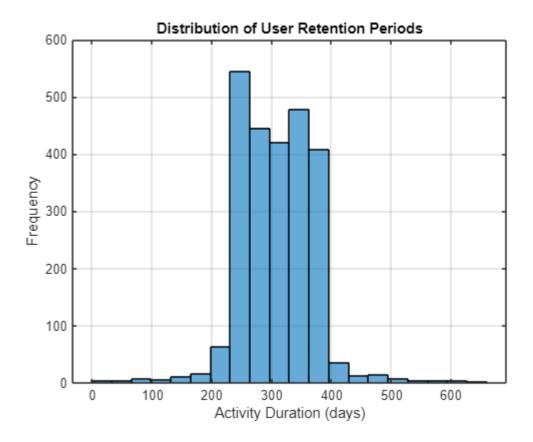
```
% Group data by JoinDate to analyze trends over time
[uniqueJoinDates, ~, groupIdx] = unique(NetflixUserbase.JoinDate);
averageDurations = accumarray(groupIdx, NetflixUserbase.ActivityDuration, [], @mean)
```

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

```
% 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;
```



```
%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;
```



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);</pre>
```

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);
```

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

churn_rate3 =
0.1172

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

Churn Rate: 11.72%

% 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
	(IPacial)	10	15-Jan-2022	10-Jun-2023	{'United States' }	28
1 2	{'Basic' } {'Premium' }	15		10-Jun-2023 22-Jun-2023	,	28 35
3	{'Premium' } {'Standard'}	12	05-Sep-2021 28-Feb-2023	27-Jun-2023	<pre>{'Canada' } {'United Kingdom'}</pre>	33 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
	{'Standard'}	12				29
44	•		26-Apr-2022	26-Jun-2023	{'Australia' }	
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
		15		22-Jun-2023		28
61	{'Premium' }		08-Feb-2023		,	
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	•	15	18-Nov-2022		•	49
	{'Standard'}			28-Jun-2023	{'Mexico' }	
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
	{'Premium' }				{'Brazil' }	
87		15	28-Dec-2021	23-Jun-2023		45
88	{'Standard'}	12	27-Sep-2022	28-Jun-2023	{'Mexico' }	47
89	{'Basic' }	15	20-Oct-2022	26-Jun-2023	{'Spain' }	39
90	{'Standard'}	13	03-Feb-2023	23-Jun-2023	{'Italy' }	49
91	{'Premium' }	11	03-Oct-2022	23-Jun-2023	{'United States' }	39
92	{'Basic' }	14	05-Jan-2022	28-Jun-2023	{ 'Canada ' }	39
93	{'Standard'}	12	05-Feb-2022	26-Jun-2023	{'United Kingdom'}	35
94	{'Premium' }	12	19-Mar-2022	25-Jun-2023	{'Australia' }	44
95	{'Basic' }	11	28-Feb-2022	25-Jun-2023	{'Germany' }	34
96	{'Premium' }	14	26-Jul-2022	24-Jun-2023	{'France' }	32
97	{'Basic' }	10	05-Mar-2022	24-Jun-2023	{'Brazil' }	29
98	{'Standard'}	13	07-Mar-2022	28-Jun-2023	{'Mexico' }	31
99	{'Standard'}	12	13-Jan-2023	24-Jun-2023	{'Spain' }	29
100	{'Basic' }	12	22-Jan-2023	25-Jun-2023	{'Italy' }	35
101	{'Premium'}	11	17-0ct-2022	24-Jun-2023	{'United States' }	46
102	{'Basic' }	12	29-Mar-2022	28-Jun-2023	{'Canada' }	31
	()				,	

