

### 3. Data Cleaning

Data cleaning is an essential step that should be conducted before analyzing and visualizing.

Data cleaning involves fixing or removing incorrect, incorrectly formatted, duplicate, or incomplete data within a dataset.

#### 3.1. Removing Repeated Word

Column Name: County

**Before:**

The "County" column includes value like "Los Angeles/Autauga County," where the word "County" was repeated. To fix this and display only the county name, we used a function called SUBSTITUTE() to take out the extra word.

case_id	state	isMetro	areaname	county	family_member_count	housing_cost	food_cost	transportation_cost	healthcare_cost	other_necessities_cost	childcare_cost
1	AL	TRUE	Montgomery, AL MSA	Autauga County	1p0c	8505.72876	2454.91712	10820.15876	5737.47064	4333.81344	0
2	AL	TRUE	Montgomery, AL MSA	Autauga County	1p1c	12067.5024	5081.70788	11588.29388	8058.5564	6217.45866	6147.8208
3	AL	TRUE	Montgomery, AL MSA	Autauga County	1p2c	12067.5024	7460.20308	12361.7772	11581.6326	7075.85818	15824.604
4	AL	TRUE	Montgomery, AL MSA	Autauga County	1p3c	15257.1504	9952.23024	13452.188	14503.7076	9154.1562	18802.1802
5	AL	TRUE	Montgomery, AL MSA	Autauga County	1p4c	15257.1504	12182.214	13744.5884	17825.7856	9642.30366	18802.1802
6	AL	TRUE	Montgomery, AL MSA	Autauga County	2p0c	30180.2942	6334.01436	12861.8888	11474.95068	5883.78524	0
7	AL	TRUE	Montgomery, AL MSA	Autauga County	2p1c	12067.5024	7883.31888	13580.112	14387.0372	7228.56044	6147.8208
8	AL	TRUE	Montgomery, AL MSA	Autauga County	2p2c	12067.5024	9084.05288	14723.6076	17319.1128	7903.1484	15824.604
9	AL	TRUE	Montgomery, AL MSA	Autauga County	2p3c	15257.1504	12180.7704	14004.6	20241.1872	9645.10176	18802.1802
10	AL	TRUE	Montgomery, AL MSA	Autauga County	2p4c	15257.1504	14917.3584	15064.2636	23163.2652	10923.41504	18802.1802
11	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County	1p0c	8016	3714.20484	10731.85256	5503.47084	4467.7518	0
12	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County	1p1c	10064	5473.96836	11522.93844	8464.00688	5882.15828	5062.7142
13	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County	1p2c	10064	8020.27812	12860.3352	11294.53344	6914.98608	15348.1962
14	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County	1p3c	14088	10600.404	13452.9648	14145.0612	6307.55628	18236.04
15	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County	1p4c	14088	13006.704	13773.154	16095.588	10176.22776	18236.04
16	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County	2p0c	8676	8809.54076	12838.26	11180.95068	5611.02168	0
17	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County	2p1c	10064	8475.15888	14214.2784	14037.488	7079.8074	5062.7142
18	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County	2p2c	10064	10723.8066	14768.1084	16888.014	7808.12276	15348.1962
19	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County	2p3c	14088	13104.918	15071.3112	19738.5408	10179.1728	18236.04
20	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County	2p4c	14088	16037.2776	15174.9828	22580.0664	11241.88184	18236.04
21	AL	FALSE	Barbour County, AL	Barbour County	1p0c	5856	3237.03624	10890.72876	5680.79004	3294.7688	0
22	AL	FALSE	Barbour County, AL	Barbour County	1p1c	7776	4770.606	11436.48264	8495.9568	4546.13124	4846.73616
23	AL	FALSE	Barbour County, AL	Barbour County	1p2c	7776	6085.73852	12036.7944	11305.12356	5250.2066	11644.67508
24	AL	FALSE	Barbour County, AL	Barbour County	1p3c	9672	6324.6204	12404.508	14114.2008	6885.23532	13736.3484
25	AL	FALSE	Barbour County, AL	Barbour County	1p4c	9672	11413.9658	12530.8248	16023.4572	7640.27712	13736.3484
26	AL	FALSE	Barbour County, AL	Barbour County	2p0c	5904	5934.57168	12711.8432	11373.58008	4289.58144	0
27	AL	FALSE	Barbour County, AL	Barbour County	2p1c	7776	7388.17208	13271.94	14182.746	5493.85322	4846.73616
28	AL	FALSE	Barbour County, AL	Barbour County	2p2c	7776	9354.42768	13611.864	16091.0136	6207.02928	11644.67508
29	AL	FALSE	Barbour County, AL	Barbour County	2p3c	9672	11421.0462	13720.7796	19801.0812	7642.84272	13736.3484
30	AL	FALSE	Barbour County, AL	Barbour County	2p4c	9672	13076.622	13638.788	22610.2476	8568.82836	13736.3484
31	AL	TRUE	Birmingham-Hoover, AL HUD Metro FVR Area	Bibb County	1p0c	7973.92164	3050.28884	11446.48464	5645.47084	3094.50552	0
32	AL	TRUE	Birmingham-Hoover, AL HUD Metro FVR Area	Bibb County	1p1c	8776.52168	4495.38188	12233.8776	8821.218	5172.38072	5260.56824
33	AL	TRUE	Birmingham-Hoover, AL HUD Metro FVR Area	Bibb County	1p2c	8776.52168	6586.48536	13566.48	11790.9558	5030.05008	13798.2588
34	AL	TRUE	Birmingham-Hoover, AL HUD Metro FVR Area	Bibb County	1p3c	12717.2832	8786.66332	14094.188	14772.6048	7701.72732	16394.4708
35	AL	TRUE	Birmingham-Hoover, AL HUD Metro FVR Area	Bibb County	1p4c	12717.2832	10755.4887	14358.126	17748.432	8505.10322	16394.4708

1	A	B	C	D	E	F	G	H	I	J	K	
1	case_id	state	metro	areaname	county	County	family_member	courthouse	cost food cost	transportation	cost healthcare	cost other
2	1	AL	TRUE	Montgomery, AL MSA	Autauga County	=SUBSTITUTE(F2," County", "")	1p0c	8505.72876	2454.01712	10020.16676	5737.47084	
3	1	AL	TRUE	Montgomery, AL MSA	Autauga County		1p0c	12007.5024	5091.70788	11588.10288	8020.55266	
4	1	AL	TRUE	Montgomery, AL MSA	Autauga County	=SUBSTITUTE(F2," County", "")	1p0c	12007.5024	7080.20308	12361.7772	11581.6326	
5	1	AL	TRUE	Montgomery, AL MSA	Autauga County		1p0c	15257.1504	9952.23626	13052.186	14903.7076	
6	1	AL	TRUE	Montgomery, AL MSA	Autauga County		1p0c	15257.1504	12182.214	12784.5084	17425.7856	
7	1	AL	TRUE	Montgomery, AL MSA	Autauga County		2p0c	10180.2947	6324.01436	12861.8868	11476.95068	
8	1	AL	TRUE	Montgomery, AL MSA	Autauga County		2p0c	12007.5024	7883.31888	13689.112	14397.0372	
9	1	AL	TRUE	Montgomery, AL MSA	Autauga County		2p0c	12007.5024	9988.05268	14723.6076	17319.1128	
10	1	AL	TRUE	Montgomery, AL MSA	Autauga County		2p0c	15257.1504	12188.7708	14994.6	20281.1872	
11	1	AL	TRUE	Montgomery, AL MSA	Autauga County		2p0c	15257.1504	14917.3588	15064.2636	23163.2652	
12	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County		1p0c	8616	3714.26484	10731.65256	5093.47084	
13	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County		1p1c	11064	5473.96836	11522.93844	8484.00688	
14	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County		1a2c	11064	8020.27812	12899.3352	11294.53344	
15	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County		1p0c	14988	10699.404	12452.9648	14145.0612	
16	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County		1p0c	14988	13094.764	13773.254	16995.588	
17	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County		2p0c	8676	6809.54076	12838.26	11186.95068	
18	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County		2p1c	11064	8475.15888	14214.2784	14837.486	
19	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County		2p2c	11064	10733.6066	14768.1084	16888.014	
20	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County		2p3c	14988	13104.918	15071.3112	19728.5408	
21	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County		2p4c	14988	16037.2776	15174.9828	22589.0664	
22	3	AL	FALSE	Barbour County, AL	Barbour County		1p0c	5856	3237.03824	10890.72876	5686.79004	
23	3	AL	FALSE	Barbour County, AL	Barbour County		1p1c	7776	4770.609	11436.48264	8495.9568	
24	3	AL	FALSE	Barbour County, AL	Barbour County		1a2c	7776	6989.73852	12036.7944	11305.12356	
25	3	AL	FALSE	Barbour County, AL	Barbour County		1p0c	9672	9324.6204	12404.508	14114.2808	
26	3	AL	FALSE	Barbour County, AL	Barbour County		1p0c	9672	11413.9658	12520.8248	16923.4572	
27	3	AL	FALSE	Barbour County, AL	Barbour County		2p0c	5904	5934.57168	12711.6432	11273.58038	
28	3	AL	FALSE	Barbour County, AL	Barbour County		2p0c	7776	7386.17208	13271.94	14182.746	
29	3	AL	FALSE	Barbour County, AL	Barbour County		2p2c	7776	9354.42768	13611.864	16991.9136	
30	3	AL	FALSE	Barbour County, AL	Barbour County		2p3c	9672	11421.4602	13720.7796	15803.0812	
31	3	AL	FALSE	Barbour County, AL	Barbour County		2p4c	9672	13976.622	13639.788	22610.2474	
32	4	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Area	Baldwin County		1p0c	7973.92164	2050.28684	11446.48464	5845.47984	
33	4	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Area	Baldwin County	</						

Once the repeated word has been removed, it now displays only the county name.

	A	B	C	D	E	F	G	H	I	J	K
1	case_id	state	county	zip	county	county	family_member	cost_housing	cost_food	cost_transportation	cost_healthcare
2	1	AL	TRUE	Montgomery, AL MSA	Autauga County	Autauga	1p0c	8505.72876	3454.91712	10829.16878	5737.47984
3	1	AL	TRUE	Montgomery, AL MSA	Autauga County	Autauga	1p1c	12067.5024	5001.70788	11588.19288	8650.5364
4	1	AL	TRUE	Montgomery, AL MSA	Autauga County	Autauga	1p2c	12067.5024	7440.20908	12361.7772	11581.6326
5	1	AL	TRUE	Montgomery, AL MSA	Autauga County	Autauga	1p3c	15257.1504	9952.23924	13452.186	14505.7076
6	1	AL	TRUE	Montgomery, AL MSA	Autauga County	Autauga	2p0c	15257.1504	12182.244	13744.5984	17435.7856
7	1	AL	TRUE	Montgomery, AL MSA	Autauga County	Autauga	2p1c	10780.2432	6334.03436	12861.8988	11474.95868
8	1	AL	TRUE	Montgomery, AL MSA	Autauga County	Autauga	2p2c	12067.5024	7983.31888	11589.112	14597.0572
9	1	AL	TRUE	Montgomery, AL MSA	Autauga County	Autauga	2p3c	12067.5024	9084.05268	14723.6076	17519.1128
10	1	AL	TRUE	Montgomery, AL MSA	Autauga County	Autauga	2p4c	15257.1504	12180.7704	14094.6	20041.1872
11	1	AL	TRUE	Montgomery, AL MSA	Autauga County	Autauga	2p4c	15257.1504	14017.3584	15064.2636	23165.2652
12	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County	Baldwin	1p0c	8626	3714.25484	10791.45258	5501.47984
13	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County	Baldwin	1p1c	11064	5478.96836	11532.93844	8444.00688
14	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County	Baldwin	1p2c	11064	8020.27812	12866.3352	11294.53344
15	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County	Baldwin	1p3c	14988	10609.404	13452.9648	14145.0612
16	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County	Baldwin	1p4c	14988	13006.794	11779.354	16095.588
17	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County	Baldwin	2p0c	8626	6809.54076	12838.26	11186.95968
18	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County	Baldwin	2p1c	11064	6475.15888	14214.2784	14037.448
19	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County	Baldwin	2p2c	11064	10793.40664	14768.1084	16888.014
20	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County	Baldwin	2p3c	14988	13104.918	15071.3112	19738.5408
21	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin County	Baldwin	2p4c	14988	14037.2776	15174.9828	22580.0664
22	3	AL	FALSE	Barbour County, AL	Barbour County	Barbour	1p0c	5836	3237.03824	10890.72876	5686.79004
23	3	AL	FALSE	Barbour County, AL	Barbour County	Barbour	1p1c	7776	4770.609	11436.48264	8496.9568
24	3	AL	FALSE	Barbour County, AL	Barbour County	Barbour	1p2c	7776	6888.73852	12036.7944	11305.12156
25	3	AL	FALSE	Barbour County, AL	Barbour County	Barbour	1p3c	9673	9124.6204	12404.508	14114.2968
26	3	AL	FALSE	Barbour County, AL	Barbour County	Barbour	1p4c	9673	11413.9658	12530.8248	16023.4572
27	3	AL	FALSE	Barbour County, AL	Barbour County	Barbour	2p0c	5904	5684.57168	12711.6432	11373.58008
28	3	AL	FALSE	Barbour County, AL	Barbour County	Barbour	2p1c	7776	7386.17708	13271.94	14182.746
29	3	AL	FALSE	Barbour County, AL	Barbour County	Barbour	2p2c	7776	9354.42768	11611.884	16091.9136
30	3	AL	FALSE	Barbour County, AL	Barbour County	Barbour	2p3c	9673	11421.5462	13720.7796	16801.0612
31	3	AL	FALSE	Barbour County, AL	Barbour County	Barbour	2p4c	9673	13876.622	13626.788	22610.2476
32	4	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR AN	Wibb County	Wibb	1p0c	7673.92164	2050.26684	11446.48664	5845.47984
33	4	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR AN	Wibb County	Wibb	1p1c	9776.52168	4495.38168	12233.8776	8021.2136
34	4	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR AN	Wibb County	Wibb	1p2c	9776.52168	6586.48536	12566.48	11706.9558
35	4	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR AN	Wibb County	Wibb	1p3c	12717.2832	8786.66232	14064.588	14772.6848
36	4	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR AN	Wibb County	Wibb	1p4c	12717.2832	10755.4687	14356.126	17748.432
cost of living us											

## Before Column Name: Family Member Count

After Cleaning Column Name: Adult count

## Before:

The "Family Member Count" column contains two types of values: "p" indicates the number of adults, and "c" indicates the number of children.

case_id	state	isMetro	areaname	County	Family_member_count	housing_cost	food_cost	transportation_cost	healthcare_cost	other_necessities_cost	childcare_cost	taxes	total
1	AL	TRUE	Montgomery, AL MSA	Autauga	1p0c	8505.72876	3454.91712	10829.16876	5737.47984	4333.81344	0	6393	39
2	AL	TRUE	Montgomery, AL MSA	Autauga	1p1c	12067.5024	5091.70788	11588.19288	8659.5564	6217.45896	6147.8298	7422	57
3	AL	TRUE	Montgomery, AL MSA	Autauga	1p2c	12067.5024	7480.20308	12361.7772	11581.6326	7075.65816	15824.694	9770	76
4	AL	TRUE	Montgomery, AL MSA	Autauga	1p3c	15257.1504	9952.23024	13452.186	14503.7076	9134.3562	18802.1892	13102	94
5	AL	TRUE	Montgomery, AL MSA	Autauga	1p4c	15257.1504	12182.214	13744.5084	17425.7856	9942.36396	18802.1892	15469	1
6	AL	TRUE	Montgomery, AL MSA	Autauga	2p0c	10180.2942	6334.01436	12861.8868	11474.95968	5983.78524	0	8237	52
7	AL	TRUE	Montgomery, AL MSA	Autauga	2p1c	12067.5024	7883.31888	13589.112	14397.0372	7228.96944	6147.8298	9460	70
8	AL	TRUE	Montgomery, AL MSA	Autauga	2p2c	12067.5024	9984.05268	14723.6076	17319.1128	7990.1484	15824.694	11169	89
9	AL	TRUE	Montgomery, AL MSA	Autauga	2p3c	15257.1504	12189.7704	14994.6	20241.1872	9945.10176	18802.1892	13210	104
10	AL	TRUE	Montgomery, AL MSA	Autauga	2p4c	15257.1504	14917.3584	15064.2636	23163.2652	10933.41504	18802.1892	13417	111
11	AL	TRUE	Montgomery, AL MSA	Autauga	2p5c	8616	3714.29484	10731.65256	5993.47984	4467.7518	0	6456	39
12	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p0c	11064	5473.96836	11522.98844	8444.00688	5992.35828	5962.7142	7097	52
13	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p1c	11064	8020.27812	12869.3352	11294.53344	6914.96608	15348.1992	9478	74
14	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p2c	14988	10699.404	13452.9648	14145.0612	9307.55928	18236.04	12598	93
15	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p3c	14988	13096.794	13773.354	16995.588	10176.22776	18236.04	13434	10
16	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p4c	8676	6809.54076	12838.26	11186.95968	5611.02168	0	7820	52
17	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p0c	11064	8475.15888	14214.2784	14037.486	7079.8074	5962.7142	9341	70
18	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p1c	11064	10733.6066	14768.1084	16888.014	7898.13276	15348.1992	10867	87
19	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p2c	14988	13204.918	15071.5112	19738.5408	10179.1728	18236.04	13173	104
20	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p3c	14988	16037.2776	15174.9828	22589.0664	11241.68184	18236.04	13462	111
21	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p4c	5856	3237.03924	10890.71876	5696.79024	3294.7688	0	5458	3
22	AL	FALSE	Barbour County, AL	Barbour	1p0c	7776	4770.609	11436.48264	8495.9568	4546.13124	4846.73616	5426	47
23	AL	FALSE	Barbour County, AL	Barbour	1p1c	7776	6989.73852	12036.7944	11305.12556	5350.2096	11644.67508	6235	61
24	AL	FALSE	Barbour County, AL	Barbour	1p2c	9672	9324.6204	12404.508	14114.2908	6883.22532	13736.3484	7543	7
25	AL	FALSE	Barbour County, AL	Barbour	1p3c	9672	11413.9658	12530.8248	16923.4572	7640.27712	13736.3484	7204	79
26	AL	FALSE	Barbour County, AL	Barbour	1p4c	5904	5934.57168	12711.6432	11373.58008	4289.58144	0	6632	4
27	AL	FALSE	Barbour County, AL	Barbour	2p0c	7776	7386.17208	13271.94	14182.746	5403.85332	4846.73616	7886	60
28	AL	FALSE	Barbour County, AL	Barbour	2p1c	7776	9354.42768	13011.864	16993.9136	6207.02928	11644.67508	8052	73
29	AL	FALSE	Barbour County, AL	Barbour	2p2c	9672	11421.0462	13720.7796	19801.0812	7642.84272	13736.3484	8714	84
30	AL	FALSE	Barbour County, AL	Barbour	2p3c	9672	13976.622	13639.788	22610.2476	8568.82896	13736.3484	8254	90
31	AL	FALSE	Barbour County, AL	Barbour	2p4c	7973.92164	3050.28684	11446.48464	5845.47984	3994.56552	0	6261	1
32	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Arc	Baldwin	1p0c	9779.52168	4495.38168	12233.8776	8823.218	5172.36072	5360.56824	6450	52
33	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Arc	Baldwin	1p1c	9779.52168	6586.48536	13596.48	11796.9558	5930.05008	13798.2588	8121	69
34	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Arc	Baldwin	1p2c	12717.2832	8786.66232	14094.588	14772.6948	7791.72732	16394.4708	10570	8
35	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Arc	Baldwin	1p3c	12717.2832	10755.4687	14338.126	17748.432	8505.10332	16394.4708	10692	9
36	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Arc	Baldwin	1p4c								

For analysis purposes, we need to separate this value into Adult\_count and Child\_count.

