Customer Behaviour Analysis Part IV

Customer Behaviour Analysis

Understanding the customer behaviour towards visiting website is critical for the business.

One of the areas in analysing user behaviour is to identify any seasonality present in the user visits in hour wise, weekday wise and month wise.

Business also wants to determine if any change in the user behaviour after they have implemented business strategies like conducting paid campaign, or providing offerings to the customers.

Customer Behaviour Analysis

The website development team also wants to know how their website pages are performing.

They just want to know that in case any content change in the website pages was done, how that reflects in the customer's behaviour.

It is also important to know how the channels are performing. Users are coming from different channels, their behaviour may also be different.

Customer Behaviour Analysis

Customers can be new to the website or repeated visits.

We should distinguish how many new users are visiting the website and how much time they spent in the website pages. That may be different from that of repeated users.

The ultimate goal is to determine how much revenue generated. We should also articulate how the customer behaviour impacts the revenue generation.

Measurements

The measurements:

- Total sessions
- Total Orders
- Average Pages viewed.
- Average time spent in the website.
- Total Items purchased.
- Revenue
- Total Cost
- Total Margin.

Categories:

- Hour
- Day
- Month
- Year
- Product
- UTM Source
- UTM Campaign
- Device Type
- User Type

The following slides show three dashboards, one is for all users, another one is for new users and the last one is for repeated users.