103	{'Standard'}	13	04-Apr-2022	26-Jun-2023	{'United Kingdom'}	36
104	{'Premium'}	10	08-Jun-2022	25-Jun-2023	{'Australia' }	38
105	{'Basic' }	11	04-Mar-2022	27-Jun-2023	{'Germany' }	46
106	{'Premium' }	10	18-Mar-2022	24-Jun-2023	{'France' }	49
107	{'Basic' }	14	07-Mar-2022	24-Jun-2023	{'Brazil' }	29
108	{'Standard'}	12	24-May-2022	25-Jun-2023	{'Mexico' }	27
109	{'Standard'}	13	08-Feb-2023	25-Jun-2023	{'Spain' }	35
110	{'Basic' }	13	26-Jan-2023	24-Jun-2023	{'Italy' }	37
111	{'Premium'}	14	14-Jul-2022	27-Jun-2023	{'United States' }	40
112	{'Basic' }	10	01-Jun-2022	28-Jun-2023	{'Canada' }	33
113	{'Standard'}	15	07-May-2022	26-Jun-2023	{'United Kingdom'}	37
114	{'Premium'}	10	18-Nov-2022	25-Jun-2023	{'Australia' }	48
115	{'Basic' }	11	05-Apr-2022	25-Jun-2023	{'Germany' }	50
116	{'Premium'}	14	19-May-2022	23-Jun-2023	{'France' }	45
117	{'Basic' }	15	30-Oct-2021	23-Jun-2023	{'Brazil' }	40
118	{'Standard'}	12	07-Aug-2022	27-Jun-2023	{'Mexico' }	33
119	{'Standard'}	11	20-Sep-2022	25-Jun-2023	{'Spain' }	44
120	{'Basic' }	10	18-0ct-2022	25-Jun-2023	{'Italy' }	30
121	{'Premium'}	15	03-Oct-2022	24-Jun-2023	{'United States' }	27
122	{'Basic' }	11	03-May-2022	28-Jun-2023	{'Canada' }	51
123	{'Standard'}	13	25-May-2022	26-Jun-2023	{'United Kingdom'}	49
124	{'Premium'}	15	05-Nov-2022	25-Jun-2023	{'Australia' }	43
125	{'Basic' }	12	21-Aug-2022	24-Jun-2023	{'Germany' }	42
126	{'Premium'}	13	21-Sep-2022	23-Jun-2023	{'France' }	45
127	{'Basic' }	10	23-Nov-2021	23-Jun-2023	{'Brazil' }	36
128	{'Standard'}	12	06-Oct-2022	27-Jun-2023	{'Mexico' }	48
129	{'Standard'}	13	05-Nov-2022	23-Jun-2023	{'Spain' }	38
130	{'Basic' }	14	07-Jan-2023	23-Jun-2023	{'Italy' }	43
131	{'Premium'}	15	06-Oct-2022	23-Jun-2023	{'United States' }	47
132	{'Basic' }	15	24-Jun-2022	28-Jun-2023	{'Canada' }	48
133	{'Standard'}	13	24-Jun-2022	26-Jun-2023	{'United Kingdom'}	47
134	{'Premium'}	15	05-Nov-2022	25-Jun-2023	{'Australia' }	32