- Number of adult(Adult\_count):

=VALUE(MID(F2,1,FIND("p",F2)-1))													
case_id	state	isMetro	areaname	County	Family_member_count	Adult_count	Child_count	housing_cost	food_cost	transportation_cost	healthcare_cost	other_necessities_cost	childcare_cost
1	AL	TRUE	Montgomery, AL MSA	Autauga	1p0c			8505.72876	3454.91712	10829.16876	5737.47984	4333.81344	0
2	AL	TRUE	Montgomery, AL MSA	Autauga	1p1c			12067.5024	5091.70788	11588.19288	8659.5564	6217.45896	6147.8298
3	AL	TRUE	Montgomery, AL MSA	Autauga	1p2c			12067.5024	7480.20308	12361.7772	11581.6326	7075.65816	15824.694
4	AL	TRUE	Montgomery, AL MSA	Autauga	1p3c			15257.1504	9952.23024	13452.186	14503.7076	9134.3562	18802.1892
5	AL	TRUE	Montgomery, AL MSA	Autauga	1p4c			15257.1504	12182.214	13744.5084	17425.7856	9942.36396	18802.1892
6	AL	TRUE	Montgomery, AL MSA	Autauga	2p0c			10180.2942	6334.01436	12861.8868	11474.95968	5983.78524	0
7	AL	TRUE	Montgomery, AL MSA	Autauga	2p1c			12067.5024	7883.31888	13589.112	14397.0372	7228.96944	6147.8298
8	AL	TRUE	Montgomery, AL MSA	Autauga	2p2c			12067.5024	9984.05268	14723.6076	17319.1128	7990.1484	15824.694
9	AL	TRUE	Montgomery, AL MSA	Autauga	2p3c			15257.1504	12189.7704	14994.6	20241.1872	9945.10176	18802.1892
10	AL	TRUE	Montgomery, AL MSA	Autauga	2p4c			15257.1504	14917.3584	15064.2636	23163.2652	10933.41504	18802.1892
11	AL	TRUE	Montgomery, AL MSA	Autauga	2p5c			8616	3714.29484	10731.65256	5993.47984	4467.7518	0
12	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p0c			11064	5473.96836	11522.98844	8444.00688	5992.35828	5962.7142
13	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p1c			11064	8020.27812	12869.3352	11294.53344	6914.96608	15348.1992
14	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p2c			14988	10699.404	13452.9648	14145.0612	9307.55928	18236.04
15	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p3c			14988	13096.794	13773.354	16995.588	10176.22776	18236.04
16	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p4c			8676	6809.54076	12838.26	11186.95968	5611.02168	0
17	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p0c			11064	8475.15888	14214.2784	14037.486	7079.8074	5962.7142
18	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p1c			11064	10733.6066	14768.1084	16888.014	7898.13276	15348.1992
19	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p2c			14988	13204.918	15071.5112	19738.5408	10179.1728	18236.04
20	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p3c			14988	16037.2776	15174.9828	22589.0664	11241.68184	18236.04
21	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p4c			5856	3237.03924	10890.71876	5696.79024	3294.7688	0
22	AL	FALSE	Barbour County, AL	Barbour	1p0c			7776	4770.609	11436.48264	8495.9568	4546.13124	4846.73616
23	AL	FALSE	Barbour County, AL	Barbour	1p1c			7776	6989.73852	12036.7944	11305.12556	5350.2096	11644.67508
24	AL	FALSE	Barbour County, AL	Barbour	1p2c			9672	9324.6204	12404.508	14114.2908	6883.22532	13736.3484
25	AL	FALSE	Barbour County, AL	Barbour	1p3c			9672	11413.9658	12530.8248	16923.4572	7640.27712	13736.3484
26	AL	FALSE	Barbour County, AL	Barbour	1p4c			5904	5934.57168	12711.6432	11373.58008	4289.58144	0
27	AL	FALSE	Barbour County, AL	Barbour	2p0c			7776	7386.17208	13271.94	14182.746	5403.85332	4846.73616
28	AL	FALSE	Barbour County, AL	Barbour	2p1c			7776	9354.42768	13011.864	16993.9136	6207.02928	11644.67508
29	AL	FALSE	Barbour County, AL	Barbour	2p2c			9672	11421.0462	13720.7796	19801.0812	7642.84272	13736.3484
30	AL	FALSE	Barbour County, AL	Barbour	2p3c			9672	13976.622	13639.788	22610.2476	8568.82896	13736.3484
31	AL	FALSE	Barbour County, AL	Barbour	2p4c			7973.92164	3050.28684	11446.48464	5845.47984	3994.56552	0
32	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Arc	Baldwin	1p0c			9779.52168	4495.38168	12233.8776	8823.218	5172.36072	5360.56824
33	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Arc	Baldwin	1p1c			9779.52168	6586.48536	13596.48	11796.9558	5930.05008	13798.2588
34	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Arc	Baldwin	1p2c			12717.2832	8786.66232	14094.588	14772.6948	7791.72732	16394.4708
35	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Arc	Baldwin	1p3c			12717.2832	10755.4687	14338.126	17748.432	8505.10332	16394.4708
36	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Arc	Baldwin	1p4c								

- FIND("p", F2): This part finds where the letter "p" is in the text of cell F2.
- MID(F2, 1, FIND("p", F2) - 1):\*\* This extracts the part of the text in F2 before the "p."
- VALUE(...): Tries to turn the extracted text into a number. If the text has numbers, it turns them into a numeric format.



- IFERROR(..., ""): Checks for errors. If there is an error (like if there are no numbers before the "p"), it shows an empty space instead of an error.

So, basically, this whole thing takes the numbers from the beginning of the text in F2 until it hits the "p." If there's an issue (no numbers before "p"), it just gives an empty space.

**After:**

Now, the "Adult\_count" column contains the numeric value before the letter "p" from the original text.

case_id	state	metro	arsaname	County	Family_member_count	Adult_count	Child_count	housing_cost	food_cost	transportation_cost	healthcare_cost
1	AL	TRUE	Montgomery, AL MSA	Autauga	2p0c	2	0	8505.72876	3454.91712	10829.18876	5737.47064
2	AL	TRUE	Montgomery, AL MSA	Autauga	2p2c	2	2	12067.5034	5091.70788	11588.19288	8659.5564
3	AL	TRUE	Montgomery, AL MSA	Autauga	2p2c	2	2	12067.5034	7460.10308	12361.7772	11581.6320
4	AL	TRUE	Montgomery, AL MSA	Autauga	2p3c	2	3	15257.3504	8952.23024	13452.386	14503.7076
5	AL	TRUE	Montgomery, AL MSA	Autauga	2p4c	2	4	15257.3504	12182.214	13744.5984	17425.7856
6	AL	TRUE	Montgomery, AL MSA	Autauga	2p0c	2	0	10180.2942	6334.01436	12861.8868	11474.95068
7	AL	TRUE	Montgomery, AL MSA	Autauga	2p1c	2	1	12067.5034	7893.31898	13589.112	14397.0372
8	AL	TRUE	Montgomery, AL MSA	Autauga	2p2c	2	2	12067.5034	9984.05268	14723.6076	17319.1128
9	AL	TRUE	Montgomery, AL MSA	Autauga	2p3c	2	3	15257.3504	12189.7704	14994.6	20241.1872
10	AL	TRUE	Montgomery, AL MSA	Autauga	2p4c	2	4	15257.3504	14917.3584	15064.2636	23163.2652
11	AL	TRUE	Montgomery, AL MSA	Autauga	2p0c	2	0	8616	3714.20484	10731.05256	5593.47084
12	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p1c	2	1	13064	5473.06836	11522.93844	8444.00688
13	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p2c	2	2	13064	8020.27812	12869.3352	11294.53344
14	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p3c	2	3	14088	10699.404	13452.9648	14145.0612
15	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p4c	2	4	14088	13096.704	13773.254	16995.588
16	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p0c	2	0	8676	6809.54076	12838.26	11186.95068
17	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p1c	2	1	13064	8675.15888	14214.2784	14027.486
18	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p2c	2	2	13064	10723.6066	14768.1084	16888.014
19	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p3c	2	3	14088	13104.918	15071.212	19738.5408
20	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p4c	2	4	14088	16037.2776	15174.9828	22589.0664
21	AL	FALSE	Barbour County, AL	Barbour	2p0c	2	0	1856	3237.03624	10890.72876	5685.79004
22	AL	FALSE	Barbour County, AL	Barbour	2p1c	2	1	7776	6770.609	11436.48264	8495.9568
23	AL	FALSE	Barbour County, AL	Barbour	2p2c	2	2	7776	6089.73852	12036.7944	11305.12256
24	AL	FALSE	Barbour County, AL	Barbour	2p3c	2	3	9672	9328.6204	12404.508	14114.2008
25	AL	FALSE	Barbour County, AL	Barbour	2p4c	2	4	9672	11413.0658	12520.8248	16023.4572
26	AL	FALSE	Barbour County, AL	Barbour	2p0c	2	0	1904	5034.57168	12711.6432	11373.58908
27	AL	FALSE	Barbour County, AL	Barbour	2p1c	2	1	7776	7286.17208	13271.84	14182.746
28	AL	FALSE	Barbour County, AL	Barbour	2p2c	2	2	7776	9254.42768	13611.864	16991.0120
29	AL	FALSE	Barbour County, AL	Barbour	2p3c	2	3	9672	11421.0462	13720.7796	19801.0812
30	AL	FALSE	Barbour County, AL	Barbour	2p4c	2	4	9672	13976.622	13636.788	22610.2476
31	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Are S&B	Jefferson	2p0c	2	0	7973.97164	3950.28684	11446.48464	5845.47064
32	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Are S&B	Jefferson	2p1c	2	1	6779.52168	4495.38168	12223.8776	8821.218
33	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Are S&B	Jefferson	2p2c	2	2	6779.52168	6586.48536	12566.48	11796.9558
34	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Are S&B	Jefferson	2p3c	2	3	12717.2832	8786.66232	14094.588	14772.6948
35	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Are S&B	Jefferson	2p4c	2	4	12717.2832	10705.4687	14358.126	17798.432

- Number of Childs(Child\_count):  
Before Column Name: Family Member Count  
After Cleaning Column Name: Child\_count

**Before:**

A	B	C	D	E	F	G	H	I	J	K	L
case_id	state	isMetro	areaname	County	Family_member_count	Adult_count	Child_count	housing_cost	food_cost	transportation_co	healthcare_co
1	AL	TRUE	Montgomery, AL MSA	Autauga	1p0c	1		8505.72876	3454.91712	10829.16876	5737.47984
2	AL	TRUE	Montgomery, AL MSA	Autauga	1p1c	1		12067.5024	5091.70788	13588.19288	8659.5554
3	AL	TRUE	Montgomery, AL MSA	Autauga	1p2c	1		12067.5024	7460.20308	13361.7772	11581.6306
4	AL	TRUE	Montgomery, AL MSA	Autauga	1p3c	1		15257.1504	9952.23924	13452.186	14503.7076
5	AL	TRUE	Montgomery, AL MSA	Autauga	1p4c	1		15257.1504	12182.214	13744.5984	17425.7856
6	AL	TRUE	Montgomery, AL MSA	Autauga	1p0c	2		10180.2942	6334.01436	12861.8846	11474.95668
7	AL	TRUE	Montgomery, AL MSA	Autauga	1p1c	2		12067.5024	7883.31888	13589.112	14397.0372
8	AL	TRUE	Montgomery, AL MSA	Autauga	1p2c	2		12067.5024	9884.05268	14723.6076	17919.1138
9	AL	TRUE	Montgomery, AL MSA	Autauga	1p3c	2		15257.1504	12189.7704	14994.6	20241.1872
10	AL	TRUE	Montgomery, AL MSA	Autauga	1p4c	2		15257.1504	14917.3584	15064.2636	23163.2052
11	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p0c	1		8616	3714.29484	10731.65256	5593.47984
12	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p1c	1		11064	5473.96836	11522.93844	8444.00888
13	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p2c	1		11064	8020.27812	12869.3352	11294.53344
14	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p3c	1		14988	10699.404	13452.9648	14145.0612
15	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p4c	1		14988	13096.794	13773.254	16995.588
16	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p0c	2		8676	6809.54076	12838.26	11186.95668
17	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p1c	2		11064	8475.15888	14214.2784	14037.486
18	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p2c	2		11064	10733.6006	14768.1084	16888.014
19	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p3c	2		14988	13104.918	15071.3112	19738.5408
20	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p4c	2		14988	16037.2776	15174.9828	22589.0664
21	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p0c	3		5856	3237.03924	10890.72876	5686.79004
22	AL	FALSE	Barbour County, AL	Barbour	1p0c	1		7776	4775.609	11436.46264	8495.95568
23	AL	FALSE	Barbour County, AL	Barbour	1p1c	1		7776	6889.73852	12036.7944	11305.12556
24	AL	FALSE	Barbour County, AL	Barbour	1p2c	1		9672	9324.6204	12404.508	14114.2908
25	AL	FALSE	Barbour County, AL	Barbour	1p3c	1		9672	11413.0658	12530.8248	16923.4572
26	AL	FALSE	Barbour County, AL	Barbour	1p4c	1		5904	5934.57168	12711.6432	11373.58008
27	AL	FALSE	Barbour County, AL	Barbour	1p0c	2		7776	7386.17208	13271.94	14182.746
28	AL	FALSE	Barbour County, AL	Barbour	1p1c	2		7776	9254.42768	13611.864	16992.9136
29	AL	FALSE	Barbour County, AL	Barbour	1p2c	2		9672	11421.0462	13720.7796	19803.0812
30	AL	FALSE	Barbour County, AL	Barbour	1p3c	2		9672	13976.622	13629.788	22620.2476
31	AL	FALSE	Barbour County, AL	Barbour	1p4c	2		7973.92164	3250.28984	11446.48464	5845.47984
32	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Are	Bibb	1p0c	1		8776.52168	4495.38108	12233.8776	8821.218
33	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Are	Bibb	1p1c	1		8776.52168	6586.48036	13506.48	11796.9558
34	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Are	Bibb	1p2c	1		12717.2832	8786.60232	14094.588	14772.0948
35	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Are	Bibb	1p3c	1		12717.2832	10755.4687	14258.126	17748.432

After:

The number of children has been separated from the "Family\_member\_count" column and placed in a new column called "Child\_count."