All Users Dashboard









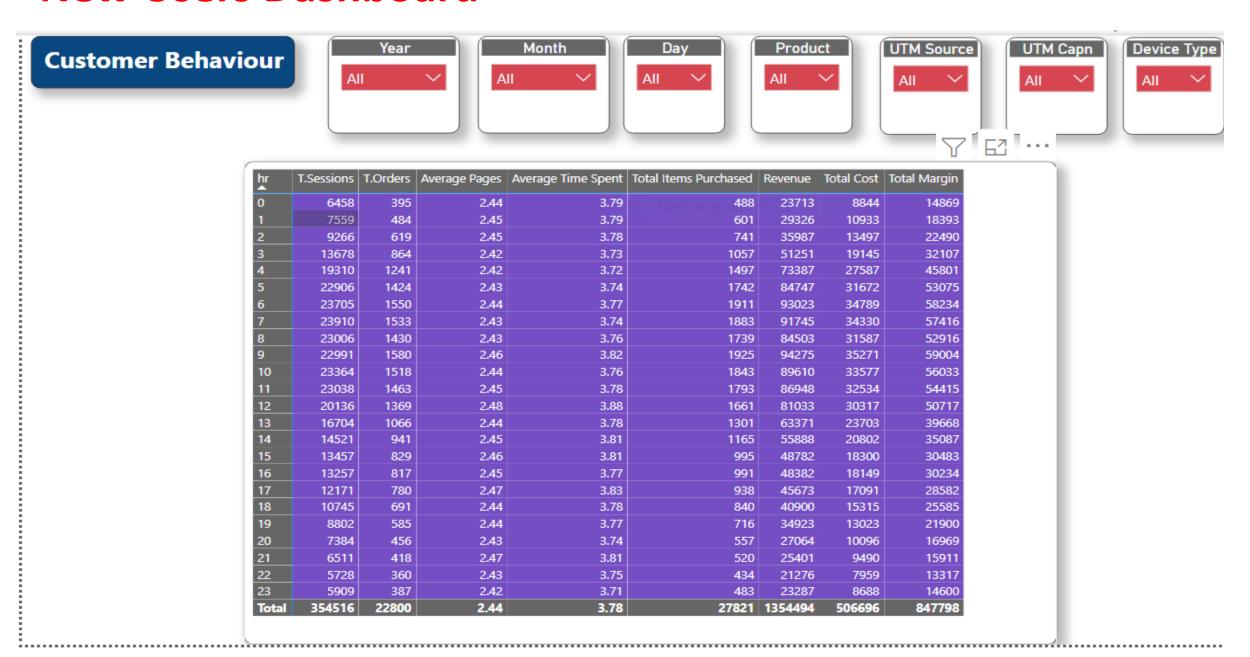






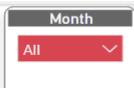
hr	T.Sessions	T.Orders	Average Pages	Average Time Spent	Total Items Purchased	Revenue	Total Cost	Total Margin
0	7698	482	2.47	3.88	Rectangui 584	28484	10648	17836
1	8931	599	2.49	3.92	745	36197	13485	22712
2	11012	769	2.49	3.90	930	45327	16978	28349
3	16170	1049	2.46	3.85	1287	62405	23310	39096
4	23047	1521	2.47	3.84	1848	90452	33945	56507
5	27247	1769	2.48	3.85	2161	105292	39363	65930
6	28224	1902	2.48	3.87	2350	114201	42693	71507
7	28415	1880	2.48	3.86	2316	112567	42078	70489
8	27423	1764	2.48	3.88	2146	104243	38916	65327
9	27429	1931	2.50	3.92	2362	115350	43089	72261
10	27836	1869	2.48	3.88	2279	110663	41389	69275
11	27459	1798	2.49	3.88	2219	107538	40188	67350
12	24030	1677	2.51	3.96	2045	99622	37233	62389
13	19888	1271	2.47	3.86	1567	76180	28457	47724
14	17291	1141	2.48	3.91	1415	68144	25387	42757
15	15997	1031	2.51	3.95	1239	60470	22656	37814
16	15739	1008	2.49	3.91	1225	59950	22480	37470
17	14460	967	2.50	3.92	1161	56526	21128	35399
18	12761	846	2.50	3.93	1035	50396	18834	31562
19	10496	692	2.47	3.85	848	41400	15469	25931
20	8785	559	2.48	3.88	685	33177	12384	20794
21	7703	513	2.51	3.92	637	31078	11609	19469
22	6874	450	2.48	3.88	540	26461	9897	16564
23	7041	485	2.48	3.86	603	29118	10866	18252
Total	421956	27973	2.49	3.89	34227	1665238	622481	1042757

New Users Dashboard



Repeated Users Dashboard















hr	T.Sessions	T.Orders	Average Pages	Average Time Spent	Total Items Purchased	Revenue	Total Cost	Total Margi
0	1240	87	2.62	4.34	Rectangula 96	4771	1804	296
1	1372	115	2.76	4.66	144	6871	2552	431
2	1746	150	2.73	4.52	189	9340	3481	586
3	2492	185	2.71	4.50	230	11154	4165	698
4	3737	280	2.70	4.47	351	17064	6358	1070
5	4341	345	2.70	4.43	419	20546	7691	1285
6	4519	352	2.68	4.45	439	21178	7904	132
7	4505	347	2.70	4.46	433	20822	7748	130
8	4417	334	2.71	4.47	407	19740	7328	124
9	4438	351	2.71	4.43	437	21076	7818	132
10	4472	351	2.71	4.49	436	21054	7812	132
11	4421	335	2.69	4.38	426	20590	7655	129
12	3894	308	2.68	4.41	384	18588	6916	116
13	3184	205	2.65	4.30	266	12809	4753	80
14	2770	200	2.69	4.44	250	12255	4585	76
15	2540	202	2.77	4.66	244	11688	4357	73
16	2482	191	2.75	4.66	234	11568	4332	72
17	2289	187	2.69	4.42	223	10854	4037	68
18	2016	155	2.78	4.71	195	9496	3520	59
19	1694	107	2.65	4.28	132	6477	2446	40
20	1401	103	2.74	4.57	128	6113	2288	38
21	1192	95	2.73	4.53	117	5677	2119	35
22	1146	90	2.74	4.53	106	5185	1938	32
23	1132	98	2.78	4.63	120	5831	2179	36
Total	67440	5173	2.71	4.47	6406	310744	115785	1949

We can show the same dashboards, how they are reflected when we select different combination of the values in filters.

All Users Dashboard















hr	T.Sessions	T.Orders	Average Pages	Average Time Spent	Total Items Purchased	Revenue	Total Cost	Total Margi
0	68	6	2.18	3.01	Rectangulai ⁶	Snip 300	117	18.
1	85	8	2.76	4.44	8	410	159	25
2	139	9	2.40	3.86	9	450	175	27
3	171	7	2.19	3.24	7	360	139	22
4	250	12	2.33	3.46	12	630	243	38
5	307	15	2.32	3.48	15	770	298	47
6	309	18	2.34	3.51	18	960	369	59
7	302	12	2.25	3.19	12	620	240	38
8	265	15	2.49	4.02	15	800	307	49
9	269	15	2.39	3.91	15	770	298	47
10	282	19	2.38	3.81	19	980	379	60
11	304	25	2.55	4.02	25	1280	496	78
12	257	15	2.32	3.60	15	760	295	46
13	202	12	2.31	3.47	12	600	234	36
14	188	14	2.61	4.09	14	710	276	43
15	178	11	2.37	3.66	11	570	220	35
16	145	12	2.43	3.35	12	610	237	37
17	141	11	2.67	4.21	11	560	217	34
18	139	10	2.47	4.14	10	510	198	31
19	125	10	2.46	3.93	10	530	204	32
20	105	6	2.45	3.64	6	330	126	20
21	79	4	2.42	3.51	4	210	81	12
22	66	5	2.33	3.62	5	250	97	15
23	73	2	2.37	3.71	2	100	39	ϵ
Total	4449	273	2.40	3.69	273	14067	5447	862