135	{'Basic' }	13	18-Jul-2022	26-Jun-2023	{'Germany' }	47
136	{'Premium'}	12	13-Sep-2022	26-Jun-2023	{'France' }	41
137	{'Basic' }	12	10-Aug-2022	22-Jun-2023	{'Brazil' }	49
138	{'Standard'}	15	21-Sep-2022	23-Jun-2023	{'Mexico' }	28
139	{'Standard'}	13	24-Mar-2023	23-Jun-2023	{'Spain' }	40
140	{'Basic' }	12	02-May-2022	23-Jun-2023	{'Italy' }	43
141	{'Premium'}	12	11-May-2022	27-Jun-2023	{'United States' }	42
142	{'Basic' }	14	10-Jun-2022	22-Jun-2023	{'Canada' }	28
143	{'Standard'}	14	31-Aug-2022	24-Jun-2023	{'United Kingdom'}	30
144	{'Premium'}	10	17-Aug-2022	26-Jun-2023	{'Australia' }	33
145	{'Basic' }	11	05-May-2022	26-Jun-2023	{'Germany' }	35
146	{'Basic' }	10	06-Oct-2022	25-Jun-2023	{'France' }	38
147	{'Basic' }	12	08-Nov-2022	24-Jun-2023	{'Brazil' }	49
148	{'Standard'}	15	27-Nov-2022	28-Jun-2023	{'Mexico' }	39
149	{'Premium'}	13	17-Nov-2022	27-Jun-2023	{'Spain' }	46
150	{'Basic' }	10	15-Dec-2022	23-Jun-2023	{'Italy' }	47
151	{'Basic' }	15	12-Dec-2022	25-Jun-2023	{'United States' }	30
152	{'Premium'}	14	23-Nov-2022	27-Jun-2023	{'Canada' }	33
153	{'Standard'}	11	25-Dec-2022	24-Jun-2023	{'United Kingdom'}	47
154	{'Standard'}	11	11-Mar-2023	27-Jun-2023	{'Australia' }	27
155	{'Basic' }	14	18-Nov-2022	27-Jun-2023	{'Germany' }	28
156	{'Premium'}	15	19-Aug-2022	25-Jun-2023	{'France' }	47
157	{'Standard'}	14	27-Sep-2022	24-Jun-2023	{'Brazil' }	30
158	{'Basic' }	13	19-0ct-2022	28-Jun-2023	{'Mexico' }	47
159	{'Standard'}	10	21-Dec-2022	26-Jun-2023	{'Spain' }	51
160	{'Premium'}	15	27-Oct-2022	25-Jun-2023	{'Italy' }	39
161	{'Basic' }	10	23-Oct-2022	24-Jun-2023	{'United States' }	45
162	{'Premium'}	15	19-Apr-2022	25-Jun-2023	{'Canada' }	31
163	{'Standard'}	11	05-Apr-2022	26-Jun-2023	{'United Kingdom'}	29
164	{'Basic' }	11	11-Mar-2022	26-Jun-2023	{'Australia' }	42
165	{'Standard'}	14	25-May-2022	25-Jun-2023	{'Germany' }	49
166	{'Premium'}	13	16-Apr-2022	26-Jun-2023	{'France'}	42
	•		•		-	