A	B	C	D	E	F	G	H	I	J	K	L
case_id	state	isMetro	areaname	County	Family_member_count	Adult_count	Child_count	housing_cost	food_cost	transportation_co	healthcare_co
1	AL	TRUE	Montgomery, AL MSA	Autauga	1p0c	1		8505.72876	3454.91712	10829.16876	5737.47984
2	AL	TRUE	Montgomery, AL MSA	Autauga	1p1c	1		12067.5024	5091.70788	13588.19288	8659.5554
3	AL	TRUE	Montgomery, AL MSA	Autauga	1p2c	1		12067.5024	7460.20308	13361.7772	11581.6306
4	AL	TRUE	Montgomery, AL MSA	Autauga	1p3c	1		15257.1504	9952.23924	13452.186	14503.7076
5	AL	TRUE	Montgomery, AL MSA	Autauga	1p4c	1		15257.1504	12182.214	13744.5984	17425.7856
6	AL	TRUE	Montgomery, AL MSA	Autauga	1p0c	2		10180.2942	6334.01436	12861.8846	11474.95668
7	AL	TRUE	Montgomery, AL MSA	Autauga	1p1c	2		12067.5024	7883.31888	13589.112	14397.0372
8	AL	TRUE	Montgomery, AL MSA	Autauga	1p2c	2		12067.5024	9884.05268	14723.6076	17919.1138
9	AL	TRUE	Montgomery, AL MSA	Autauga	1p3c	2		15257.1504	12189.7704	14994.6	20241.1872
10	AL	TRUE	Montgomery, AL MSA	Autauga	1p4c	2		15257.1504	14917.3584	15064.2636	23163.2052
11	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p0c	1		8616	3714.29484	10731.65256	5593.47984
12	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p1c	1		11064	5473.96836	11522.93844	8444.00888
13	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p2c	1		11064	8020.27812	12869.3352	11294.53344
14	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p3c	1		14988	10699.404	13452.9648	14145.0612
15	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p4c	1		14988	13096.794	13773.254	16995.588
16	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p0c	2		8676	6809.54076	12838.26	11186.95668
17	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p1c	2		11064	8475.15888	14214.2784	14037.486
18	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p2c	2		11064	10733.6006	14768.1084	16888.014
19	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p3c	2		14988	13104.918	15071.3112	19738.5408
20	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p4c	2		14988	16037.2776	15174.9828	22589.0664
21	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p0c	3		5856	3237.03924	10890.72876	5686.79004
22	AL	FALSE	Barbour County, AL	Barbour	1p0c	1		7776	4775.609	11436.46264	8495.95568
23	AL	FALSE	Barbour County, AL	Barbour	1p1c	1		7776	6889.73852	12036.7944	11305.12556
24	AL	FALSE	Barbour County, AL	Barbour	1p2c	1		9672	9324.6204	12404.508	14114.2908
25	AL	FALSE	Barbour County, AL	Barbour	1p3c	1		9672	11413.0658	12530.8248	16923.4572
26	AL	FALSE	Barbour County, AL	Barbour	1p4c	1		5904	5934.57168	12711.6432	11373.58008
27	AL	FALSE	Barbour County, AL	Barbour	1p0c	2		7776	7386.17208	13271.94	14182.746
28	AL	FALSE	Barbour County, AL	Barbour	1p1c	2		7776	9254.42768	13611.864	16992.9136
29	AL	FALSE	Barbour County, AL	Barbour	1p2c	2		9672	11421.0462	13720.7796	19803.0812
30	AL	FALSE	Barbour County, AL	Barbour	1p3c	2		9672	13976.622	13629.788	22620.2476
31	AL	FALSE	Barbour County, AL	Barbour	1p4c	2		7973.92164	3250.28984	11446.48464	5845.47984
32	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Are	Bibb	1p0c	1		8776.52168	4495.38108	12233.8776	8821.218
33	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Are	Bibb	1p1c	1		8776.52168	6586.48036	13506.48	11796.9558
34	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Are	Bibb	1p2c	1		12717.2832	8786.60232	14094.588	14772.0948
35	AL	TRUE	Birmingham-Hoover, AL HUD Metro FMR Are	Bibb	1p3c	1		12717.2832	10755.4687	14258.126	17748.432

- FIND("p", F2): Finds where the letter "p" is in the text of cell F2.
- FIND("c", F2): Finds where the letter "c" is in the text of cell F2.
- FIND("p", F2) + 1: Adjusts the starting position for the MID function to begin one character after "p."

- FIND("c", F2) - FIND("p", F2) - 1: Calculates the length of the substring to be extracted by measuring the distance between "p" and "c" and subtracting 1 to exclude "p."
- MID(F2, FIND("p", F2) + 1, FIND("c", F2) - FIND("p", F2) - 1): Extracts the characters between "p" and "c" in the text in cell F2.
- VALUE(...): Tries to turn the extracted text into a number. If there are numbers, it converts them into a numeric format.
- IFERROR(..., ""): Checks for errors. If there's an error (like if there are no numbers between "p" and "c"), it shows an empty space instead of an error.

This formula gets the numbers between "p" and "c" in the text of cell F2. If there's an issue (no numbers between "p" and "c"), it just gives an empty space.

case_id	state	isMetro	areaname	County	Family_member_count	Adult_count	Child_count	housing_cost	food_cost	transportation_cost	healthcare_cost
1	Al	TRUE	Montgomery, AL MSA	Autauga	1p2c	1	1	8520.72870	5454.61713	10820.16876	5737.47986
2	Al	TRUE	Montgomery, AL MSA	Autauga	1p1c	1	1	13067.5034	5091.70788	11548.39288	8058.5556
3	Al	TRUE	Montgomery, AL MSA	Autauga	1p2c	1	1	13067.5034	5460.20308	13261.7773	11581.6326
4	Al	TRUE	Montgomery, AL MSA	Autauga	1p2c	1	1	15257.1504	8952.33024	13453.186	14523.7076
5	Al	TRUE	Montgomery, AL MSA	Autauga	1p4c	1	1	15257.1504	12182.214	13744.5984	17425.7056
6	Al	TRUE	Montgomery, AL MSA	Autauga	2p2c	2	2	10180.2943	6326.01436	12861.8868	11476.95968
7	Al	TRUE	Montgomery, AL MSA	Autauga	2p1c	2	1	13067.5034	7983.31888	12580.113	14397.0372
8	Al	TRUE	Montgomery, AL MSA	Autauga	2p2c	2	2	13067.5034	9684.05266	14733.0076	17319.1128
9	Al	TRUE	Montgomery, AL MSA	Autauga	2p3c	2	2	15257.1504	12189.7704	14994.6	20341.1872
10	Al	TRUE	Montgomery, AL MSA	Autauga	2p4c	2	2	15257.1504	14917.3584	15064.2636	22163.2652
11	Al	TRUE	Montgomery, AL MSA	Autauga	1p2c	1	1	8636	3714.29484	10731.85756	5593.47984
12	Al	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p1c	1	1	11064	5473.86836	11522.93844	8464.00688
13	Al	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p2c	1	1	11064	8020.37812	12660.3352	11794.53344
14	Al	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p3c	1	1	14888	10695.404	13452.9648	14145.0612
15	Al	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p4c	1	1	14888	12096.794	13775.354	16995.588
16	Al	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p2c	2	2	8676	6809.54076	12636.76	11186.95968
17	Al	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p1c	2	1	11064	8475.15888	14214.3784	14027.486
18	Al	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p2c	2	2	11064	10723.6266	14786.3084	16898.014
19	Al	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p3c	2	2	14888	13104.916	15071.8112	19738.5408
20	Al	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p4c	2	2	14888	14027.2776	15174.8838	22589.0664
21	Al	FALSE	Barbour County, AL	Barbour	1p2c	1	1	5856	3227.03924	10890.73876	5686.79504
22	Al	FALSE	Barbour County, AL	Barbour	1p1c	1	1	7776	4770.600	11436.48264	8495.9568
23	Al	FALSE	Barbour County, AL	Barbour	1p2c	1	1	7776	6689.73852	12036.7944	11205.12356
24	Al	FALSE	Barbour County, AL	Barbour	1p3c	1	1	9672	9224.6304	12494.528	14114.2908
25	Al	FALSE	Barbour County, AL	Barbour	1p4c	1	1	9672	11413.9658	12530.8248	16923.4572
26	Al	FALSE	Barbour County, AL	Barbour	2p2c	2	2	5904	5424.57168	12711.6432	11273.58008
27	Al	FALSE	Barbour County, AL	Barbour	2p1c	2	1	7776	7386.17208	13271.94	14182.746
28	Al	FALSE	Barbour County, AL	Barbour	2p2c	2	2	7776	9054.43768	13611.864	16991.9136
29	Al	FALSE	Barbour County, AL	Barbour	2p3c	2	2	9672	11421.0462	13720.7796	19801.0812
30	Al	FALSE	Barbour County, AL	Barbour	2p4c	2	2	9672	13976.632	13626.798	22610.2476
31	Al	TRUE	Birmingham-Hoover, AL HUD Metro FMR Are Bbb	Jefferson	1p2c	1	1	7873.92164	3050.38684	11446.4844	5805.47984
32	Al	TRUE	Birmingham-Hoover, AL HUD Metro FMR Are Bbb	Jefferson	1p1c	1	1	9776.52168	4495.38168	12233.8776	6821.216
33	Al	TRUE	Birmingham-Hoover, AL HUD Metro FMR Are Bbb	Jefferson	1p2c	1	1	9776.52168	6586.48536	12566.48	11796.9558
34	Al	TRUE	Birmingham-Hoover, AL HUD Metro FMR Are Bbb	Jefferson	1p3c	1	1	12717.2832	8786.64232	14094.588	14772.6948
35	Al	TRUE	Birmingham-Hoover, AL HUD Metro FMR Are Bbb	Jefferson	1p4c	1	1	12717.2832	10755.4687	14258.126	17748.432

### 3.3. Creating Additional Columns Based on Existing Data

Column Name: Total\_member

Before:



	A	B	C	D	E	F	G	H	I	J	K	L	M	
1	case_id	state	isMetro	arsaname	County	Family_member_count	Adult_count	Child_count	Total_member	housing_cost	food_cost	transportation_cost	healthcare_cost	other_needs
2	1	AL	TRUE	Montgomery, AL MSA	Autauga	1p0c	1	1		8505.72876	3454.93732	10830.58876	5737.47984	
3	1	AL	TRUE	Montgomery, AL MSA	Autauga	1p1c	1	1		12067.5024	5001.70788	11588.92888	8650.5564	
4	1	AL	TRUE	Montgomery, AL MSA	Autauga	1p2c	1	1		12067.5024	7460.20308	12361.7772	11581.6326	
5	1	AL	TRUE	Montgomery, AL MSA	Autauga	1p3c	1	1		15257.1504	6652.23024	13452.186	14503.7076	
6	1	AL	TRUE	Montgomery, AL MSA	Autauga	1p4c	1	1		15257.1504	12182.214	12744.5884	17425.7856	
7	1	AL	TRUE	Montgomery, AL MSA	Autauga	2p0c	2	0		10180.2942	6334.01436	12861.8868	11474.95068	
8	1	AL	TRUE	Montgomery, AL MSA	Autauga	2p1c	2	1		12067.5024	7883.11888	12580.112	14307.0372	
9	1	AL	TRUE	Montgomery, AL MSA	Autauga	2p2c	2	2		12067.5024	9884.05268	14723.6076	17310.1128	
10	1	AL	TRUE	Montgomery, AL MSA	Autauga	2p3c	2	2		15257.1504	12180.7704	14004.8	20241.1872	
11	1	AL	TRUE	Montgomery, AL MSA	Autauga	2p4c	2	4		15257.1504	14017.3584	15064.2636	23163.2652	
12	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p0c	1	1		8616	3714.29484	10731.05256	5503.47984	
13	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p1c	1	1		12064	5473.96836	11522.93844	8444.00688	
14	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p2c	1	1		12064	8020.27812	12860.2352	11204.52444	
15	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p3c	1	1		14988	10690.404	13452.9648	14145.0612	
16	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p4c	1	1		14988	12096.794	13772.354	16095.588	
17	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p0c	2	0		8676	6800.54076	12838.26	11186.95068	
18	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p1c	2	1		12064	8475.15888	14214.2784	14037.488	
19	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p2c	2	2		12064	10732.6066	14766.5084	16888.034	
20	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p3c	2	2		14988	13104.918	15071.3112	19738.5406	
21	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p4c	2	4		14988	16037.2776	15174.8828	22580.0664	
22	3	AL	FALSE	Barbour County, AL	Barbour	1p0c	1	1		5856	3237.03024	10860.72876	5686.79004	
23	3	AL	FALSE	Barbour County, AL	Barbour	1p1c	1	1		7776	4770.600	11436.48264	8405.9568	
24	3	AL	FALSE	Barbour County, AL	Barbour	1p2c	1	1		7776	6080.73852	12036.7944	11305.12356	
25	3	AL	FALSE	Barbour County, AL	Barbour	1p3c	1	1		9672	9324.6204	12404.508	14114.2908	
26	3	AL	FALSE	Barbour County, AL	Barbour	1p4c	1	1		9672	11413.9658	12530.8248	16023.4572	
27	3	AL	FALSE	Barbour County, AL	Barbour	2p0c	2	0		5904	5034.57168	12711.6432	11375.58008	
28	3	AL	FALSE	Barbour County, AL	Barbour	2p1c	2	1		7776	7386.17208	12271.94	14182.746	
29	3	AL	FALSE	Barbour County, AL	Barbour	2p2c	2	2		7776	9354.42768	13611.864	16691.9126	
30	3	AL	FALSE	Barbour County, AL	Barbour	2p3c	2	2		9672	11421.0462	13720.7796	19801.0812	
31	3	AL	FALSE	Barbour County, AL	Barbour	2p4c	2	4		9672	13076.632	13630.788	22610.2476	
32	4	AL	TRUE	Birmingham-Hoover, AL HUD Metr Bbb		1p0c	1	1		7973.92164	3050.28664	11446.48464	5845.47984	
33	4	AL	TRUE	Birmingham-Hoover, AL HUD Metr Bbb		1p1c	1	1		9779.52168	4495.36368	12233.8776	8821.218	
34	4	AL	TRUE	Birmingham-Hoover, AL HUD Metr Bbb		1p2c	1	1		9779.52168	6586.48536	12566.48	11706.9556	
35	4	AL	TRUE	Birmingham-Hoover, AL HUD Metr Bbb		1p3c	1	1		12717.2832	8786.66232	14004.588	14772.0948	
36	4	AL	TRUE	Birmingham-Hoover, AL HUD Metr Bbb		1p4c	1	1		12717.2832	10755.4687	14258.126	17748.422	
cost of living vs														

	A	B	C	D	E	F	G	H	I	J	K	L	M	
1	case_id	state	isMetro	arsaname	County	Family_member_count	Adult_count	Child_count	Total_member	housing_cost	food_cost	transportation_cost	healthcare_cost	other_needs
2	1	AL	TRUE	Montgomery, AL MSA	Autauga	1p0c	1	1	=SUM(G1+H1)	8505.72876	3454.93732	10830.58876	5737.47984	
3	1	AL	TRUE	Montgomery, AL MSA	Autauga	1p1c	1	1	2	12067.5024	5001.70788	11588.92288	8650.5564	
4	1	AL	TRUE	Montgomery, AL MSA	Autauga	1p2c	1	1	2	12067.5024	7460.20308	12361.7772	11581.6326	
5	1	AL	TRUE	Montgomery, AL MSA	Autauga	1p3c	1	1	2	15257.1504	6652.23024	13452.186	14503.7076	
6	1	AL	TRUE	Montgomery, AL MSA	Autauga	1p4c	1	1	2	15257.1504	12182.214	13744.5884	17425.7856	
7	1	AL	TRUE	Montgomery, AL MSA	Autauga	2p0c	2	0	2	10180.2942	6334.01436	12861.8868	11474.95068	
8	1	AL	TRUE	Montgomery, AL MSA	Autauga	2p1c	2	1	3	12067.5024	7883.11888	12580.112	14307.0372	
9	1	AL	TRUE	Montgomery, AL MSA	Autauga	2p2c	2	2	4	12067.5024	9884.05268	14723.6076	17310.1128	
10	1	AL	TRUE	Montgomery, AL MSA	Autauga	2p3c	2	2	4	15257.1504	12180.7704	14004.8	20241.1872	
11	1	AL	TRUE	Montgomery, AL MSA	Autauga	2p4c	2	4	6	15257.1504	14017.3584	15064.2636	23163.2652	
12	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p0c	1	1	2	8616	3714.29484	10731.05256	5503.47984	
13	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p1c	1	1	2	12064	5473.96836	11522.93844	8444.00688	
14	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p2c	1	1	2	12064	8020.27812	12860.2352	11204.52444	
15	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p3c	1	1	2	14988	10690.404	13452.9648	14145.0612	
16	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	1p4c	1	1	2	14988	12096.794	13772.354	16095.588	
17	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p0c	2	0	2	8676	6800.54076	12838.26	11186.95068	
18	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p1c	2	1	3	12064	8475.15888	14214.2784	14037.488	
19	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p2c	2	2	4	12064	10732.6066	14766.5084	16888.034	
20	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p3c	2	2	4	14988	13104.918	15071.3112	19738.5406	
21	2	AL	TRUE	Daphne-Fairhope-Foley, AL MSA	Baldwin	2p4c	2	4	6	14988	16037.2776	15174.8828	22580.0664	
22	3	AL	FALSE	Barbour County, AL	Barbour	1p0c	1	1	2	5856	3237.03024	10860.72876	5686.79004	
23	3	AL	FALSE	Barbour County, AL	Barbour	1p1c	1	1	2	7776	4770.600	11436.48264	8405.9568	
24	3	AL	FALSE	Barbour County, AL	Barbour	1p2c	1	1	2	7776	6080.73852	12036.7944	11305.12356	
25	3	AL	FALSE	Barbour County, AL	Barbour	1p3c	1	1	2	9672	9324.6204	12404.508	14114.2908	
26	3	AL	FALSE	Barbour County, AL	Barbour	1p4c	1	1	2	9672	11413.9658	12530.8248	16023.4572	
27	3	AL	FALSE	Barbour County, AL	Barbour	2p0c	2	0	2	5904	5034.57168	12711.6432	11375.58008	
28	3	AL	FALSE	Barbour County, AL	Barbour	2p1c	2	1	3	7776	7386.17208	12271.94	14182.746	
29	3	AL	FALSE	Barbour County, AL	Barbour	2p2c	2	2	4	7776	9354.42768	13611.864	16691.9126	
30	3	AL	FALSE	Barbour County, AL	Barbour	2p3c	2	2	4	9672	11421.0462	13720.7796	19801.0812	
31	3	AL	FALSE	Barbour County, AL	Barbour	2p4c	2	4	6	9672	13076.632	13630.788	22610.2476	
32	4	AL	TRUE	Birmingham-Hoover, AL HUD Metr Bbb		1p0c	1	1	2	7973.92164	3050.28664	11446.48464	5845.47984	
33	4	AL	TRUE	Birmingham-Hoover, AL HUD Metr Bbb		1p1c	1	1	2	9779.52168	4495.36368	12233.8776	8821.218	
34	4	AL	TRUE	Birmingham-Hoover, AL HUD Metr Bbb		1p2c	1	1	2	9779.52168	6586.48536	12566.48	11706.9556	
35	4	AL	TRUE	Birmingham-Hoover, AL HUD Metr Bbb		1p3c	1	1	2	12717.2832	8786.66232	14004.588	14772.0948	
36	4	AL	TRUE	Birmingham-Hoover, AL HUD Metr Bbb		1p4c	1	1	2	12717.2832	10755.4687	14258.126	17748.432	

Creating a new column titled "Total\_member" by summing the counts from "Adult\_count" and "Child\_count" to represent the total number of members in a family.