Customer Behaviour

Month
03 -- March∨

Day

Product
All

gsear... V

gsear... V

All ×



hr •	T.Sessions	T.Orders	Average Pages	Average Time Spent	Total Items Purchased	Revenue	Total Cost	Total Margin
0	62	6	2.16	2.95	 Rectangulai6. 	Snip 300	117	183
1	81	8	2.78	4.42	8	410	159	251
2	135	9	2.42	3.90	9	450	175	275
3	161	5	2.13	3.06	5	260	100	160
4	236	12	2.32	3.41	12	630	243	387
5	295	15	2.35	3.56	15	770	298	472
6	289	17	2.34	3.54	17	910	349	561
7	285	12	2.26	3.22	12	620	240	380
8	246	15	2.47	4.00	15	800	307	493
9	259	15	2.44	4.03	15	770	298	472
10	263	18	2.38	3.85	18	920	357	563
11	284	24	2.55	4.06	24	1230	477	753
12	235	15	2.36	3.74	15	760	295	465
13	192	12	2.32	3.46	12	600	234	366
14	176	14	2.57	3.97	14	710	276	434
15	174	- 11	2.33	3.58	11	570	220	350
16	136	12	2.45	3.38	12	610	237	373
17	131	9	2.62	4.14	9	460	178	282
18	128	7	2.38	3.91	7	360	139	221
19	118	9	2.45	3.89	9	480	184	296
20	99	6	2.41	3.57	6	330	126	204
21	78	4	2.44	3.55	4	210	81	129
22	61	5	2.31	3.61	5	250	97	153
23	69	2	2.33	3.54	2	100	39	61
Tota	I 4193	262	2.39	3.69	262	13507	5229	8278

Repeated Users Dashboard

















hr	T.Sessions	T.Orders	Average Pages	Average Time Spent	Total Items Purchased	Revenue	Total Cost	Total Margin
0	6	0	2.33	3.67	 Rectangular^o. 	Snip 0	0	C
1	4	0	2.50	4.75	0	0	0	O
2	4	0	1.50	2.25	0	0	0	O
3	10	2	3.20	6.10	2	100	39	61
4 5	14	0	2.50	4.29	0	0	0	C
5	12	0	1.67	1.42	0	0	0	O
6 7	20	1	2.30	3.15	1	50	19	31
7	17	0	2.12	2.71	0	0	0	O
8	19	0	2.84	4.37	0	0	0	O
9	10	0	1.20	0.80	0	0	0	0
10	19	1	2.42	3.21	1	60	22	38
11	20	1	2.45	3.40	1	50	19	31
12	22	0	1.95	2.09	0	0	0	O
13	10	0	2.20	3.60	0	0	0	C
14	12	0	3.17	5.92	0	0	0	0
15	4	0	4.00	7.00	0	0	0	O
16	9	0	2.11	2.89	0	0	0	O
17	10	2	3.40	5.20	2	100	39	61
18	11	3	3.64	6.73	3	150	58	92
19	7	1	2.71	4.57	1	50	19	31
20	6	0	3.00	4.83	0	0	0	0
21	- 1	0	1.00	0.00	0	0	0	O
22	5	0	2.60	3.80	0	0	0	0
23	4	0	3.00	6.75	0	0	0	O
Total	256	11	2.48	3.74	11	560	217	343

Next three dashboards with different combinations of values selected in filters.