167	{'Basic' }	13	07-Apr-2022	24-Jun-2023	{'Brazil'	}	29
168	{'Standard'}	10	11-Dec-2022	28-Jun-2023	{'Mexico'	}	29
169	{'Premium' }	12	20-Jan-2023	26-Jun-2023	('Spain'	}	49
170	{'Basic' }	14	12-Jan-2023	25-Jun-2023	('Italy'	}	32
171	{'Premium'}	11	29-Apr-2022	24-Jun-2023	{'United States'	}	35
172	{'Basic' }	12	27-Apr-2022	26-Jun-2023	{'Canada'	}	39
173	{'Standard'}	15	03-Jun-2022	25-Jun-2023	{'United Kingdom'	}	40
174	{'Standard'}	14	23-Apr-2022	25-Jun-2023	{'Australia'	}	39
175	{'Basic' }	10	22-Apr-2022	26-Jun-2023	{'Germany'	}	47
176	{'Premium' }	13	12-Apr-2022	25-Jun-2023	{'France'	J.	37
177	{'Basic' }	15	23-May-2022	26-Jun-2023	{'Brazil'	J.	27
178	{'Standard'}	13	19-0ct-2022	26-Jun-2023	{'Mexico'	J	49
179	{'Premium' }	10	03-Dec-2022	26-Jun-2023	•	J	30
	_	14			{'Spain'	ì	36
180	{'Basic' }		26-Sep-2022	25-Jun-2023	{'Italy'	} `	
181	{'Premium' }	15 12	16-Jun-2022	27-Jun-2023	{'United States'	} `	33
182	{'Basic' }	13	16-May-2022	25-Jun-2023	{'Canada'	}	30
183	{'Standard'}	15	26-May-2022	26-Jun-2023	{'United Kingdom'	}	36
184	{'Standard'}	13	26-Apr-2022	25-Jun-2023	{'Australia'	}	28
185	{'Basic' }	11	12-May-2022	25-Jun-2023	{'Germany'	}	47
186	{'Premium' }	12	01-Mar-2022	25-Jun-2023	{'France'	}	33
187	{'Basic' }	13	10-Jul-2022	24-Jun-2023	{'Brazil'	}	49
188	{'Standard'}	15	16-Jul-2022	27-Jun-2023	{'Mexico'	}	44
189	{'Premium' }	13	02-Sep-2022	26-Jun-2023	{'Spain'	}	47
190	{'Basic' }	11	18-Sep-2022	26-Jun-2023	{'Italy'	}	37
191	{'Premium' }	10	08-Jul-2022	25-Jun-2023	{'United States'	}	46
192	{'Basic' }	14	26-Jun-2022	27-Jun-2023	{ 'Canada'	}	50
193	{'Standard'}	11	05-Aug-2022	25-Jun-2023	{'United Kingdom'	}	50
194	{'Standard'}	14	19-Aug-2022	27-Jun-2023	{'Australia'	}	37
195	{'Basic' }	11	26-Aug-2022	24-Jun-2023	{'Germany'	}	50
196	{'Premium'}	13	09-Jun-2022	24-Jun-2023	{'France'	}	45
197	{'Basic' }	14	27-Sep-2022	23-Jun-2023	{'Brazil'	}	45
198	{'Standard'}	10	18-0ct-2022	27-Jun-2023	{'Mexico'	}	49
199	{'Premium'}	14	31-Oct-2022	25-Jun-2023	('Spain'	į.	39
200	{'Basic' }	11	13-Oct-2022	25-Jun-2023	('Italy'	}	45
201	{'Premium' }	11	04-Jul-2022	27-Jun-2023	{'United States'	}	49
202	{'Basic' }	12	26-Jun-2022	27-Jun-2023	{'Canada'	}	31