- Using the SUM() function to calculate the total number of family members by adding the counts from both "Adult\_count" and "Child\_count."

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Case_id	State	IsMetro	Arenaname	County	Family_member_count	Adult_count	Child_count	Total_member	housing_cost	food_cost	transportation_cost	healthcare_cost	other_cost
2	1	AL	TRUE	Montgomery, AL MSA	Autauga	1p0c	1	0	1	8525.72875	3454.31712	10825.0875	5727.47964	
3	1	AL	TRUE	Montgomery, AL MSA	Autauga	1p1c	1	1	2	12067.5034	5091.70788	12588.22288	8050.5564	
4	1	AL	TRUE	Montgomery, AL MSA	Autauga	1p2c	1	2	3	12067.5034	7460.20308	12161.7772	11581.6326	
5	1	AL	TRUE	Montgomery, AL MSA	Autauga	1p3c	1	3	4	15257.1504	9052.23024	13452.186	14503.7076	
6	1	AL	TRUE	Montgomery, AL MSA	Autauga	1p4c	1	4	5	15257.1504	12182.214	13744.5884	17425.7856	
7	1	AL	TRUE	Montgomery, AL MSA	Autauga	2p0c	2	0	2	10180.2942	6334.01416	12861.8868	13474.25968	
8	1	AL	TRUE	Montgomery, AL MSA	Autauga	2p1c	2	1	3	12067.5034	7883.13888	12680.122	14397.0372	
9	1	AL	TRUE	Montgomery, AL MSA	Autauga	2p2c	2	2	4	12067.5034	9884.05268	14723.8076	17219.1228	
10	1	AL	TRUE	Montgomery, AL MSA	Autauga	2p3c	2	3	5	15257.1504	12180.7704	14894.8	20241.1872	
11	1	AL	TRUE	Montgomery, AL MSA	Autauga	2p4c	2	4	6	15257.1504	14017.3584	15064.2636	22163.2652	1
12	2	AL	TRUE	Daphne Fairhope Foley, AL MSA	Baldwin	1p0c	1	0	1	8630	3714.25484	10731.65256	5593.47984	
13	2	AL	TRUE	Daphne Fairhope Foley, AL MSA	Baldwin	1p1c	1	1	2	10964	5475.98816	12122.93844	8444.00888	
14	2	AL	TRUE	Daphne Fairhope Foley, AL MSA	Baldwin	1p2c	1	2	3	10964	8020.27812	12860.3152	11294.51344	
15	2	AL	TRUE	Daphne Fairhope Foley, AL MSA	Baldwin	1p3c	1	3	4	14988	10690.404	13452.9648	14145.0612	
16	2	AL	TRUE	Daphne Fairhope Foley, AL MSA	Baldwin	1p4c	1	4	5	14988	13006.794	13773.354	16995.588	1
17	2	AL	TRUE	Daphne Fairhope Foley, AL MSA	Baldwin	2p0c	2	0	2	8676	6800.54076	12838.26	11186.95668	
18	2	AL	TRUE	Daphne Fairhope Foley, AL MSA	Baldwin	2p1c	2	1	3	10964	8475.15888	14214.2784	14037.486	
19	2	AL	TRUE	Daphne Fairhope Foley, AL MSA	Baldwin	2p2c	2	2	4	10964	10735.6066	14766.3084	16898.014	
20	2	AL	TRUE	Daphne Fairhope Foley, AL MSA	Baldwin	2p3c	2	3	5	14988	11104.918	15071.3122	19736.5408	
21	2	AL	TRUE	Daphne Fairhope Foley, AL MSA	Baldwin	2p4c	2	4	6	14988	16037.2776	15174.3828	22580.0664	1
22	3	AL	FALSE	Barbour County, AL	Barbour	1p0c	1	0	1	5850	3217.02024	10890.72876	5686.79004	
23	3	AL	FALSE	Barbour County, AL	Barbour	1p1c	1	1	2	7776	4770.609	12416.48264	8495.9588	
24	3	AL	FALSE	Barbour County, AL	Barbour	1p2c	1	2	3	7776	6880.73852	12016.7944	11325.12356	
25	3	AL	FALSE	Barbour County, AL	Barbour	1p3c	1	3	4	9672	9524.6204	13404.508	14114.2568	
26	3	AL	FALSE	Barbour County, AL	Barbour	1p4c	1	4	5	9672	11415.9656	12530.8248	16923.4572	
27	3	AL	FALSE	Barbour County, AL	Barbour	2p0c	2	0	2	5894	5054.57168	12711.8432	11375.58008	
28	3	AL	FALSE	Barbour County, AL	Barbour	2p1c	2	1	3	7776	7386.17208	13271.94	14182.746	
29	3	AL	FALSE	Barbour County, AL	Barbour	2p2c	2	2	4	7776	9554.42768	13611.884	16991.9236	
30	3	AL	FALSE	Barbour County, AL	Barbour	2p3c	2	3	5	9672	11421.0462	13720.7796	19801.0812	
31	3	AL	FALSE	Barbour County, AL	Barbour	2p4c	2	4	6	9672	13976.622	13639.788	22610.2476	
32	4	AL	TRUE	Birmingham Hoover, AL HUD Metr Bbb	1p0c	1	0	1	1	7975.92164	3050.18864	13446.48484	5845.47964	
33	4	AL	TRUE	Birmingham Hoover, AL HUD Metr Bbb	1p1c	1	1	2	2	9779.52188	4405.38168	12235.8776	8821.218	
34	4	AL	TRUE	Birmingham Hoover, AL HUD Metr Bbb	1p2c	1	2	3	3	9779.52188	6586.48336	15566.48	11796.9556	
35	4	AL	TRUE	Birmingham Hoover, AL HUD Metr Bbb	1p3c	1	3	4	4	12717.2832	8786.66232	14094.588	14772.0848	
36	4	AL	TRUE	Birmingham Hoover, AL HUD Metr Bbb	1p4c	1	4	5	5	12717.2832	10755.4887	14358.126	17748.432	

### 3.4. Check for a Blank Values:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Case_id	State	IsMetro	Arenaname	County	Family_member_count	Adult_count	Child_count	Total_member	housing_cost	food_cost	transportation_cost	healthcare_cost	other_cost
2	31407	3169	WY	FAIR	Lincoln County, WY	1p0c	1	0	1	7488	5819.40528	14221.4168	14468.2592	
3	31408	3169	WY	FAIR	Lincoln County, WY	1p1c	1	1	2	8808	7267.80296	15042.96	18986.2416	
4	31409	3169	WY	FAIR	Lincoln County, WY	1p2c	1	2	3	8808	9264.51636	15565.7556	21705.0258	
5	31410	3169	WY	FAIR	Lincoln County, WY	1p3c	1	3	4	12216	11238.0154	15885.0848	25425.604	
6	31411	3169	WY	FAIR	Lincoln County, WY	1p4c	1	4	5	12216	13752.4372	16665.2086	28945.2864	
7	31412	3170	WY	FAIR	Washakie County, WY	1p0c	1	0	1	8808	3382.29084	11700.9192	7233.27984	
8	31413	3170	WY	FAIR	Washakie County, WY	1p1c	1	1	2	8808	4384.07472	12023.6228	10952.9814	
9	31414	3170	WY	FAIR	Washakie County, WY	1p2c	1	2	3	8808	7303.38132	11871.1832	14472.6432	
10	31415	3170	WY	FAIR	Washakie County, WY	1p3c	1	3	4	12360	9743.03336	14450.388	19992.3244	
11	31416	3170	WY	FAIR	Washakie County, WY	1p4c	1	4	5	12360	11926.1316	14777.7302	21712.038	
12	31417	3170	WY	FAIR	Washakie County, WY	2p0c	2	0	2	7728	6295.8074	14501.8664	14846.5292	
13	31418	3170	WY	FAIR	Washakie County, WY	2p1c	2	1	3	8808	7717.60332	15286.08	18086.2416	
14	31419	3170	WY	FAIR	Washakie County, WY	2p2c	2	2	4	8808	9774.17796	15805.668	21795.9228	
15	31420	3170	WY	FAIR	Washakie County, WY	2p3c	2	3	5	12360	11933.5288	16145.1036	25325.8034	
16	31421	3170	WY	FAIR	Washakie County, WY	2p4c	2	4	6	12360	14803.7792	16892.4488	28945.2864	
17	31422	3173	WY	FAIR	Weston County, WY	1p0c	1	0	1	8256	3278.53996	12088.5	7233.27984	
18	31423	3173	WY	FAIR	Weston County, WY	1p1c	1	1	2	10956	4811.77096	13626.6002	10952.9814	
19	31424	3173	WY	FAIR	Weston County, WY	1p2c	1	2	3	10956	7079.35126	14513.4606	14472.6432	
20	31425	3173	WY	FAIR	Weston County, WY	1p3c	1	3	4	12632	9444.10704	15102.60	19992.3244	
21	31426	3173	WY	FAIR	Weston County, WY	1p4c	1	4	5	12632	11546.2804	16017.2076	21712.038	
22	31427	3173	WY	FAIR	Weston County, WY	2p0c	2	0	2	8316	6050.65672	14760.1624	14846.5292	
23	31428	3173	WY	FAIR	Weston County, WY	2p1c	2	1	3	10956	7480.86696	15411.586	18086.2416	
24	31429	3173	WY	FAIR	Weston County, WY	2p2c	2	2	4	10956	9474.87448	16165.9028	21795.9228	
25	31430	3173	WY	FAIR	Weston County, WY	2p3c	2	3	5	12632	11567.4897	17118.584	25325.8034	
26	31431	3173	WY	FAIR	Weston County, WY	2p4c	2	4	6	12632	14155.8208	17184.1402	28945.2864	

After:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	Case_id	State	IsMetro	Arenaname	County	Family_member_count	Adult_count	Child_count	Total_member	housing_cost	food_cost	transportation_cost	healthcare_cost	other_cost	median_income	total_income	median_income	total_income	median_income
2	31407	3169	WY	FAIR	Lincoln County, WY	1p0c	1	0	1	7488	5819.40528	14221.4168	14468.2592		6254	51108.9672	70815.0549	70815.0549	70815.0549
3	31408	3169	WY	FAIR	Lincoln County, WY	1p1c	1	1	2	8808	7267.80296	15042.96	18986.2416		10888.2416	30238.7184	70815.0549	70815.0549	70815.0549
4	31409	3169	WY	FAIR	Lincoln County, WY	1p2c	1	2	3	8808	9264.51636	15565.7556	21705.0258		13185.03	30238.7184	70815.0549	70815.0549	70815.0549
5	31410	3169	WY	FAIR	Lincoln County, WY	1p3c	1	3	4	12216	11238.0154	15885.0848	25425.604		15042.96	30238.7184	70815.0549	70815.0549	70815.0549
6	31411	3169	WY	FAIR	Lincoln County, WY	1p4c	1	4	5	12216	13752.4372	16665.2086	28945.2864		17052.0258	30238.7184	70815.0549	70815.0549	70815.0549
7	31412	3170	WY	FAIR	Washakie County, WY	1p0c	1	0	1	8808	3382.29084	11700.9192	7233.27984		6254	51108.9672	70815.0549	70815.0549	70815.0549
8	31413	3170	WY	FAIR	Washakie County, WY	1p1c	1	1	2	8808	4384.07472	12023.6228	10952.9814		7233.27984	51108.9672	70815.0549	70815.0549	70815.0549
9	31414	3170	WY	FAIR	Washakie County, WY	1p2c	1	2	3	8808	7303.38132	11871.1832	14472.6432		8233.27984	51108.9672	70815.0549	70815.0549	70815.0549
10	31415	3170	WY	FAIR	Washakie County, WY	1p3c	1	3	4	12360	9743.03336	14450.388	19992.3244		9233.27984	51108.9672	70815.0549	70815.0549	70815.0549
11	31416	3170	WY	FAIR	Washakie County, WY	1p4c	1	4	5	12360	11926.1316	14777.7302	21712.038		10233.27984	51108.9672	70815.0549	70815.0549	70815.0549
12	31417	3170	WY	FAIR	Washakie County, WY	2p0c	2	0	2	7728	6295.8074	14501.8664	14846.5292		11233.27984	51108.9672	70815.0549	70815.0549	70815.0549
13	31418	3170	WY	FAIR	Washakie County, WY	2p1c	2	1	3	8808	7717.60332	15286.08	18086.2416		12233.27984	51108.9672	70815.0549	70815.0549	70815.0549
14	31419	3170	WY	FAIR	Washakie County, WY	2p2c	2	2	4	8808	9774.17796	15805.668	21795.9228		13233.27984	51108.9672	70815.0549	70815.0549	70815.0549
15	31420	3170	WY	FAIR	Washakie County, WY	2p3c	2	3	5	12360	11933.5288	16145.1036	25325.8034		14233.27984	51108.9672	70815.0549	70815.0549	70815.0549
16	31421	3170	WY	FAIR	Washakie County, WY	2p4c	2	4	6	12360	14803.7792	16892.4488	28945.2864		15233.27984	51108.9672	70815.0549	70815.0549	70815.0549
17	31422	3173	WY	FAIR	Washakie County, WY	1p0c	1	0	1	8808	3382.29084	11700.9192	7233.27984		6254	51108.9672	70815.0549	70815.0549	70815.0549
18	31423	3173	WY	FAIR	Washakie County, WY	1p1c	1	1	2	8808	4384.07472	12023.6228	10952.9814		7233.27984	51108.9672	70815.0549	70815.0549	70815.0549
19	31424	3173	WY	FAIR	Washakie County, WY	1p2c	1	2	3	8808	7303.38132	11871.1832	14472.6432		8233.27984	51108.9672	70815.0549	70815.0549	70815.0549
20	31425	3173	WY	FAIR	Washakie County, WY	1p3c	1	3	4	12360	9743.03336	14450.388	19992.3244		9233.27984	51108.9672	70815.0549	70815.0549	70815.0549
21	31426	3173	WY	FAIR	Washakie County, WY	1p4c	1	4	5	12360	11926.1316	14777.7302	21712.038		10233.27984	51108.9672	70815.0549	70815.0549	70815.0549
22	31427	3173	WY	FAIR	Washakie County, WY	2p0c	2	0	2	7728	6295.8074	14501.8664	14846.5292		11233.27984	51108.9672	70815.0549	70815.0549	70815.0549
23	31428	3173	WY	FAIR	Washakie County, WY	2p1c	2	1	3	8808	7717.60332	15286.08	18086.2416		12233.27984	51108.9672	70815.0549	70815.0549	70815.0549
24	31429	3173	WY	FAIR	Washakie County, WY	2p2c	2	2	4	8808	9774.17796	15805.668	21795.9228		13233.27984	51108.9672	70815.0549	70815.0549	70815.0549
25	31430	3173	WY	FAIR	Washakie County, WY	2p3c	2	3	5	12360	11933.5288	16145.1036	25325.8034		14233.27984	51108.9672	70815.0549	70815.0549	70815.0549
26	31431	3173	WY	FAIR	Washakie County, WY	2p4c	2	4	6	12360	14803.7792	16892.4488	28945.2864		15233.27984	51108.9672	70815.0549	70815.0549	70815.0549
27	31432	3173	WY	FAIR	Washakie County, WY	3p0c	3	0	3	13012	11567.4492	17118.384	31125.656		18330.752	51108.9672	70815.0549	70815.0549	70815.0549
28	31433	3173	WY	FAIR	Washakie County, WY	3p1c	3	1	4	13012	14155.6036	17118.384	30945.2864		18968.9388	51108.9672	70815.0549	70815.0549	70815.0549
29	31434	3173	WY	FAIR	Washakie County, WY	3p2c	3	2	5	13012	16744.168	17118.384	31125.656		20063.84	51108.9672	70815.0549	70815.0549	70815.0549
30	31435	3173	WY	FAIR	Washakie County, WY	3p3c	3	3	6	13012	19332.7224	17118.384	31125.656		21168.752	51108.9672	70815.0549	70815.0549	70815.0549
31	31436	3173	WY	FAIR	Washakie County, WY	3p4c	3	4	7	13012	21920.8768	17118.384	31125.656		22273.664	51108.9672	70815.0549	70815.0549	70815.0549
32	31437	3173	WY	FAIR	Washakie County, WY	4p0c	4	0	4	13012	24509.0312	17118.384	31125.656		23378.576	51108.9672	70815.0549	70815.0549	70815.0549
33	31438	3173	WY	FAIR	Washakie County, WY	4p1c	4	1	5	13012	27097.1856	17118.384	31125.656		24483.488	51108.9672	70815.0549	70815.0549	70815.0549
34	31439	3173	WY	FAIR	Washakie County, WY	4p2c	4	2	6	13012	29685.3392	17118.384	31125.656		25588.4	51108.9672	70815.0549	70815.0549	70815.0549
35	31440	3173	WY	FAIR	Washakie County, WY	4p3c	4	3	7	13012	32273.4936	17118.384	31125.656		26693.312	51108.9672	70815.0549	70815.0549	70815.0549
36	31441	3173	WY	FAIR	Washakie County, WY	4p4c	4	4	8	13012	34861.648	17118.384	31125.656		27798.224	51108.9672	70815.0549	70815.0549	70815.0549
37	31442	3173	WY	FAIR	Washakie County, WY	5p0c	5	0	5	13012	37449.8024	17118.384	31125.656		28903.136	51108.9672	70815.0549	70815.0549	70815.0549
38	31443	3173	WY	FAIR	Washakie County, WY	5p1c	5	1	6	13012	40037.9568	17118.384	31125.656		30008.048	51108.9672	70815.0549	70815.0549	70815.0549
39	31444	3173	WY	FAIR	Washakie County, WY	5p2c	5	2	7	13012	42626.1112	17118.384	31125.656		31112.96	51108.9672	70815.0549	70815.0549	70815.0549
40	31445	3173	WY	FAIR	Washakie County, WY	5p3c	5	3	8	13012	45214.2656	17118.384	31125.656		32217.872	51108.9672	70815.0549	70815.0549	70815.0549
41	31446	3173	WY	FAIR	Washakie County, WY	5p4c	5	4	9	13012	47802.42	17118.384	31125.656		33322.784	51108.9672	70815.0549	70815.0549	70815.0549
42	31447	3173	WY	FAIR	Washakie County, WY	6p0c	6	0	6	13012	50390.5744	17118.384	31125.656		34427.696	51108.9672	70815.0549	70815.0549	70815.0549
43	31448	3173	WY	FAIR	Washakie County, WY	6p1c	6	1	7	13012	52978.7288	17118.384	31125.656		35532.608	51108.9672	70815.0549	70815.0549	70815.0549
44	31449	3173	WY	FAIR	Washakie County, WY	6p2c	6	2	8	13012	55566.8832	17118.384	31125.656		36637.52	51108.9672	70815.0549	70815.0549	70815.0549
45	31450	3173	WY	FAIR	Washakie County, WY	6p3c	6	3	9	13012	58155.0376	17118.384	31125.656		37742.432	51108.9672	70815.0549	70815.0549	70815.0549
46	31451	3173	WY	FAIR	Washakie County, WY	6p4c	6	4	10	13012	60743.192	17118.384	31125.656		38847.344	51108.9672	70815.0549	70815.0549	70815.0549
47	31452	3173	WY	FAIR	Washakie County, WY	7p0c	7	0	7	13012	63331.3464	17118.384	31125.656		39952.256	51108.9672	70815.0549	70815.0549	70815.0549
48	31453	3173	WY	FAIR	Washakie County, WY	7p1c	7	1	8	13012	65919.5008	17118.384	31125.656		41057.168	51108.9672	70815.0549	70815.0549	70815.0549
49	31454	3173	WY	FAIR	Washakie County, WY	7p2c	7	2	9	13012	68507.6552	17118.384	31125.656		42162.08	51108.9672	70815.0549	70815.0549	70815.0549
50	31455	3173	WY	FAIR	Washakie County, WY	7p3c	7	3	10	13012	71095.8096	17118.384	31125.656		43266.992	51108.9672	70815.0549	70815.0549	70815.0549
51	31456	3173	WY	FAIR	Washakie County, WY	7p4c	7	4	11	13012	73684.064	17118.384	31125.656		44371.904	51108.9672	70815.0549	70815.0549	70815.0549
52	31457	3173	WY	FAIR	Washakie County, WY	8p0c	8	0	8	13012	76272.2184	17118.384	31125.656		45476.816	51108.9672	70815.0549	70815.0549	70815.0549
53	31458	3173	WY	FAIR	Washakie County, WY	8p1c	8	1	9	13012	78860.3728	17118.384	31125.656		46581.728	51108.9672	70815.0549	70815.0549	70815.0549
54	31459	3173	WY	FAIR	Washakie County, WY	8p2c	8	2	10	13012	81448.5272	17118.384	31125.656		47686.64	51108.9672	70815.0549	70815.0549	70815.0549
55	31460	3173	WY	FAIR	Washakie County, WY	8p3c	8	3	11	13012	84036.6816	17118.384	31125.656		48791.552	51108.9672	70815.0549	70815.0549	70815.0549
56	31461	3173	WY	FAIR	Washakie County, WY	8p4c	8	4	12	13012	86624.836	17118.384	31125.656		49896.464	51108.9672	70815.0549	70815.0549	70815.0549
57	31462	3173	WY	FAIR	Washakie County, WY	9p0c	9	0	9	13012	89212.9904	17118.384	31125.656		51001.376	51108.9672	70815.0549	70815.0549	70815.0549
58	31463	3173	WY	FAIR	Washakie County, WY	9p1c	9	1	10										



### 3.5. Renaming the column header:

During the data cleaning process, inconsistencies in column names were identified, with some names appearing in uppercase and others in lowercase. To standardize naming conventions and facilitate data manipulation and error prevention, all column names were renamed.

**Before:**

Case ID	State	Vehicle	Insurance Company	Family size	Adults	Child	Count	Total members	Injury confirmed	Transportation unaffordable	Another member	Costly children	Costly adult	Costly teen	Costly family
1	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
2	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
3	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
4	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
5	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
6	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
7	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
8	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
9	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
10	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
11	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
12	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
13	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
14	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
15	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
16	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
17	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
18	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
19	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
20	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
21	AL	TRUCK	Montgomery Auto	1	1	0	1	1	1	0	0	0	0	0	0
22	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
23	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
24	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
25	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
26	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
27	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
28	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
29	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
30	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
31	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
32	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
33	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
34	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
35	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
36	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
37	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
38	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
39	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
40	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
41	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
42	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
43	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
44	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0
45	AL	FALCON	Birmingham Bldg	1	1	0	1	1	1	0	0	0	0	0	0

**After:**

The PROPER() function in Excel capitalizes the first letter of each word in a text string. Here the header name in column A, “Case\_id”, has been transformed to “Case\_Id” using the PROPER() function.

[illegible]









Microsoft Excel interface showing data analysis steps:

**Step 1: Select Range**

**Step 2: Data**

**Step 3: Remove Duplicates**

**Step 4: Remove Duplicates**

The interface displays a table with columns: Case\_id, State, County, Assessor's County, Family\_mbr, Adult\_count, Child\_count, Total\_member, housing\_conflict\_cost, transportation\_cost, healthcare\_cost, insurance\_cost, children\_cost, total\_cost, median\_family\_income. The table contains data for various states and counties, including Montgomery, Allegheny, and Berks.

The "Remove Duplicates" dialog box is shown, indicating that duplicates have been removed based on the selected columns.

Step 5:

After:

There was only one duplicate row in the dataset. After removing the duplicate entry, the 'rows()' function was utilized to determine the number of remaining rows in the dataset.

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### 3.7. Extracting Area Name

Before:

Column Name: Areataname

Case #	State	County	Area/Agency	County Facility	Merchandise	Count	Adult	Child	Count Total	Un-Housing	Cost	Food Cost	Transportation	Healthcare	Cost	Other	Necessities	Cost
1	AL	TRUL	Montgomery, AL MSA	Refugee	1pc	1	0	2	2	0	4925.7187	3454.9571	2028.1387	1771.4789			4314.8	
2	AL	TRUL	Montgomery, AL MSA	Refugee	1pc	1	0	2	2	0	12087.3224	9091.7878	12188.4284	8484.8447			9171.88	
3	AL	TRUL	Montgomery, AL MSA	Refugee	1pc	3	0	3	3	0	13087.7614	9480.1358	12781.7772	12381.6328			10715.45	
4	AL	TRUL	Montgomery, AL MSA	Refugee	1pc	4	0	4	4	0	15257.1504	10922.1304	14952.186	14553.7676			8134.	
5	AL	TRUL	Montgomery, AL MSA	Refugee	1pc	5	0	5	5	0	17497.1508	12182.251	17374.5888	17325.788			9812.38	
6	AL	TRUL	Montgomery, AL MSA	Refugee	2pc	2	0	2	2	0	10185.2442	6334.0356	10881.2884	11574.9588			5883.78	
7	AL	TRUL	Montgomery, AL MSA	Refugee	2pc	3	0	3	3	0	15857.5814	10812.5588	15058.117	14267.0573			7138.38	
8	AL	TRUL	Montgomery, AL MSA	Refugee	2pc	2	0	2	2	0	13087.7614	9480.1358	12781.7772	12381.6328			9801.	
9	AL	TRUL	Montgomery, AL MSA	Refugee	2pc	2	0	2	2	0	15257.1504	10922.1304	14952.186	14553.7676			8134.	
10	AL	TRUL	Montgomery, AL MSA	Refugee	2pc	2	0	2	2	0	15257.1504	10922.1304	14952.186	14553.7676			8134.	
11	AL	TRUL	Montgomery, AL MSA	Refugee	2pc	2	0	2	2	0	15257.1504	10922.1304	14952.186	14553.7676			8134.	
12	AL	TRUL	Duckhorn Fairhope-Foley, AL MSA	Refugee	1pc	1	0	1	1	0	1814.9814	1071.4789	1071.4789	1071.4789			4447.	
13	AL	TRUL	Duckhorn Fairhope-Foley, AL MSA	Refugee	1pc	2	0	2	2	0	3184.4	1957.1304	1152.2304	844.2608			935.02	
14	AL	TRUL	Duckhorn Fairhope-Foley, AL MSA	Refugee	1pc	1	0	1	1	0	1184.4	803.0736	1200.1352	1234.5344			494.48	
15	AL	TRUL	Duckhorn Fairhope-Foley, AL MSA	Refugee	1pc	1	0	1	1	0	1588	1049.888	1357.8848	1413.9812			937.97	
16	AL	TRUL	Duckhorn Fairhope-Foley, AL MSA	Refugee	1pc	1	0	1	1	0	1588	1049.888	1357.8848	1413.9812			937.97	
17	AL	TRUL	Duckhorn Fairhope-Foley, AL MSA	Refugee	1pc	1	0	1	1	0	1588	1049.888	1357.8848	1413.9812			937.97	
18	AL	TRUL	Duckhorn Fairhope-Foley, AL MSA	Refugee	1pc	1	0	1	1	0	1588	1049.888	1357.8848	1413.9812			937.97	
19	AL	TRUL	Duckhorn Fairhope-Foley, AL MSA	Refugee	1pc	1	0	1	1	0	1588	1049.888	1357.8848	1413.9812			937.97	
20	AL	TRUL	Duckhorn Fairhope-Foley, AL MSA	Refugee	1pc	1	0	1	1	0	1588	1049.888	1357.8848	1413.9812			937.97	
21	AL	TRUL	Duckhorn Fairhope-Foley, AL MSA	Refugee	1pc	1	0	1	1	0	1588	1049.888	1357.8848	1413.9812			937.97	
22	AL	TRUL	Duckhorn Fairhope-Foley, AL MSA	Refugee	1pc	1	0	1	1	0	1588	1049.888	1357.8848	1413.9812			937.97	
23	AL	TRUL	Duckhorn Fairhope-Foley, AL MSA	Refugee	1pc	1	0	1	1	0	1588	1049.888	1357.8848	1413.9812			937.97	
24	AL	TRUL	Duckhorn Fairhope-Foley, AL MSA	Refugee	1pc	1	0	1	1	0	1588	1049.888	1357.8848	1413.9812			937.97	
25	AL	TRUL	Duckhorn Fairhope-Foley, AL MSA	Refugee	1pc	1	0	1	1	0	1588	1049.888	1357.8848	1413.9812			937.97	
26	AL	TRUL	Duckhorn Fairhope-Foley, AL MSA	Refugee	1pc													

This formula checks if there is a comma in the string using ISNUMBER(FIND(",", D2)). If a comma is found, it extracts the value before the comma using TRIM(LEFT(D2, FIND(",", D2) - 1)). If no comma is found, it copies the entire value using D2.

State	Ismetro	Arsaname	Arsaname	State	County	Family_Member_Count	Adult	Child	Count	Total	Housing_Cost	Food_Cost	Transport
AL	TRUE	Montgomery, AL NSA	Montgomery	AL	Autauga	1p1c	1	0	1	8505.72876	3454.91712		10421
AL	TRUE	Montgomery, AL NSA	Montgomery	AL	Autauga	1p1c	1	2	2	12067.5014	5091.70188		12588
AL	TRUE	Montgomery, AL NSA	Montgomery	AL	Autauga	1p1c	1	2	3	12067.5014	7960.20308		12718
AL	TRUE	Montgomery, AL NSA	Montgomery	AL	Autauga	1p1c	1	1	4	15257.1504	6952.23614		131
AL	TRUE	Montgomery, AL NSA	Montgomery	AL	Autauga	2p1c	1	5	5	15257.1504	12189.7704		1471
AL	TRUE	Montgomery, AL NSA	Montgomery	AL	Autauga	3p1c	2	1	3	12067.5014	7963.31888		127
AL	TRUE	Montgomery, AL NSA	Montgomery	AL	Autauga	2p1c	2	2	4	12067.5014	9984.02168		1472
AL	TRUE	Montgomery, AL NSA	Montgomery	AL	Autauga	2p1c	2	3	5	15257.1504	12189.7704		
AL	TRUE	Montgomery, AL NSA	Montgomery	AL	Autauga	2p1c	2	4	6	15257.1504	14917.31584		2508
AL	TRUE	Daphne-Fairhope-Foley, AL NSA	Daphne	AL	Baldwin	1p1c	1	0	1	8636	3714.25404		10731
AL	TRUE	Daphne-Fairhope-Foley, AL NSA	Daphne	AL	Baldwin	1p1c	1	1	2	13064	5473.66836		13522
AL	TRUE	Daphne-Fairhope-Foley, AL NSA	Daphne	AL	Baldwin	1p1c	1	2	3	13064	8025.27812		1281
AL	TRUE	Daphne-Fairhope-Foley, AL NSA	Daphne	AL	Baldwin	1p1c	1	3	4	14988	10099.404		1347
AL	TRUE	Daphne-Fairhope-Foley, AL NSA	Daphne	AL	Baldwin	2p1c	1	4	5	14988	13590.794		137
AL	TRUE	Daphne-Fairhope-Foley, AL NSA	Daphne	AL	Baldwin	2p1c	2	0	2	8876	6800.54016		12
AL	TRUE	Daphne-Fairhope-Foley, AL NSA	Daphne	AL	Baldwin	3p1c	2	1	3	13064	8475.35888		1422
AL	TRUE	Daphne-Fairhope-Foley, AL NSA	Daphne	AL	Baldwin	2p1c	2	2	4	13064	10733.80664		1474
AL	TRUE	Daphne-Fairhope-Foley, AL NSA	Daphne	AL	Baldwin	2p1c	2	3	5	14988	12104.918		1501
AL	FALSE	Barbour County, AL	Barbour	AL	Barbour	1p1c	0	0	1	5856	3637.20504		10886
AL	FALSE	Barbour County, AL	Barbour	AL	Barbour	1p1c	1	0	1	7736	4731.449		1344
AL	FALSE	Barbour County, AL	Barbour	AL	Barbour	1p1c	1	1	2	7776	6989.71852		1282
AL	FALSE	Barbour County, AL	Barbour	AL	Barbour	1p1c	1	1	4	9672	9224.6204		121
AL	FALSE	Barbour County, AL	Barbour	AL	Barbour	1p1c	1	4	5	9672	11413.96504		523
AL	FALSE	Barbour County, AL	Barbour	AL	Barbour	2p1c	2	0	2	5904	5034.57188		1277
AL	FALSE	Barbour County, AL	Barbour	AL	Barbour	3p1c	2	1	3	7776	7386.12208		81
AL	FALSE	Barbour County, AL	Barbour	AL	Barbour	2p1c	2	2	4	7776	9254.42768		231
AL	FALSE	Barbour County, AL	Barbour	AL	Barbour	2p1c	2	3	5	9672	11621.0462		8327
AL	FALSE	Barbour County, AL	Barbour	AL	Barbour	2p1c	2	4	6	9672	13976.622		318
AL	TRUE	Birmingham-Hoover, AL HSD Metro FMR Area	BHM	AL	BHM	1p1c	1	0	1	7973.92164	3050.28864		1344
AL	TRUE	Birmingham-Hoover, AL HSD Metro FMR Area	BHM	AL	BHM	1p1c	1	2	2	9779.52168	4895.18168		1222
AL	TRUE	Birmingham-Hoover, AL HSD Metro FMR Area	BHM	AL	BHM	1p1c	1	2	3	9779.52168	6986.48536		12
AL	TRUE	Birmingham-Hoover, AL HSD Metro FMR Area	BHM	AL	BHM	1p1c	1	3	4	12717.2832	8796.66232		146
AL	TRUE	Birmingham-Hoover, AL HSD Metro FMR Area	BHM	AL	BHM	2p1c	1	4	5	12717.2832	10755.44872		141
AL	TRUE	Birmingham-Hoover, AL HSD Metro FMR Area	BHM	AL	BHM	2p1c	2	0	2	8500.9614	5592.10106		1318
AL	TRUE	Birmingham-Hoover, AL HSD Metro FMR Area	BHM	AL	BHM	2p1c	2	1	3	9779.52168	6960.54764		1427
cost of living in sheets													