All Users Dashboard









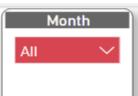




ır	T.Sessions	T.Orders	Average Pages	Average Time Spent	Total Items Purchased	Revenue	Total Cost	Total Margir
	151	10	2.71	4.37	Rectangula 14	_{Snip} 730	274	450
	156	12	2.63	4.17	15	716	266	450
2	186	12	2.53	3.95	21	910	324	58
3	286	12	2.32	3.64	13	644	232	41
4	433	37	2.66	4.51	56	2713	995	171
5	465	39	2.54	4.09	57	2655	971	168
5	519	39	2.50	3.88	54	2667	984	168
7	482	25	2.42	3.65	34	1716	637	107
3	476	38	2.64	4.20	50	2440	899	154
)	486	42	2.49	3.89	56	2661	987	167
0	521	29	2.40	3.69	36	1812	682	113
1	515	43	2.63	4.15	58	2761	1022	173
2	421	37	2.62	4.24	47	2246	819	142
3	370	23	2.49	3.89	34	1626	594	103
4	346	34	2.65	4.21	47	2168	791	137
5	265	21	2.63	4.28	30	1484	538	94
6	306	26	2.68	4.20	37	1800	663	113
7	252	25	2.63	4.24	29	1458	533	92
8	230	19	2.47	3.88	24	1106	393	71
9	191	16	2.57	4.15	23	1058	389	66
20	157	7	2.68	4.64	7	346	131	21
1	148	7	2.45	3.59	10	506	185	32
2	132	8	2.58	3.95	9	476	179	29
3	123	7	2.46	4.09	11	486	179	30
otal	7617	568	2.55	4.04	772	37182	13669	2351

New Users Dashboard











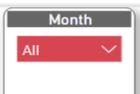




hr •	T.Sessions	T.Orders	Average Pages	Average Time Spent	Total Items Purchased	Revenue	Total Cost	Total Margin
0	127	9	2.67	4.04	Rectangula 13	Snin 670	251	419
1	122	8	2.56	3.95	10	480	181	299
2	150	10	2.52	3.99	18	784	281	503
3	232	9	2.23	3.47	9	458	166	292
4	344	32	2.62	4.38	49	2348	858	1490
5	376	34	2.50	3.99	51	2363	864	1500
6	431	32	2.42	3.65	45	2242	828	1414
7	401	22	2.42	3.62	29	1474	549	925
8	389	35	2.62	4.11	47	2284	842	1442
9	387	28	2.39	3.69	37	1776	656	1120
10	442	25	2.34	3.53	30	1516	574	942
11	425	34	2.61	4.11	46	2210	823	1387
12	341	26	2.58	4.06	33	1566	575	991
13	307	19	2.48	3.80	29	1356	490	866
14	289	28	2.59	4.06	39	1776	649	1127
15	217	17	2.60	4.09	25	1242	450	792
16	254	21	2.65	4.10	30	1444	533	911
17	210	21	2.58	4.06	25	1248	452	796
18	188	8	2.25	3.31	11	486	175	311
19	157	14	2.58	4.15	20	918	338	580
20	135	6	2.61	4.47	6	296	112	184
21	124	5	2.31	3.29	8	396	143	253
22	100	5	2.53	3.80	6	316	118	198
23	104	5	2.41	4.09	8	356	131	225
Total	6252	453	2.50	3.90	624	30000	11040	18960

Repeated Users Dashboard















hr	T.Sessions	T.Orders	Average Pages	Average Time Spent	Total Items Purchased	Revenue	Total Cost	Total Margin
0	24	1	2.92	6.13	■ Rectangular¹	Snip 60	22	38
1	34	4	2.91	4.94	5	236	85	151
2	36	2	2.56	3.75	3	126	43	83
3	54	3	2.70	4.39	4	186	66	120
4	89	5	2.83	5.00	7	366	137	229
5	89	5	2.72	4.48	6	292	107	185
6	88	7	2.89	5.05	9	426	156	270
7	81	3	2.42	3.78	5	242	87	155
8	87	3	2.71	4.57	3	156	56	100
9	99	14	2.88	4.68	19	886	331	555
10	79	4	2.76	4.62	6	296	108	188
11	90	9	2.74	4.32	12	552	200	352
12	80	11	2.83	4.98	14	680	244	436
13	63	4	2.56	4.32	5	270	103	167
14	57	6	2.96	4.96	8	392	142	250
15	48	4	2.77	5.13	5	242	87	155
16	52	5	2.81	4.65	7	356	130	226
17	42	4	2.88	5.14	4	210	81	129
18	42	11	3.45	6.43	13	620	217	403
19	34	2	2.53	4.12	3	140	51	89
20	22	1	3.09	5.68	1	50	19	31
21	24	2	3.21	5.17	2	110	42	68
22	32	3	2.75	4.41	3	160	61	99
23	19	2	2.68	4.11	3	130	48	82
Total	1365	115	2.79	4.71	148	7183	2630	4553

Next three dashboards with different combinations of values selected in filters.