203	{'Standard'}	13	31-Jul-2022	24-Jun-2023	{'United Kingdom'	}	42
204	{'Standard'}	12	27-Jul-2022	24-Jun-2023	{'Australia'	}	37
205	{'Basic' }	12	30-Jul-2022	25-Jun-2023	{'Germany'	J.	30
206	{'Premium' }	11	06-Aug-2022	25-Jun-2023	{'France'	J.	40
207	{'Basic' }	15	16-Sep-2022	24-Jun-2023	{'Brazil'	J.	45
208	{'Standard'}	15	05-Jan-2023	23-Jun-2023	{'Mexico'	J	36
200	{'Premium' }	11	10-Dec-2022	24-Jun-2023	=	J	41
	-				{'Spain'	ì	49
210	{'Basic' }	14	22-Nov-2022	26-Jun-2023	<pre>{'Italy' {'United States'</pre>	ì	49
211	{'Premium' }	15 11	15-Nov-2022	27-Jun-2023	•	} `	
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461	{'Basic' }	11	16-Jun-2022	27-Jun-2023	{'United States'	}	37
462	{'Premium'}	15	10-Jun-2022	28-Jun-2023	{'Canada'	J	45
463	{'Standard'}	11	01-Jun-2022	26-Jun-2023	{'United Kingdom'	J	40
464	{'Basic' }	13	03-Jun-2022	28-Jun-2023			45
465	{'Standard'}	11	05-Jun-2022	26-Jun-2023	{'Germany'	}	34
	-				-	ì	
466	{'Premium' }	10	07-Jun-2022	27-Jun-2023	{'France'	}	33
467	{'Basic' }	10	22-Jun-2022	26-Jun-2023	{'Brazil'	}	47
468	{'Standard'}	11	28-Jun-2022	27-Jun-2023	{'Mexico'	} `	32
469	{'Premium' }	12	29-Jun-2022	29-Jun-2023	{'Spain'	j	41
470	{'Basic' }	15	03-Jul-2022	28-Jun-2023	{'Italy'	}	31
471	{'Premium' }	15	08-Jul-2022	27-Jun-2023	{'United States'	}	43
472	{'Basic' }	10	13-Jul-2022	27-Jun-2023	{'Canada'	}	32
473	{'Standard'}	10	27-Jul-2022	28-Jun-2023	{'United Kingdom'	}	46
474	{'Standard'}	14	30-Jul-2022	28-Jun-2023	{'Australia'	}	38
475	{'Basic' }	11	13-Aug-2022	26-Jun-2023	{'Germany'	}	31
476	{'Premium' }	14	18-Aug-2022	26-Jun-2023	{'France'	}	31
477	{'Basic' }	10	24-Aug-2022	27-Jun-2023	{'Brazil'	}	50
478	{'Standard'}	10	08-Sep-2022	27-Jun-2023	{'Mexico'	}	32
479	{'Premium' }	13	04-Sep-2022	27-Jun-2023	{'Spain'	}	38
480	{'Basic' }	15	04-Sep-2022	27-Jun-2023	{'Italy'	}	37
481	{'Premium'}	12	04-Sep-2022	26-Jun-2023	{'United States'	}	36
482	{'Basic' }	11	27-Aug-2022	27-Jun-2023	{ 'Canada '	}	30
483	{'Standard'}	14	25-Aug-2022	27-Jun-2023	('United Kingdom'	}	28
484	{'Standard'}	13	25-Aug-2022	28-Jun-2023	{'Australia'	}	40
485	{'Basic' }	14	01-Sep-2022	28-Jun-2023	{'Germany'	}	28
486	{'Premium'}	15	13-Sep-2022	26-Jun-2023	{'France'	}	37
	,		•		-	-	