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A	B	C	D	E	F	G	H	I	J	K	L	M	N
State	Ismetro	Arsaname	Arsaname	State	County	Family_Member_Count	Adult_C	Child_Count	Total_Housing_Cost	Food_Cost	Transport		
170 AL	TRUE	Flomence-Muscle Shoals, AL MSA	Flomence-Muscle Shoals	AL	Colbert	2p0c	2	3	5	11086.875	1005.8968	140	
171 AL	TRUE	Flomence-Muscle Shoals, AL MSA	Flomence-Muscle Shoals	AL	Colbert	2p0c	2	4	6	11086.875	1385.7004	140	
172 AL	FALSE	Conecuh County, AL	Conecuh County	AL	Conecuh	1p0c	1	0	1	5748	5071.037	1143	
173 AL	FALSE	Conecuh County, AL	Conecuh County	AL	Conecuh	1p0c	1	1	2	7608	4525.94248	12	
174 AL	FALSE	Conecuh County, AL	Conecuh County	AL	Conecuh	1p0c	1	2	3	7608	6651.2932	128	
175 AL	FALSE	Conecuh County, AL	Conecuh County	AL	Conecuh	1p0c	1	3	4	10884	8846.43456	133	
176 AL	FALSE	Conecuh County, AL	Conecuh County	AL	Conecuh	1p0c	1	4	5	10884	10836.63476	137	
177 AL	FALSE	Conecuh County, AL	Conecuh County	AL	Conecuh	2p0c	2	0	2	6384	5630.225	131	
178 AL	FALSE	Conecuh County, AL	Conecuh County	AL	Conecuh	2p0c	2	1	3	7608	7007.39421	138	
179 AL	FALSE	Conecuh County, AL	Conecuh County	AL	Conecuh	2p0c	2	2	4	7928	8874.71412	141	
180 AL	FALSE	Conecuh County, AL	Conecuh County	AL	Conecuh	2p0c	2	3	5	10884	10825.51576	145	
181 AL	FALSE	Conecuh County, AL	Conecuh County	AL	Conecuh	2p0c	2	4	6	10884	13259.8728	149	
182 AL	FALSE	Coosa County, AL	Coosa County	AL	Coosa	1p0c	1	0	1	8240	5122.88988	1136	
183 AL	FALSE	Coosa County, AL	Coosa County	AL	Coosa	1p0c	1	1	2	8268	5122.8898	1	
184 AL	FALSE	Coosa County, AL	Coosa County	AL	Coosa	1p0c	1	2	3	8268	7505.00904	120	
185 AL	FALSE	Coosa County, AL	Coosa County	AL	Coosa	1p0c	1	3	4	10284	10011.01348	138	
186 AL	FALSE	Coosa County, AL	Coosa County	AL	Coosa	1p0c	1	4	5	10284	12255.3804	140	
187 AL	FALSE	Coosa County, AL	Coosa County	AL	Coosa	2p0c	2	0	2	6776	6372.0564	131	
188 AL	FALSE	Coosa County, AL	Coosa County	AL	Coosa	2p0c	2	1	3	8268	7950.88548	135	
189 AL	FALSE	Coosa County, AL	Coosa County	AL	Coosa	2p0c	2	2	4	8268	10046.0368	142	
190 AL	FALSE	Coosa County, AL	Coosa County	AL	Coosa	2p0c	2	3	5	10284	12262.9812	145	
191 AL	FALSE	Coosa County, AL	Coosa County	AL	Coosa	2p0c	2	4	6	10284	15006.9504	149	
192 AL	FALSE	Covington County, AL	Covington County	AL	Covington	1p0c	1	0	1	5748	5091.74752	1119	
193 AL	FALSE	Covington County, AL	Covington County	AL	Covington	1p0c	1	1	2	7608	4556.34328	1185	
194 AL	FALSE	Covington County, AL	Covington County	AL	Covington	1p0c	1	2	3	7608	6676.09716	127	
195 AL	FALSE	Covington County, AL	Covington County	AL	Covington	1p0c	1	3	4	10552	8906.20824	130	
196 AL	FALSE	Covington County, AL	Covington County	AL	Covington	1p0c	1	4	5	10552	10901.8008	133	
197 AL	FALSE	Covington County, AL	Covington County	AL	Covington	2p0c	2	0	2	3988	3668.2774	130	
198 AL	FALSE	Covington County, AL	Covington County	AL	Covington	2p0c	2	1	3	7608	7054.78168	137	
199 AL	FALSE	Covington County, AL	Covington County	AL	Covington	2p0c	2	2	4	7608	8954.67752	141	
200 AL	FALSE	Covington County, AL	Covington County	AL	Covington	2p0c	2	3	5	10552	10908.58256	143	
201 AL	FALSE	Covington County, AL	Covington County	AL	Covington	2p0c	2	4	6	10552	13349.4672	146	
202 AL	FALSE	Crenshaw County, AL	Crenshaw County	AL	Crenshaw	1p0c	1	0	1	5748	5413.41668	1149	
203 AL	FALSE	Crenshaw County, AL	Crenshaw County	AL	Crenshaw	1p0c	1	1	2	7608	5040.54592	121	
204 AL	FALSE	Crenshaw County, AL	Crenshaw County	AL	Crenshaw	1p0c	1	2	3	7608	7370.59128	127	
205 AL	FALSE	Crenshaw County, AL	Crenshaw County	AL	Crenshaw	1p0c	1	3	4	9468	9832.49332	131	
206 AL	FALSE	Crenshaw County, AL	Crenshaw County	AL	Crenshaw	1p0c	1	4	5	9468	12105.8852	139	

### 3.8. Removing extra spaces

Column Name: Ismetro

Before:

The "Ismetro" column initially contained leading spaces, and those spaces have been removed for clarity.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Case	AL	State	Ismetro	Arsaname	County	Adult_C	Child_Count	Total_Housing_Cost	Food_Cost	Transportation	Healthcare_Cost	Other_Necessities_Cost	Childcare_Cost	Taxes	Total_Cost	Median_Family_Income
2	AL	TRUE		Montgomery-Artichoke	AL	1	0	8565.12636	3454.81712	3028.50878	5737.47989	4331.81344	0	6385	30254.0532	7810.41468
3	AL	TRUE		Montgomery-Artichoke	AL	1	1	11867.5024	5891.70768	15588.10288	8095.5504	8213.48968	0	7779	57794.3276	73018.41408
4	AL	TRUE		Montgomery-Artichoke	AL	1	2	12883.9028	7948.20384	13381.7772	13381.8434	1075.40816	0	8783	60453.8888	78828.41808
5	AL	TRUE		Montgomery-Artichoke	AL	1	3	25257.2384	8952.33824	14953.188	18881.1892	11181	0	8403	54033.3328	73818.41408
6	AL	TRUE		Montgomery-Artichoke	AL	2	0	35257.2384	12162.214	17741.888	19251.7888	18881.1892	0	8403	66716.09716	73818.41408
7	AL	TRUE		Montgomery-Artichoke	AL	2	1	35257.2384	12162.214	17741.888	19251.7888	18881.1892	0	8403	66716.09716	73818.41408
8	AL	TRUE		Montgomery-Artichoke	AL	2	2	11867.5024	7883.31888	23085.512	14037.0172	7728.30844	0	8783	57794.3276	73018.41408
9	AL	TRUE		Montgomery-Artichoke	AL	2	3	22867.5024	9888.26288	14723.6876	17338.1328	7883.31888	0	8783	60453.8888	73818.41408
10	AL	TRUE		Montgomery-Artichoke	AL	3	0	25257.2384	12162.214	17741.888	19251.7888	18881.1892	0	8403	66716.09716	73818.41408
11	AL	TRUE		Montgomery-Artichoke	AL	3	1	35257.2384	14977.5584	17046.2836	23183.3952	39711.4104	0	8403	113764.8596	73818.41408
12	AL	TRUE		Doyleton-Fairhope/Baldwin	AL	0	1	8028	3714.26896	8703.85276	3581.47988	4467.7318	0	4468	30176.8988	73884.75792
13	AL	TRUE		Doyleton-Fairhope/Baldwin	AL	1	1	11064	3473.30436	11522.8244	9444.80888	5983.7142	0	7087	55518.5556	73884.75792
14	AL	TRUE		Doyleton-Fairhope/Baldwin	AL	1	2	11064	3473.30436	12089.1352	11276.5334	6915.88888	0	7087	57668.4672	73884.75792
15	AL	TRUE		Doyleton-Fairhope/Baldwin	AL	1	3	14888	4008.404	14852.9448	14743.0812	8837.55416	0	7087	61818.8756	73884.75792
16	AL	TRUE		Doyleton-Fairhope/Baldwin	AL	1	4	14888	5308.704	13773.354	18895.588	10176.22718	0	7087	68669.524	73884.75792
17	AL	TRUE		Doyleton-Fairhope/Baldwin	AL	2	0	8076	4828.34976	12888.24	11248.8688	8413.8168	0	7087	34882.5888	73884.75792
18	AL	TRUE		Doyleton-Fairhope/Baldwin	AL	2	1	11064	3473.30436	14254.2764	14027.488	9079.8874	0	7087	55774.8576	73884.75792
19	AL	TRUE		Doyleton-Fairhope/Baldwin	AL	2	2	11064	3473.30436	14768.1368	14088.914	7898.15378	0	7087	57668.4672	73884.75792
20	AL	TRUE		Doyleton-Fairhope/Baldwin	AL	2	3	14888	5308.704	15031.1512	18738.5408	10176.22718	0	7087	68669.524	73884.75792
21	AL	TRUE		Doyleton-Fairhope/Baldwin	AL	2	4	14888	6607.7718	15134.9818	22580.0864	11341.88888	0	7087	73718.7732	73884.75792
22	AL	FALSE		Barbour-County/Bartow	AL	0	1	3896	1037.81828	3888.21878	3888.21878	3888.21878	0	4468	18882.4682	48822.75808
23	AL	FALSE		Barbour-County/Bartow	AL	1	1	7776	4718.308	11438.4624	8485.5568	4948.13114	0	4468	47205.4188	48822.75808
24	AL	FALSE		Barbour-County/Bartow	AL	1	2	7776	6089.71402	15003.7944	11308.12796	5790.1894	0	4468	48155.8476	48822.75808
25	AL	FALSE		Barbour-County/Bartow	AL	1	3	9672	6324.3688	24898.368	14134.2808	6883.25532	0	4468	57678.2988	48822.75808
26	AL	FALSE		Barbour-County/Bartow	AL	1	4	9672	7635.632	25383.848	18023.4572	7640.27712	0	4468	62128.8188	48822.75808
27	AL	FALSE		Barbour-County/Bartow	AL	2	0	8996	1914.97488	17711.6432	11773.58888	4288.88544	0	4468	48822.75808	48822.75808
28	AL	FALSE		Barbour-County/Bartow	AL	2	1	7776	7388.57208	14271.04	14023.344	2441.81432	0	4468	48155.8476	48822.75808
29	AL	FALSE		Barbour-County/Bartow	AL	2	2	7776	8704.41768	16991.2624	16991.2624	8537.8188	0	4468	57678.2988	48822.75808
30	AL	FALSE		Barbour-County/Bartow	AL	2	3	9672	9635.0288	17753.7788	18881.2812	7640.27712	0	4468	62128.8188	48822.75808
31	AL	FALSE		Barbour-County/Bartow	AL	2	4	9672	10946.312	18268.768	22003.1478	8558.82816	0	4468	68669.524	48822.75808
32	AL	TRUE		Birmingham-HC-988	AL	0	1	3975.02144	3804.38864	11448.48464	5845.47884	0	8783	3975.02144	59441.88818	59441.88818
33	AL	TRUE		Birmingham-HC-988	AL	1	1	8776.52168	4495.38888	12218.8716	8425.218	0	8783	11776.52168	59441.88818	59441.88818
34	AL	TRUE		Birmingham-HC-988	AL	1	2	8776.52168	5808.40318	13966.48	11795.0556	0	8783	13966.48	59441.88818	59441.88818
35	AL	TRUE		Birmingham-HC-988	AL	1	3	12715.2832	6784.40312	16991.2624	17711.6432	0	8783	16991.2624	59441.88818	59441.88818
36	AL	TRUE		Birmingham-HC-988	AL	1	4	12715.2832	8105.4872	18268.768	22003.1478	0	8783	22003.1478	59441.88818	59441.88818
37	AL	TRUE		Birmingham-HC-988	AL	2	0	8996	1914.97488	15381.6292	11698.9168	0	8783	15381.6292	59441.88818	59441.88818
38	AL	TRUE		Birmingham-HC-988	AL	2	1	8776.52168	24898.368	14797.0328	14048.0888	0	8783	14048.0888	59441.88818	59441.88818
39	AL	TRUE		Birmingham-HC-988	AL	2	2	8776.52168	3804.38864	15243.2712	17942.432	0	8783	17942.432	59441.88818	59441.88818
40	AL	TRUE		Birmingham-HC-988	AL	2	3	12715.2832	5808.40312	18485.7144	22003.1478	0	8783	22003.1478	59441.88818	59441.88818
41	AL	TRUE		Birmingham-HC-988	AL	2	4	12715.2832	7125.2784	19586.336	22003.1478	0	8783	22003.1478	59441.88818	59441.88818
42	AL	TRUE		Birmingham-HC-988	AL	3	0	7146.05864	3277.704	11228.16364	5845.47884	0	8783	17942.432	62058.52808	62058.52808
43	AL	TRUE		Birmingham-HC-988	AL	3	1	8488.83084	4687.1888	12168.2688	8425.218	0	8783	12168.2688	62058.52808	62058.52808

After:

The TRIM() function effectively eliminates unnecessary spaces within the values. Unnecessary spaces have been successfully removed.