All Users Dashboard



New Users Dashboard



Repeated Users Dashboard



0	12	12	7.00	14.42	 Rectangula¹² 	_{5nio} 720	270	450
1	16	16	7.00	14.94	19	1050	388	662
2	14	14	7.00	14.79	17	966	358	608
3	25	25	7.00	14.60	30	1650	610	1040
4	24	24	7.00	14.75	30	1672	617	1055
5	45	45	7.00	14.27	58	3157	1160	1997
6	29	29	7.00	15.24	36	1966	724	1242
7	30	30	7.00	15.03	38	2056	756	1300
8	26	26	7.00	15.46	28	1636	609	1027
9	36	36	7.00	14.50	43	2406	891	1515
10	40	40	7.00	14.45	50	2752	1015	1737
11	39	39	7.00	13.95	51	2783	1021	1763
12	26	26	7.00	15.08	33	1786	656	1130
13	21	21	7.00	14.48	27	1440	529	911
14	17	17	7.00	14.94	22	1210	450	760
15	13	13	7.00	13.69	14	810	302	508
16	24	24	7.00	15.42	28	1576	583	993
17	15	15	7.00	17.27	16	930	347	583
18	15	15	7.00	15.87	20	1066	390	676
19	14	14	7.00	15.29	16	900	334	566
20	7	7	7.00	14.29	7	420	157	263
21	8	8	7.00	14.25	9	510	189	321
22	12	12	7.00	14.83	16	840	308	532
23	10	10	7.00	13.90	10	600	225	375
Total	518	518	7.00	14.79	630	34898	12888	22010

The following slides show three dashboards, one is for By Hours, another one is By Day and the last one is for By Month.

The measurements are total sessions, Total Orders and Revenue.

By Hour Dashboard



By Day Dashboard



By Month Dashboard



We can show the same dashboards, how they are reflected when we select different combination of the values in filters.