487	{'Basic' }	15	05-Oct-2022	29-Jun-2023	{'Brazil'	} 30	
488	{'Standard'}	11	08-Oct-2022	28-Jun-2023	{'Mexico'	} 33	
489	{'Premium'}	11	26-Oct-2022	28-Jun-2023	{'Spain'	} 49	
490	{'Basic' }	12	18-Oct-2022	29-Jun-2023	{'Italy'	} 36	
491	{'Premium'}	12	07-0ct-2022	28-Jun-2023	{'United States'	} 28	
492	{'Basic' }	10	17-Sep-2022	30-Jun-2023	{'Canada'	} 51	
493	{'Standard'}	11	18-Sep-2022	27-Jun-2023	{'United Kingdom'	,	
494	{'Standard'}	14	27-Sep-2022	29-Jun-2023	{'Australia'	} 31	
495	{'Basic' }	13	30-Sep-2022	27-Jun-2023	{'Germany'	} 39	
496	{'Premium' }	10	30-Oct-2022	30-Jun-2023	{'France'	} 51	
497	{'Basic' }	11	09-Nov-2022	29-Jun-2023	{'Brazil'	} 44	
498	{'Standard'}	11	17-Nov-2022	28-Jun-2023	{'Mexico'	} 41	
499	{'Premium' }	10	18-Nov-2022	26-Jun-2023	{'Spain'	} 28	
	_	15	22-Nov-2022			} 38	
500	{'Basic' }	14	22-Nov-2022 22-Nov-2022	30-Jun-2023 28-Jun-2023	{'Italy'	} 43	
501	{'Premium' }				{'Spain'	•	
502	{'Basic' }	13	21-Nov-2022	30-Jun-2023	{'Spain'	} 38	
503	{'Standard'}	14	10-Nov-2022	26-Jun-2023		} 30	
504	{'Standard'}	12	21-0ct-2022	29-Jun-2023	{'Canada'	32	
505	{'Basic' }	11	21-0ct-2022	28-Jun-2023	{'United States'	35	
506	{'Premium' }	14	23-0ct-2022	29-Jun-2023	{'United States'	,	
507	{'Basic' }	15	24-0ct-2022	26-Jun-2023		} 49	
508	{'Standard'}	12	23-Oct-2022	28-Jun-2023	{'United Kingdom'		
509	{'Premium' }	10	21-0ct-2022	28-Jun-2023	{'Australia'	} 40	
510	{'Basic' }	15	06-Oct-2022	29-Jun-2023	{'Germany'	} 43	
511	{'Premium' }	11	26-Jul-2022	28-Jun-2023	{'France'	} 44	
512	{'Basic' }	15	13-Jul-2022	28-Jun-2023	{'Brazil'	} 32	
513	{'Standard'}	10	06-Jul-2022	28-Jun-2023	{'Mexico'	} 50	
514	{'Standard'}	14	07-Jul-2022	28-Jun-2023	{'Spain'	} 35	
515	{'Basic' }	15	01-Jul-2022	29-Jun-2023	{'Italy'	} 44	
516	{'Premium'}	14	31-Jul-2022	28-Jun-2023	{'Spain'	} 42	
517	{'Basic' }	12	06-Aug-2022	28-Jun-2023	{'Spain'	34	
518	{'Standard'}	15	07-Aug-2022	27-Jun-2023		· } 37	
519	{'Premium'}	10	06-Aug-2022	28-Jun-2023	{'Canada'	} 43	
520	{'Basic' }	13	03-Aug-2022	28-Jun-2023	{'United States'	} 32	
521	{'Basic' }	15	18-Jun-2022	28-Jun-2023	{'United States'	} 33	
522	{'Basic' }	14	17-Jun-2022	27-Jun-2023	{'Canada'	} 32	
523	{'Standard'}	13	07-Jun-2022	29-Jun-2023	{'United Kingdom'	,	
524	{'Premium' }	15	06-Jun-2022	28-Jun-2023	{'Australia'	} 31	
525	{'Basic' }	14	04-Jun-2022	27-Jun-2023	{'Germany'	} 44	
526	{'Basic' }	11	20-Jun-2022	28-Jun-2023	{'France'	} 49	
527	{'Premium' }	10	10-Jul-2022	28-Jun-2023	{'Brazil'	} 48	
528	{'Standard'}	13	13-Jul-2022	29-Jun-2023		} 42	
529	{'Standard'}	11	07-Jul-2022	27-Jun-2023	{'Spain'	, 42 } 50	
					• •	} 49	
530	{'Basic' }	14	22-Jun-2022	28-Jun-2023 27-Jun-2023	{'Italy'	,	
531	{'Premium' }	14	15-Jun-2022		{'Spain'	30	
532	{'Standard'}	11	03-Jun-2022	28-Jun-2023	{'Spain'	} 38	
533	{'Basic' }	14	04-Jun-2022	27-Jun-2023	{'United States'	} 38	
534	{'Standard'}	11	05-Jun-2022	28-Jun-2023	{'Canada'	} 39	
535	{'Premium' }	15	07-Jun-2022	29-Jun-2023	{'United States'	} 42	
536	{'Basic' }	10	14-Jun-2022	29-Jun-2023	{'United States'	} 28	
537	{'Premium'}	10	17-Jun-2022	27-Jun-2023	{'Canada'	} 38	
538	{'Standard'}	14	19-Jun-2022	28-Jun-2023	{'United Kingdom'		
539	{'Basic' }	12	02-Jul-2022	29-Jun-2023	{'Australia'	} 30	
540	{'Standard'}	10	03-Jul-2022	29-Jun-2023	{'Germany'	} 40	
541	{'Premium' }	10	13-Jul-2022	27-Jun-2023	{'France'	} 31	
542	{'Basic' }	14	26-Jul-2022	27-Jun-2023	{'Brazil'	} 41	
543	{'Standard'}	11	27-Jul-2022	28-Jun-2023	{'Mexico'	} 37	
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'	•	
-	, ,	==	r -v			,	