Worksheet: **TRIM(C2)**

Case_M	State	Lat	Long	Address	County	Adult_C	Child_C	Count	Total_M	Housing_Cost	Food_Cost	Transportation	Healthcare_Cost	Other_Necessities_Cost	Childcare_Cost	TaxesTotal_Cost	Median_FamInc
1	LA	TRUL	TRUL	Montgomery	Montgomery	1	0	1	8655.28718	4954.05753	12883.18676	1777.47084	4333.43344	0	0.000	39254.0332	2
2	LA	TRUL	TRUL	Montgomery	Montgomery	1	1	2	13087.58218	5081.78180	12580.18180	8028.52584	5237.45080	6547.81180	7432	57184.5258	2
3	LA	TRUL	TRUL	Montgomery	Montgomery	1	2	3	13087.58218	5081.78180	12580.18180	8028.52584	5237.45080	6547.81180	7432	57184.5258	2
4	LA	TRUL	TRUL	Montgomery	Montgomery	1	3	4	15257.1504	9952.23024	13462.180	14020.5076	8234.2562	5882.1882	2302	94825.5238	3
5	LA	TRUL	TRUL	Montgomery	Montgomery	1	4	5	15257.1504	11182.334	13784.5084	17425.7656	8942.36386	5882.1882	13468	308825.53	3
6	LA	TRUL	TRUL	Montgomery	Montgomery	1	5	6	15180.2942	6194.05436	12883.18676	13375.99988	5883.78524	0	8237	38871.6488	2
7	LA	TRUL	TRUL	Montgomery	Montgomery	1	6	7	13087.58218	5081.78180	12580.18180	8028.52584	5237.45080	6547.81180	7432	57184.5258	2
8	LA	TRUL	TRUL	Montgomery	Montgomery	1	7	8	13087.58218	5081.78180	12580.18180	8028.52584	5237.45080	6547.81180	7432	57184.5258	2
9	LA	TRUL	TRUL	Montgomery	Montgomery	1	8	9	15257.1504	12348.7794	14994.6	20341.3873	9945.18135	5882.1882	12318	524640.1514	3
10	LA	TRUL	TRUL	Montgomery	Montgomery	1	9	10	15257.1504	14811.2384	15984.2636	23353.2053	10933.43344	5882.1882	13417	11254.8598	3
11	LA	TRUL	TRUL	Montgomery	Montgomery	1	10	11	8634	3734.3984	10731.65236	15845.47084	4884.7528	0	8474	38871.6488	2
12	LA	TRUL	TRUL	Montgomery	Montgomery	1	11	12	11804	5473.98036	12523.08844	8444.08088	5882.25828	5882.25828	7432	57184.5258	2
13	LA	TRUL	TRUL	Montgomery	Montgomery	1	12	13	11804	6025.79532	12883.18676	12883.18676	5882.25828	5882.25828	7432	57184.5258	2
14	LA	TRUL	TRUL	Montgomery	Montgomery	1	13	14	13087.58218	5081.78180	12580.18180	8028.52584	5237.45080	6547.81180	7432	57184.5258	2
15	LA	TRUL	TRUL	Montgomery	Montgomery	1	14	15	15257.1504	12348.7794	14994.6	20341.3873	9945.18135	5882.1882	12318	524640.1514	3
16	LA	TRUL	TRUL	Montgomery	Montgomery	1	15	16	15257.1504	14811.2384	15984.2636	23353.2053	10933.43344	5882.1882	13417	11254.8598	3
17	LA	TRUL	TRUL	Montgomery	Montgomery	1	16	17	8634	3734.3984	10731.65236	15845.47084	4884.7528	0	8474	38871.6488	2
18	LA	TRUL	TRUL	Montgomery	Montgomery	1	17	18	11804	5473.98036	12523.08844	8444.08088	5882.25828	5882.25828	7432	57184.5258	2
19	LA	TRUL	TRUL	Montgomery	Montgomery	1	18	19	11804	6025.79532	12883.18676	12883.18676	5882.25828	5882.25828	7432	57184.5258	2
20	LA	TRUL	TRUL	Montgomery	Montgomery	1	19	20	13087.58218	5081.78180	12580.18180	8028.52584	5237.45080	6547.81180	7432	57184.5258	2
21	LA	TRUL	TRUL	Montgomery	Montgomery	1	20	21	15257.1504	12348.7794	14994.6	20341.3873	9945.18135	5882.1882	12318	524640.1514	3
22	LA	TRUL	TRUL	Montgomery	Montgomery	1	21	22	15257.1504	14811.2384	15984.2636	23353.2053	10933.43344	5882.1882	13417	11254.8598	3
23	LA	TRUL	TRUL	Montgomery	Montgomery	1	22	23	8634	3734.3984	10731.65236	15845.47084	4884.7528	0	8474	38871.6488	2
24	LA	TRUL	TRUL	Montgomery	Montgomery	1	23	24	11804	5473.98036	12523.08844	8444.08088	5882.25828	5882.25828	7432	57184.5258	2
25	LA	TRUL	TRUL	Montgomery	Montgomery	1	24	25	11804	6025.79532	12883.18676	12883.18676	5882.25828	5882.25828	7432	57184.5258	2
26	LA	TRUL	TRUL	Montgomery	Montgomery	1	25	26	13087.58218	5081.78180	12580.18180	8028.52584	5237.45080	6547.81180	7432	57184.5258	2
27	LA	TRUL	TRUL	Montgomery	Montgomery	1	26	27	15257.1504	12348.7794	14994.6	20341.3873	9945.18135	5882.1882	12318	524640.1514	3
28	LA	TRUL	TRUL	Montgomery	Montgomery	1	27	28	15257.1504	14811.2384	15984.2636	23353.2053	10933.43344	5882.1882	13417	11254.8598	3
29	LA	TRUL	TRUL	Montgomery	Montgomery	1	28	29	8634	3734.3984	10731.65236	15845.47084	4884.7528	0	8474	38871.6488	2
30	LA	TRUL	TRUL	Montgomery	Montgomery	1	29	30	11804	5473.98036	12523.08844	8444.08088	5882.25828	5882.25828	7432	57184.5258	2
31	LA	TRUL	TRUL	Montgomery	Montgomery	1	30	31	11804	6025.79532	12883.18676	12883.18676	5882.25828	5882.25828	7432	57184.5258	2
32	LA	TRUL	TRUL	Montgomery	Montgomery	1	31	32	13087.58218	5081.78180	12580.18180	8028.52584	5237.45080	6547.81180	7432	57184.5258	2
33	LA	TRUL	TRUL	Montgomery	Montgomery	1	32	33	15257.1504	12348.7794	14994.6	20341.3873	9945.18135	5882.1882	12318	524640.1514	3
34	LA	TRUL	TRUL	Montgomery	Montgomery	1	33	34	15257.1504	14811.2384	15984.2636	23353.2053	10933.43344	5882.1882	13417	11254.8598	3
35	LA	TRUL	TRUL	Montgomery	Montgomery	1	34	35	8634	3734.3984	10731.65236	15845.47084	4884.7528	0	8474	38871.6488	2
36	LA	TRUL	TRUL	Montgomery	Montgomery	1	35	36	11804	5473.98036	12523.08844	8444.08088	5882.25828	5882.25828	7432	57184.5258	2
37	LA	TRUL	TRUL	Montgomery	Montgomery	1	36	37	11804	6025.79532	12883.18676	12883.18676	5882.25828	5882.25828	7432	57184.5258	2
38	LA	TRUL	TRUL	Montgomery	Montgomery	1	37	38	13087.58218	5081.78180	12580.18180	8028.52584	5237.45080	6547.81180	7432	57184.5258	2
39	LA	TRUL	TRUL	Montgomery	Montgomery	1	38	39	15257.1504	12348.7794	14994.6	20341.3873	9945.18135	5882.1882	12318	524640.1514	3
40	LA	TRUL	TRUL	Montgomery	Montgomery	1	39	40	15257.1504	14811.2384	15984.2636	23353.2053	10933.43344	5882.1882	13417	11254.8598	3
41	LA	TRUL	TRUL	Montgomery	Montgomery	1	40	41	8634	3734.3984	10731.65236	15845.47084	4884.7528	0	8474	38871.6488	2
42	LA	TRUL	TRUL	Montgomery	Montgomery	1	41	42	11804	5473.98036	12523.08844	8444.08088	5882.25828	5882.25828	7432	57184.5258	2
43	LA	TRUL	TRUL	Montgomery	Montgomery	1	42	43	11804	6025.79532	12883.18676	12883.18676	5882.25828	5882.25828	7432	57184.5258	2
44	LA	TRUL	TRUL	Montgomery	Montgomery	1	43	44	13087.58218	5081.78180	12580.18180	8028.52584	5237.45080	6547.81180	7432	57184.5258	2
45	LA	TRUL	TRUL	Montgomery	Montgomery	1	44	45	15257.1504	12348.7794	14994.6	20341.3873	9945.18135	5882.1882	12318	524640.1514	3
46	LA	TRUL	TRUL	Montgomery	Montgomery	1	45	46	15257.1504	14811.2384	15984.2636	23353.2053	10933.43344	5882.1882	13417	11254.8598	3
47	LA	TRUL	TRUL	Montgomery	Montgomery	1	46	47	8634	3734.3984	10731.65236	15845.47084	4884.7528	0	8474	38871.6488	2
48	LA	TRUL	TRUL	Montgomery	Montgomery	1	47	48	11804	5473.98036	12523.08844	8444.08088	5882.25828	5882.25828	7432	57184.5258	2
49	LA	TRUL	TRUL	Montgomery	Montgomery	1	48	49	11804	6025.79532	12883.18676	12883.18676	5882.25828	5882.25828	7432	57184.5258	2
50	LA	TRUL	TRUL	Montgomery	Montgomery	1	49	50	13087.58218	5081.78180	12580.18180	8028.52584	5237.45080	6547.81180	7432	57184.5258	2
51	LA	TRUL	TRUL	Montgomery	Montgomery	1	50	51	15257.1504	12348.7794	14994.6	20341.3873	9945.18135	5882.1882	12318	524640.1514	3
52	LA	TRUL	TRUL	Montgomery	Montgomery	1	51	52	15257.1504	14811.2384	15984.2636	23353.2053	10933.43344	5882.1882	13417	11254.8598	3
53	LA	TRUL	TRUL	Montgomery	Montgomery	1	52	53	8634	3734.3984	10731.65236	15845.47084	4884.7528	0	8474	38871.6488	2
54	LA	TRUL	TRUL	Montgomery	Montgomery	1	53	54	11804	5473.98036	12523.08844	8444.08088	5882.25828	5882.25828	7432	57184.5258	2
55	LA	TRUL	TRUL	Montgomery	Montgomery	1	54	55	11804	6025.79532	12883.18676	12883.18676	5882.25828	5882.25828	7432	57184.5258	2
56	LA	TRUL	TRUL	Montgomery	Montgomery	1	55	56	13087.58218	5081.78180	12580.18180	8028.52584	5237.45080	6547.81180	7432	57184.5258	2
57	LA	TRUL	TRUL	Montgomery	Montgomery	1	56	57	15257.1504	12348.7794	14994.6	20341.3873	9945.18135	5882.1882	12318	524640.1514	3
58	LA	TRUL	TRUL	Montgomery	Montgomery	1	57	58	15257.1504	14811.2384	15984.2636	23353.2053	10933.43344	5882.1882	13417	11254.8598	3
59	LA	TRUL	TRUL	Montgomery	Montgomery	1	58	59	8634	3734.3984	10731.65236	15845.47084	4884.7528	0	8474	38871.6488	2
60	LA	TRUL	TRUL	Montgomery	Montgomery	1	59	60	11804	5473.98036	12523.08844	8444.08088	5882.25828	5882.25828	7432	57184.5258	2
61	LA	TRUL	TRUL	Montgomery	Montgomery	1	60	61	11804	6025.79532	12883.18676	12883.18676	5882.25828	5882.25828	7432	57184.5258	2
62	LA	TRUL	TRUL	Montgomery	Montgomery	1	61	62	13087.58218	5081.78180	12580.18180	8028.52584	5237.45080	6547.81180	7432	57184.5258	2
63	LA	TRUL	TRUL	Montgomery	Montgomery	1	62	63	15257.1504	12348.7794	14994.6	20341.3873	9945.18135	5882.1882	12318	524640.1514	3
64	LA	TRUL	TRUL	Montgomery	Montgomery	1	63	64	15257.1504	14811.2384	15984.2636	23353.2053	10933.43344	5882.1882	13417	11254.8598	3
65	LA	TRUL	TRUL	Montgomery	Montgomery	1	64	65	8634	3734.3984	10731.65236	15845.47084	4884.7528	0	8474	38871.6488	2
66	LA	TRUL	TRUL	Montgomery	Montgomery	1	65	66	11804	5473.98036	12523.08844	8444.08088	5882.25828	5882.25828	7432	57184.5258	2
67	LA	TRUL	TRUL	Montgomery	Montgomery	1	66	67	11804	6025.795							



Remove the redundant "Ismetro" column (Column C). Replace the final result in Column D with the original values from Column C.

Case_M	State	Ismetro	Areaname	County	Adult_C	Child_Count	Total_M	Housing_Cost	Food_Cost	Transportation	Healthcare_Cost	Other_Necessities_Cost	Childcare_Cost	Taxes	Total_Cost	Median_Family_Income
1	IA	TRUE	Montgomery	Autauga	1	0	1	8955.73378	3454.95712	10829.18076	5737.47884	4553.62344	0	6799	9129.0532	73030.40486
2	IA	TRUE	Montgomery	Autauga	1	1	2	12067.20249	5081.78788	15006.18188	8688.5844	6217.50886	8847.8298	7423	57194.1208	73030.40486
3	IA	TRUE	Montgomery	Autauga	1	2	3	12067.20249	5081.78788	12303.7772	13383.8138	3255.05886	15034.694	6779	78141.0008	73030.40486
4	IA	TRUE	Montgomery	Autauga	1	0	0	13197.1908	8993.27924	13483.186	13093.2026	8134.3741	38803.1887	13522	94183.5338	73030.40486
5	IA	TRUE	Montgomery	Autauga	1	0	3	15107.1356	13383.214	13734.5084	12425.7656	8942.26396	38803.1887	13468	208023.12	73030.40486
6	IA	TRUE	Montgomery	Autauga	1	0	2	13180.2542	6330.05246	12853.8698	13474.9998	5083.78524	0	6217	50071.0884	73030.40486
7	IA	TRUE	Montgomery	Autauga	1	1	0	12067.20249	5081.78788	13088.112	20097.8732	12288.8684	8447.8298	9640	72773.6764	73030.40486
8	IA	TRUE	Montgomery	Autauga	1	2	4	12067.20249	5081.78788	14733.5128	27318.1128	7696.3484	15034.694	11008	86077.8896	73030.40486
9	IA	TRUE	Montgomery	Autauga	1	0	0	13197.1908	12108.7724	14944.4	20345.1671	8845.18176	38803.1887	13218	204640.1314	73030.40486
10	IA	TRUE	Montgomery	Autauga	1	0	0	15107.1356	14813.1884	23884.8648	23934.3812	10934.42584	38803.1887	14417	212184.5696	73030.40486
11	IA	TRUE	Montgomery	Autauga	1	0	1	8913	3754.28484	18731.65156	5581.47564	4487.7518	0	8458	38538.8844	73030.40486
12	IA	TRUE	Montgomery	Autauga	1	1	2	13384	5473.5888	17521.5888	8445.0888	9842.3408	5842.7432	7887	50036.3888	73030.40486
13	IA	TRUE	Montgomery	Autauga	1	2	2	12364	8033.7612	12884.3352	12384.5144	6914.98688	22448.1992	9478	78488.3672	73030.40486
14	IA	TRUE	Montgomery	Autauga	1	0	0	14988	13609.484	14452.9648	14345.8832	3787.57008	18238.04	12988	83550.8768	73030.40486
15	IA	TRUE	Montgomery	Autauga	1	0	0	14988	13609.484	14773.144	14888.1488	18176.2276	18238.04	14444	136069.544	73030.40486
16	IA	TRUE	Montgomery	Autauga	1	0	2	8678	8880.54076	12818.28	11185.9998	5011.02188	0	7818	52941.5828	73030.40486
17	IA	TRUE	Montgomery	Autauga	1	1	0	13384	8573.15088	16214.2784	14027.488	7874.8074	9842.7142	9343	78145.6578	73030.40486
18	IA	TRUE	Montgomery	Autauga	1	2	4	13384	5473.5888	14568.1084	14888.054	18884.1176	15348.1992	9082	87547.2868	73030.40486
19	IA	TRUE	Montgomery	Autauga	1	2	3	14988	13194.556	20673.3152	37378.5408	33179.1738	18238.04	13373	204460.8738	73030.40486
20	IA	TRUE	Montgomery	Autauga	1	0	0	14988	14813.1884	23778.8648	23888.8648	11241.8818	38803.1887	14444	212184.5696	73030.40486
21	IA	TRUE	Montgomery	Autauga	1	0	1	5818	3337.0324	18880.788	5080.7808	3394.3688	0	5418	34433.632	73030.40486
22	IA	TRUE	Montgomery	Autauga	1	1	0	7778	4775.688	13336.4836	8678.9348	4545.1114	8846.7818	3418	42197.4288	73030.40486
23	IA	TRUE	Montgomery	Autauga	1	2	0	1276	6880.78832	13834.3684	11385.12156	5156.2096	15844.6768	6245	63197.8978	73030.40486
24	IA	TRUE	Montgomery	Autauga	1	0	0	9872	9124.6284	12484.588	14014.2936	6885.22532	15734.3484	7543	73878.248	73030.40486
25	IA	TRUE	Montgomery	Autauga	1	0	0	9872	1353.8688	42518.8248	38815.671	3881.2772	15734.3484	7204	78145.6578	73030.40486
26	IA	TRUE	Montgomery	Autauga	1	0	2	5804	5934.5188	12713.8432	11372.5808	4289.58144	0	6812	48485.416	73030.40486
27	IA	TRUE	Montgomery	Autauga	1	1	0	7778	7885.7328	15273.74	14181.748	3475.85132	8846.7818	3388	68143.7112	73030.40486
28	IA	TRUE	Montgomery	Autauga	1	2	2	7778	8454.4736	14811.884	38815.8128	4187.02096	15844.6768	8852	78488.3672	73030.40486
29	IA	TRUE	Montgomery	Autauga	1	0	0	1378	11423.842	13778.7796	3881.3832	3642.84772	13778.7796	8714	44788.5314	73030.40486
30	IA	TRUE	Montgomery	Autauga	1	0	0	9872	1353.8688	14809.788	23812.2576	8846.42096	15734.3484	8678	86487.3888	73030.40486
31	IA	TRUE	Montgomery	Autauga	1	0	1	7873.81654	3000.1884	13446.4844	5845.4784	3884.88532	0	6264	34871.75	36444.0888
32	IA	TRUE	Montgomery	Autauga	1	1	3	1078.52368	4485.5818	12737.818	3881.738	1172.58072	3180.5884	6458	52133.0272	36444.0888
33	IA	TRUE	Montgomery	Autauga	1	2	0	1078.52368	4485.5818	23884.8648	31786.48	31786.48	31786.48	8245	88550.5248	36444.0888
34	IA	TRUE	Montgomery	Autauga	1	0	0	12757.2832	8786.0632	14034.388	14772.6548	7781.72712	38803.1887	10579	85127.244	36444.0888
35	IA	TRUE	Montgomery	Autauga	1	0	0	13777.2832	16795.6832	14034.388	14772.6548	38803.1887	38803.1887	10579	85127.244	36444.0888
36	IA	TRUE	Montgomery	Autauga	1	0	2	8580.8824	5582.24288	14034.388	14772.6548	31786.48	31786.48	11888.272	36444.0888	36444.0888
37	IA	TRUE	Montgomery	Autauga	1	1	3	1078.52368	4485.5818	14034.388	14772.6548	31786.48	31786.48	10579	85127.244	36444.0888
38	IA	TRUE	Montgomery	Autauga	1	2	0	1078.52368	4485.5818	23884.8648	31786.48	31786.48	31786.48	8245	88550.5248	36444.0888
39	IA	TRUE	Montgomery	Autauga	1	0	0	12757.2832	8786.0632	14034.388	14772.6548	38803.1887	38803.1887	10579	85127.244	36444.0888
40	IA	TRUE	Montgomery	Autauga	1	0	0	13777.2832	16795.6832	14034.388	14772.6548	38803.1887	38803.1887	10579	85127.244	36444.0888
41	IA	TRUE	Montgomery	Autauga	1	0	1	7873.81654	3000.1884	13446.4844	5845.4784	3884.88532	0	6264	34871.75	36444.0888
42	IA	TRUE	Montgomery	Autauga	1	1	3	1078.52368	4485.5818	12737.818	3881.738	1172.58072	3180.5884	6458	52133.0272	36444.0888
43	IA	TRUE	Montgomery	Autauga	1	2	0	1078.52368	4485.5818	23884.8648	31786.48	31786.48	31786.48	8245	88550.5248	36444.0888
44	IA	TRUE	Montgomery	Autauga	1	0	0	12757.2832	8786.0632	14034.388	14772.6548	38803.1887	38803.1887	10579	85127.244	36444.0888
45	IA	TRUE	Montgomery	Autauga	1	0	0	13777.2832	16795.6832	14034.388	14772.6548	38803.1887	38803.1887	10579	85127.244	36444.0888
46	IA	TRUE	Montgomery	Autauga	1	0	2	8580.8824	5582.24288	14034.388	14772.6548	31786.48	31786.48	11888.272	36444.0888	36444.0888
47	IA	TRUE	Montgomery	Autauga	1	1	3	1078.52368	4485.5818	14034.388	14772.6548	31786.48	31786.48	10579	85127.244	36444.0888
48	IA	TRUE	Montgomery	Autauga	1	2	0	1078.52368	4485.5818	23884.8648	31786.48	31786.48	31786.48	8245	88550.5248	36444.0888
49	IA	TRUE	Montgomery	Autauga	1	0	0	12757.2832	8786.0632	14034.388	14772.6548	38803.1887	38803.1887	10579	85127.244	36444.0888
50	IA	TRUE	Montgomery	Autauga	1	0	0	13777.2832	16795.6832	14034.388	14772.6548	38803.1887	38803.1887	10579	85127.244	36444.0888
51	IA	TRUE	Montgomery	Autauga	1	0	1	7873.81654	3000.1884	13446.4844	5845.4784	3884.88532	0	6264	34871.75	36444.0888
52	IA	TRUE	Montgomery	Autauga	1	1	3	1078.52368	4485.5818	12737.818	3881.738	1172.58072	3180.5884	6458	52133.0272	36444.0888
53	IA	TRUE	Montgomery	Autauga	1	2	0	1078.52368	4485.5818	23884.8648	31786.48	31786.48	31786.48	8245	88550.5248	36444.0888
54	IA	TRUE	Montgomery	Autauga	1	0	0	12757.2832	8786.0632	14034.388	14772.6548	38803.1887	38803.1887	10579	85127.244	36444.0888
55	IA	TRUE	Montgomery	Autauga	1	0	0	13777.2832	16795.6832	14034.388	14772.6548	38803.1887	38803.1887	10579	85127.244	36444.0888
56	IA	TRUE	Montgomery	Autauga	1	0	2	8580.8824	5582.24288	14034.388	14772.6548	31786.48	31786.48	11888.272	36444.0888	36444.0888
57	IA	TRUE	Montgomery	Autauga	1	1	3	1078.52368	4485.5818	14034.388	14772.6548	31786.48	31786.48	10579	85127.244	36444.0888
58	IA	TRUE	Montgomery	Autauga	1	2	0	1078.52368	4485.5818	23884.8648	31786.48	31786.48	31786.48	8245	88550.5248	36444.0888
59	IA	TRUE	Montgomery	Autauga	1	0	0	12757.2832	8786.0632	14034.388	14772.6548	38803.1887	38803.1887	10579	85127.244	36444.0888
60	IA	TRUE	Montgomery	Autauga	1	0	0	13777.2832	16795.6832	14034.388	14772.6548	38803.1887	38803.1887	10579	85127.244	36444.0888
61	IA	TRUE	Montgomery	Autauga	1	0	1	7873.81654	3000.1884	13446.4844	5845.4784	3884.88532	0	6264	34871.75	36444.0888
62	IA	TRUE	Montgomery	Autauga	1	1	3	1078.52368	4485.5818	12737.818	3881.738	1172.58072	3180.5884	6458	52133.0272	36444.0888
63	IA	TRUE	Montgomery	Autauga	1	2	0	1078.52368	4485.5818	23884.8648	31786.48	31786.48	31786.48	8245	88550.5248	36444.0888
64	IA	TRUE	Montgomery	Autauga	1	0	0	12757.2832	8786.0632	14034.388	14772.6548	38803.1887	38803.1887	10579	85127.244	36444.0888
65	IA	TRUE	Montgomery	Autauga	1	0	0	13777.2832	16795.6832	14034.388	14772.6548	38803.1887	38803.1887	10579	85127.244	36444.0888
66	IA	TRUE	Montgomery	Autauga	1	0	2	8580.8824	5582.24288	14034.388	14772.6548	31786.48	31786.48	11888.272	36444.0888	36444.0888
67	IA	TRUE	Montgomery	Autauga	1	1	3	1078.52368	4485.5818	14034.388	14772.6548	31786.48	31786.48	10579	85127.244	36444.0888
68	IA	TRUE	Montgomery	Autauga	1	2	0	1078.52368	4485.5818	23884.8648	31786.48	31786.48				