By Hour Dashboard



By Day Dashboard







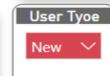






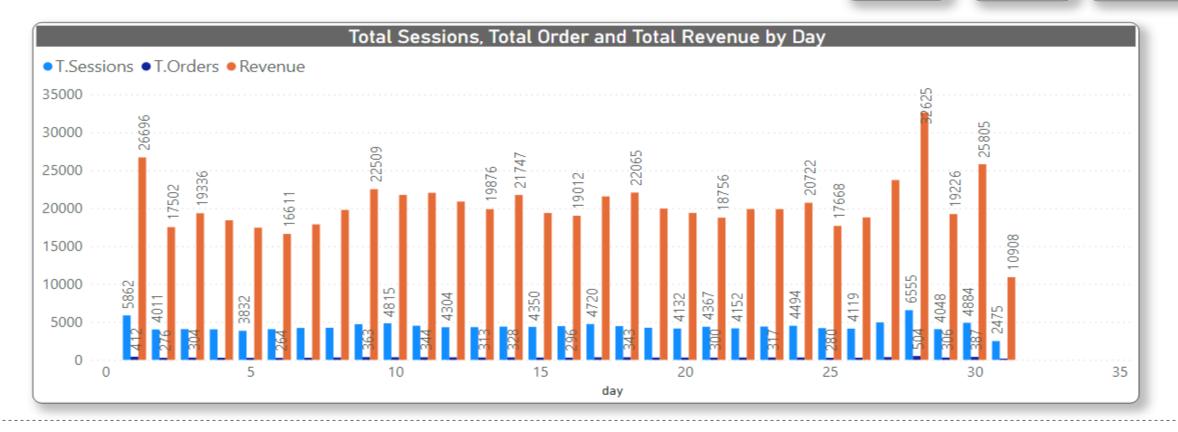












By Month Dashboard













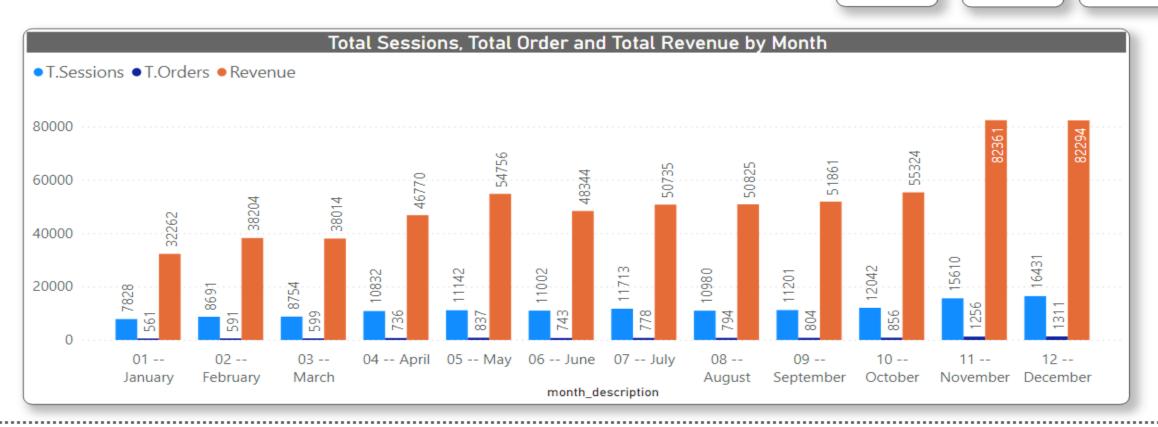










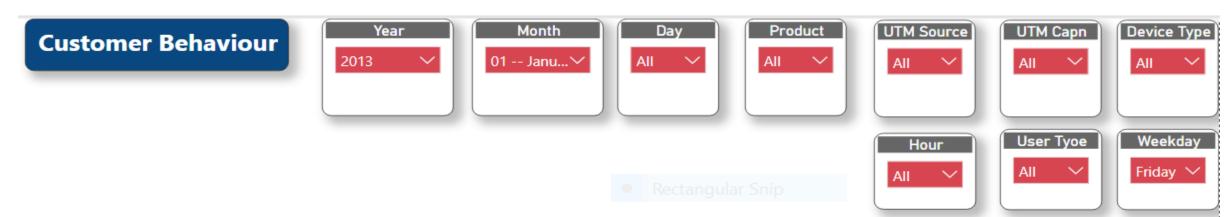


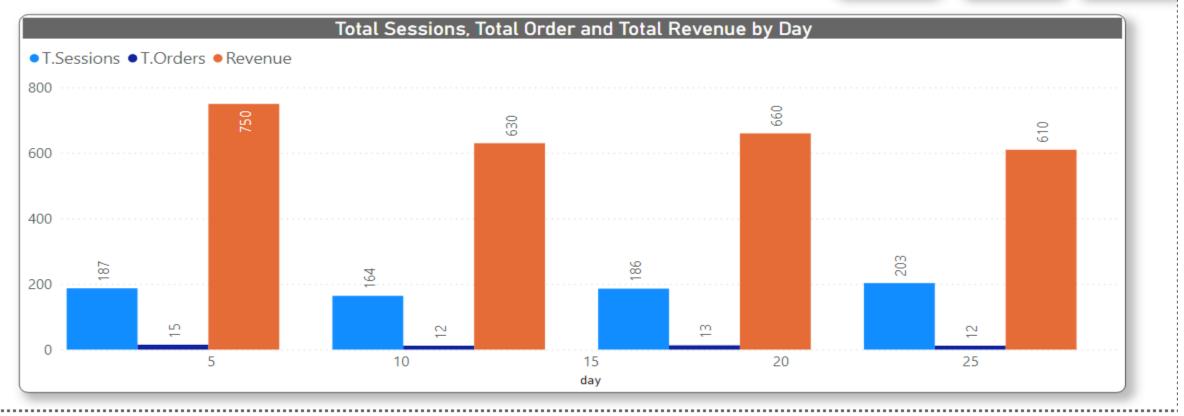
Next three dashboards with different combinations of values selected in filters.