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	05-0ct-2022	29-Jun-2023	{'Brazil' }	37
558	{'Standard'}	14	18-Oct-2022	30-Jun-2023	{'Mexico' }	37
	•					
559	{'Standard'}	13	19-0ct-2022	28-Jun-2023	{'Spain' }	51
560	{'Basic' }	15	14-0ct-2022	29-Jun-2023	{'Italy' }	45
561	{'Premium' }	14	30-Sep-2022	28-Jun-2023	{'Spain' }	29
562	{'Basic' }	14	-	30-Jun-2023		37
	,		19-Sep-2022		{'Spain' }	
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	11-0ct-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	26-0ct-2022	29-Jun-2023	{'Spain' }	36
575	{'Basic' }	13	25-0ct-2022	28-Jun-2023	{'Italy' }	38
576	{'Premium' }	15	26-0ct-2022	30-Jun-2023	{'Spain' }	49
577	{'Basic' }	15	23-0ct-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
	,			29-Jun-2023		
592	•	15	09-Jun-2022		{'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		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
			-		-	

```
{'Standard'}
                                                                                                    43
615
                                 13
                                             15-Aug-2022
                                                             27-Jun-2023
                                                                              {'Germany'
         {'Premium' }
                                 14
                                             02-Sep-2022
                                                             27-Jun-2023
                                                                               {'France'
                                                                                                    38
616
617
         {'Basic'
                                 11
                                             05-Sep-2022
                                                             28-Jun-2023
                                                                              {'Brazil'
                                                                                                    45
                                                                              {'Mexico'
618
         {'Standard'}
                                 10
                                             06-Sep-2022
                                                             28-Jun-2023
                                                                                                    28
619
         {'Premium' }
                                             06-Sep-2022
                                                             29-Jun-2023
                                                                              {'Spain'
                                                                                                    27
                                 11
620
         {'Basic'
                                             05-Sep-2022
                                                             27-Jun-2023
                                                                              {'Italy'
                                                                                                    41
                                 11
         {'Premium' }
                                                                              {'Spain'
                                                                                                    49
621
                                 14
                                             06-Sep-2022
                                                             29-Jun-2023
         {'Basic'
622
                                 12
                                             29-Aug-2022
                                                             28-Jun-2023
                                                                              {'Spain'
                                                                                                    35
         {'Standard'}
                                 13
                                             30-Aug-2022
                                                             28-Jun-2023
                                                                              {'United States'
                                                                                                    29
623
                                             02-Sep-2022
         {'Standard'}
                                 10
                                                             30-Jun-2023
                                                                              { 'Canada '
                                                                                                    42
624
                                             20-Sep-2022
625
         {'Basic'
                                 15
                                                             28-Jun-2023
                                                                              {'United States'
                                                                                                    33
         {'Premium' }
                                             23-Sep-2022
626
                                 10
                                                             30-Jun-2023
                                                                              {'United States' }
                                                                                                    30
         {'Basic'
                                             29-Sep-2022
                                                             29-Jun-2023
                                                                              { 'Canada '
                                                                                                    43
627
                                 11
         {'Standard'}
628
                                10
                                             09-0ct-2022
                                                             01-Jul-2023
                                                                              {'United Kingdom'}
                                                                                                    42
629
         {'Premium' }
                                11
                                             12-0ct-2022
                                                             29-Jun-2023
                                                                              {'Australia'
                                                                                                    39
630
         {'Basic'
                                 15
                                             06-0ct-2022
                                                             30-Jun-2023
                                                                              {'Germany'
                                                                                                    32
         {'Premium' }
                                             21-Sep-2022
                                                             28-Jun-2023
                                                                              {'France'
631
                                                                                               }
```

```
% 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
    1
    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 Gender Device Country Age 1 Standard 12 42 Male Smart TV United Kingdom 2 Standard Female 12 Australia 51 Laptop 3 Basic 10 Germany 33 Male Smartphone 4 10 39 Female Laptop Basic Mexico 5 Standard 12 Spain 37 Male Smartphone 6 Female Premium 15 44 Smart TV Italy 7 Basic 10 **United States** 31 Female Smartphone 8 Premium 15 Canada 45 Male Tablet 9 10 Australia 27 Male Smartphone Basic 10 Premium 15 France 36 Male **Tablet** 11 Standard 12 Mexico 43 Male Smartphone 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), :)

 $testData = 750 \times 8 table$

SubscriptionType Gender Device MonthlyRevenue Country Age 1 10 Basic **United States** 28 Male Smartphone 2 Premium Canada 35 Female **Tablet** 15 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

ndard					
raara	12	Australia	31	Male	Tablet
ic	10	Germany	40	Female	Laptop
ic	10	Brazil	47	Female	Smart TV
ndard	12	Mexico	33	Male	Tablet
mium	15	France	35	Male	Tablet
ic	10	Germany	43	Female	Laptop
i	ndard	10 10 12 15 15 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	10 Brazil ndard 12 Mexico mium 15 France	ic 10 Brazil 47 idard 12 Mexico 33 mium 15 France 35	10 Brazil 47 Female 1dard 12 Mexico 33 Male mium 15 France 35 Male

% 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;

```
% 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

:

 $X_{\text{test_combined}} = 750 \times 4 \text{ table}$

	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);

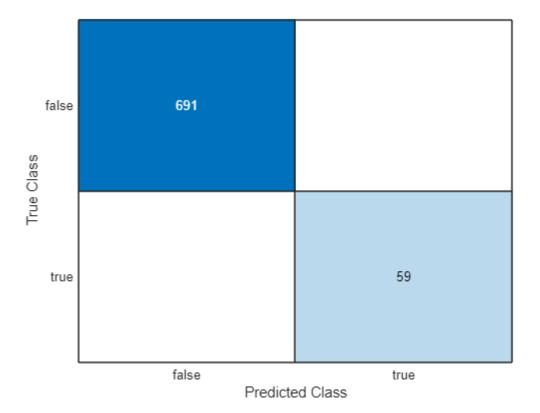
% Display model details
disp(randomForestModel);
```

```
{\tt 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

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

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



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

Accuracy: 100.00%

```
% 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

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

Recall: 1.00

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

F1-Score: 1.00

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