By Hour Dashboard

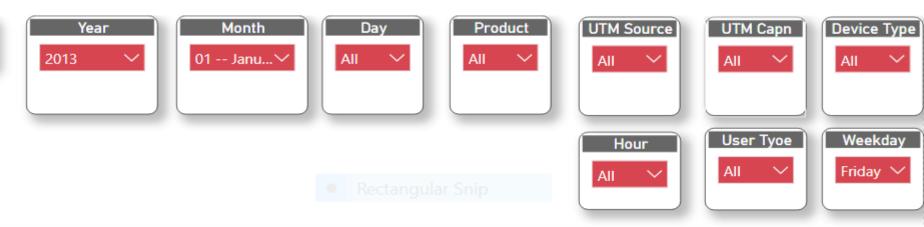


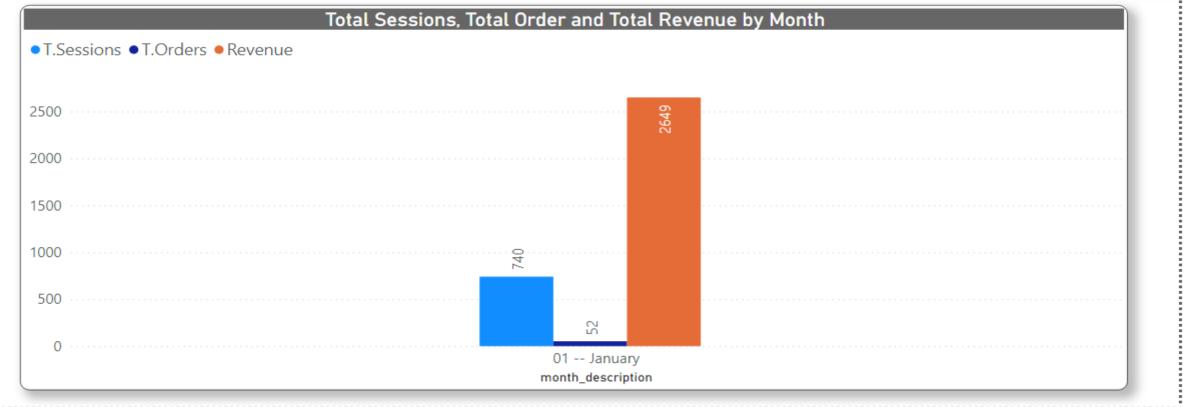
By Day Dashboard





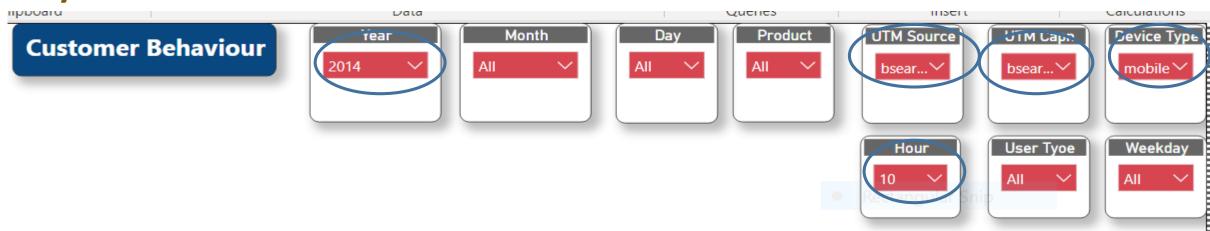
By Month Dashboard

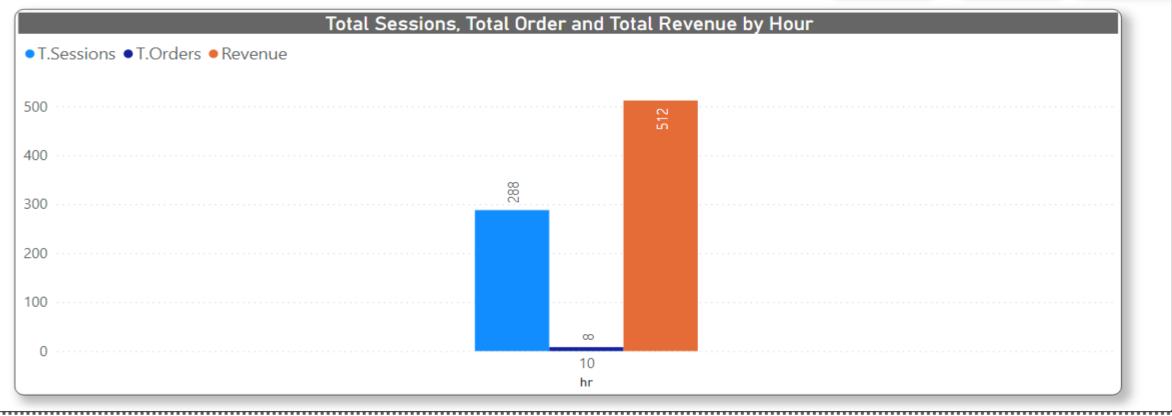




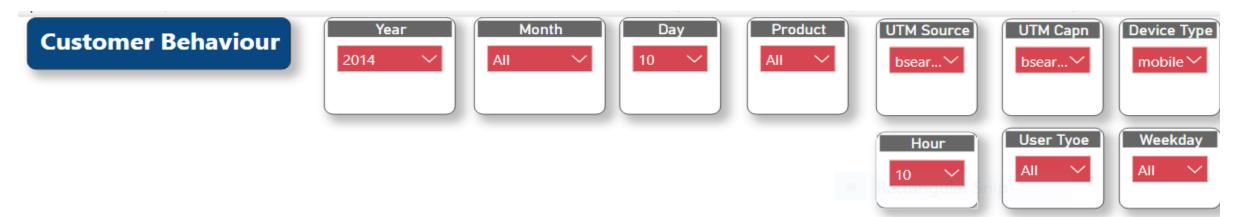
Next three dashboards with different combinations of values selected in filters.

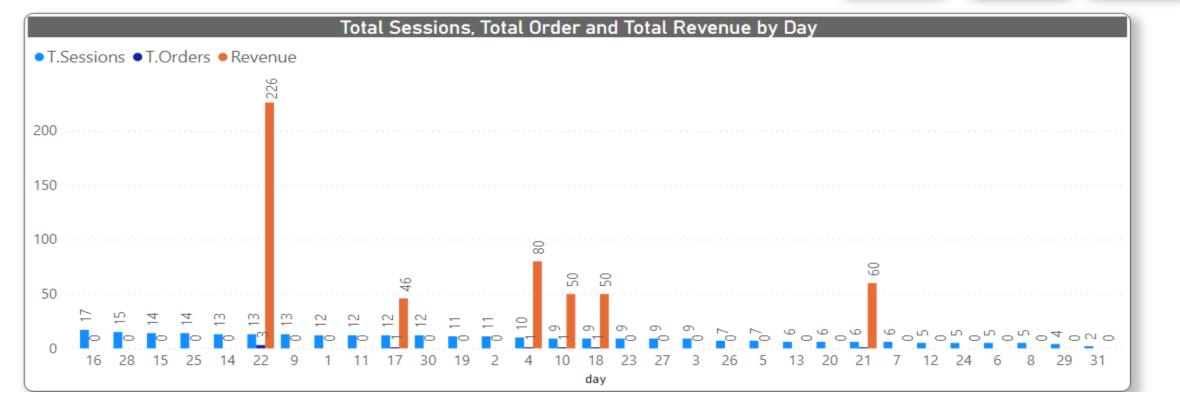
By Hour Dashboard

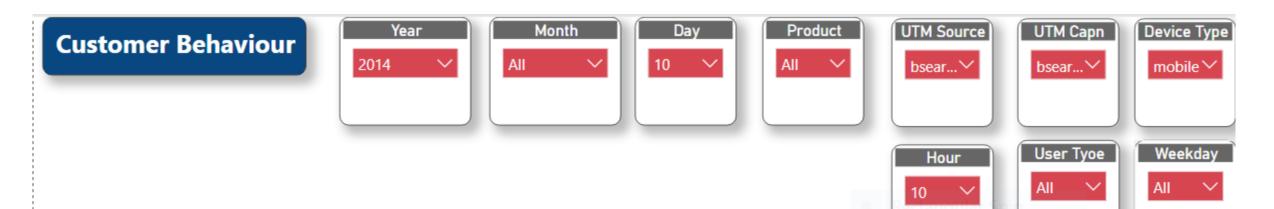


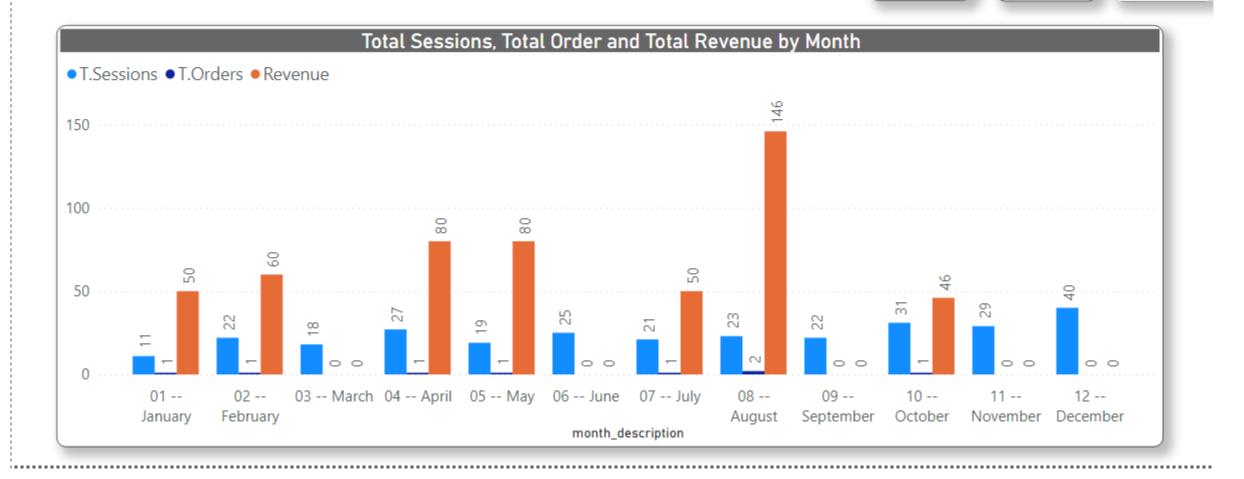


By Day Dashboard









Thank You