After:

The 'SUBSTITUTE()' function is used to substitute the word "County" with a blank space in the given text.

The screenshot shows an Excel spreadsheet with a formula bar at the top containing the formula `=SUBSTITUTE(County," " & ")`. A red box highlights the formula bar and the 'County' column in the data table below. The data table has columns: Case\_id, State, Jurisdiction, AreaName, County, Adult\_C, Child\_Count, Total\_M, Housing\_Cost, Food\_Cost, Transportation, Healthcare\_Cost, Other\_Necessities\_Cost, Childcare\_Cost, and TaxesTotal. The 'County' column contains various county names, some of which are highlighted in red.

Case_id	State	Jurisdiction	AreaName	County	Adult_C	Child_Count	Total_M	Housing_Cost	Food_Cost	Transportation	Healthcare_Cost	Other_Necessities_Cost	Childcare_Cost	TaxesTotal		
1	AL	1901	Montgomery	Montgomery	Autauga	1	0	1	8505.12676	2454.91713	18835.18076	5737.47888	4333.81344	0.0000	305	
2	AL	1901	Montgomery	Montgomery	Autauga	1	1	2	12067.5024	3881.70788	13588.15388	8059.53664	6215.45808	6187.8296	7422	171
3	AL	1901	Montgomery	Montgomery	Autauga	1	2	4	12067.5024	7868.20208	12881.43336	16776.45808	12824.088	12824.088	8776	361
4	AL	1901	Montgomery	Montgomery	Autauga	1	3	4	15257.1504	9952.23336	13452.186	14552.3316	9134.1562	18852.2882	13332	341
5	AL	1901	Montgomery	Montgomery	Autauga	1	4	5	15257.1504	12182.254	13784.5884	17425.7888	18852.2882	13489	39	
6	AL	1901	Montgomery	Montgomery	Autauga	2	0	2	10380.2942	6344.01936	12681.8868	12474.95888	18852.2882	0.0000	633	
7	AL	1901	Montgomery	Montgomery	Autauga	2	1	3	11807.5624	7883.11888	13789.111	14381.0372	7128.36844	6187.8296	9488	357
8	AL	1901	Montgomery	Montgomery	Autauga	2	2	4	12067.5024	9886.03368	18721.6036	17208.1128	7884.1188	12824.088	12389	389
9	AL	1901	Montgomery	Montgomery	Autauga	2	3	5	15257.1504	12182.254	14594.6	16776.45808	9078.22776	18852.2882	13215	394
10	AL	1901	Montgomery	Montgomery	Autauga	2	4	6	15257.1504	14977.3364	15864.569	21165.3972	30853.42564	18852.2882	13413	1317
11	AL	1901	Montgomery	Montgomery	Autauga	2	5	7	1816	6794.2884	80745.45264	5084.87888	4467.7128	0.0000	489	
12	AL	1901	Montgomery	Montgomery	Autauga	1	0	1	11064	5473.96836	13522.91844	8444.00888	5952.70338	5962.7142	7087	555
13	AL	1901	Montgomery	Montgomery	Autauga	1	1	2	11064	8822.27812	12088.03872	11294.51844	6814.88688	11488.1982	9178	243
14	AL	1901	Montgomery	Montgomery	Autauga	1	2	3	14888	10076.404	14451.6648	14545.0512	9635.51838	18236.84	12586	341
15	AL	1901	Montgomery	Montgomery	Autauga	1	3	4	14888	13696.764	13773.304	16959.588	10778.7888	18736.84	13434	341
16	AL	1901	Montgomery	Montgomery	Autauga	1	4	5	18676	14885.5676	12888.26	11386.95888	1811.21588	0.0000	329	
17	AL	1901	Montgomery	Montgomery	Autauga	2	0	2	11064	8475.15888	14214.2784	14037.486	3070.8634	5962.7142	9341	70
18	AL	1901	Montgomery	Montgomery	Autauga	2	1	3	11064	10715.88884	14788.3384	16888.033	1788.13276	13348.1982	10887	181
19	AL	1901	Montgomery	Montgomery	Autauga	2	2	4	14888	13071.918	15031.1112	18126.5488	18176.1188	18236.84	13178	884
20	AL	1901	Montgomery	Montgomery	Autauga	2	3	5	14888	16071.2776	15114.9818	17289.0684	11241.48284	18236.84	13443	111
21	AL	1901	Montgomery	Montgomery	Autauga	2	4	6	18676	18227.08836	13273.304	16859.7008	1478.7888	0.0000	36	
22	AL	1901	Montgomery	Montgomery	Autauga	2	5	7	18676	14885.5676	12888.26	11386.95888	1811.21588	0.0000	329	
23	AL	1901	Montgomery	Montgomery	Autauga	2	6	8	11064	10715.8888	14214.2784	14037.486	3070.8634	5962.7142	9341	70
24	AL	1901	Montgomery	Montgomery	Autauga	2	7	9	11064	13071.918	15031.1112	18126.5488	18176.1188	18236.84	13178	884
25	AL	1901	Montgomery	Montgomery	Autauga	2	8	10	14888	16071.2776	15114.9818	17289.0684	11241.48284	18236.84	13443	111
26	AL	1901	Montgomery	Montgomery	Autauga	2	9	11	18676	18227.08836	13273.304	16859.7008	1478.7888	0.0000	36	
27	AL	1901	Montgomery	Montgomery	Autauga	2	10	12	7776	4778.568	13416.46284	8485.0588	4548.1324	4845.73526	5426	117
28	AL	1901	Montgomery	Montgomery	Autauga	1	0	1	7776	6888.73812	12096.7944	11308.1336	5300.3388	12844.07888	4279	81
29	AL	1901	Montgomery	Montgomery	Autauga	1	1	2	9672	1024.6284	12484.2888	14114.2888	1883.2112	13378.2488	7641	171
30	AL	1901	Montgomery	Montgomery	Autauga	1	2	3	9672	13413.96884	12530.6248	18025.4572	7848.27712	13378.2488	7294	79
31	AL	1901	Montgomery	Montgomery	Autauga	1	3	4	9672	16071.2776	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
32	AL	1901	Montgomery	Montgomery	Autauga	1	4	5	7776	7888.17588	13271.84	14582.544	5482.73526	13378.2488	7294	79
33	AL	1901	Montgomery	Montgomery	Autauga	1	5	6	7776	10934.47588	13811.864	16991.812	6207.87812	13344.07888	6852	74
34	AL	1901	Montgomery	Montgomery	Autauga	1	6	7	9672	13421.2962	12181.7796	18881.8812	1492.88712	13378.2488	8718	84
35	AL	1901	Montgomery	Montgomery	Autauga	1	7	8	9672	16071.2776	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
36	AL	1901	Montgomery	Montgomery	Autauga	1	8	9	9672	18227.08836	13273.304	16859.7008	1478.7888	0.0000	36	
37	AL	1901	Montgomery	Montgomery	Autauga	1	9	10	9672	20388.1888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
38	AL	1901	Montgomery	Montgomery	Autauga	1	10	11	9672	22549.2888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
39	AL	1901	Montgomery	Montgomery	Autauga	1	11	12	9672	24710.3888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
40	AL	1901	Montgomery	Montgomery	Autauga	1	12	13	9672	26871.4888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
41	AL	1901	Montgomery	Montgomery	Autauga	1	13	14	9672	29032.5888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
42	AL	1901	Montgomery	Montgomery	Autauga	1	14	15	9672	31193.6888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
43	AL	1901	Montgomery	Montgomery	Autauga	1	15	16	9672	33354.7888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
44	AL	1901	Montgomery	Montgomery	Autauga	1	16	17	9672	35515.8888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
45	AL	1901	Montgomery	Montgomery	Autauga	1	17	18	9672	37676.9888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
46	AL	1901	Montgomery	Montgomery	Autauga	1	18	19	9672	39838.0888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
47	AL	1901	Montgomery	Montgomery	Autauga	1	19	20	9672	41999.1888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
48	AL	1901	Montgomery	Montgomery	Autauga	1	20	21	9672	44160.2888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
49	AL	1901	Montgomery	Montgomery	Autauga	1	21	22	9672	46321.3888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
50	AL	1901	Montgomery	Montgomery	Autauga	1	22	23	9672	48482.4888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
51	AL	1901	Montgomery	Montgomery	Autauga	1	23	24	9672	50643.5888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
52	AL	1901	Montgomery	Montgomery	Autauga	1	24	25	9672	52804.6888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
53	AL	1901	Montgomery	Montgomery	Autauga	1	25	26	9672	54965.7888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
54	AL	1901	Montgomery	Montgomery	Autauga	1	26	27	9672	57126.8888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
55	AL	1901	Montgomery	Montgomery	Autauga	1	27	28	9672	59287.9888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
56	AL	1901	Montgomery	Montgomery	Autauga	1	28	29	9672	61449.0888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
57	AL	1901	Montgomery	Montgomery	Autauga	1	29	30	9672	63610.1888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
58	AL	1901	Montgomery	Montgomery	Autauga	1	30	31	9672	65771.2888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
59	AL	1901	Montgomery	Montgomery	Autauga	1	31	32	9672	67932.3888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
60	AL	1901	Montgomery	Montgomery	Autauga	1	32	33	9672	70093.4888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
61	AL	1901	Montgomery	Montgomery	Autauga	1	33	34	9672	72254.5888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
62	AL	1901	Montgomery	Montgomery	Autauga	1	34	35	9672	74415.6888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
63	AL	1901	Montgomery	Montgomery	Autauga	1	35	36	9672	76576.7888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
64	AL	1901	Montgomery	Montgomery	Autauga	1	36	37	9672	78737.8888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
65	AL	1901	Montgomery	Montgomery	Autauga	1	37	38	9672	80898.9888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
66	AL	1901	Montgomery	Montgomery	Autauga	1	38	39	9672	83060.0888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
67	AL	1901	Montgomery	Montgomery	Autauga	1	39	40	9672	85221.1888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
68	AL	1901	Montgomery	Montgomery	Autauga	1	40	41	9672	87382.2888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
69	AL	1901	Montgomery	Montgomery	Autauga	1	41	42	9672	89543.3888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
70	AL	1901	Montgomery	Montgomery	Autauga	1	42	43	9672	91704.4888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
71	AL	1901	Montgomery	Montgomery	Autauga	1	43	44	9672	93865.5888	12530.6248	18025.4572	1088.56812	13378.2488	7294	79
72	AL	1901	Montgomery	Montgomery	Autauga	1	44	45	9672	96026.6888	12530.6248	18025.4572	1088.568			

After removing that column, the resulting data should now appear as follows:

Case Id	State	Isrcty	Arenaname	County	Adult_Count	Child_Count	Total_Member_Count	Housing_Cost	Food_Cost	Transportation_Cost	Healthcare_Cost	Other_Necessities_Cost	Childcare_Cost	Taxes	Total_Cost	Med
1	IL	TRUL	Montgomery	Alutaga	1	0	1	8905.7089	3424.3112	18025.1016	5731.4794	4113.4144	0	8781.3011	70534.9499	70534.9499
2	IL	TRUL	Montgomery	Alutaga	1	0	1	12064.3039	3091.2038	11038.2328	8404.1888	8417.4188	0	1147.4208	31794.4136	31794.4136
3	IL	TRUL	Montgomery	Alutaga	1	0	1	12064.3039	3410.2038	11361.7772	11361.6318	7075.82418	0	12474.8794	35343.8188	35343.8188
4	IL	TRUL	Montgomery	Alutaga	1	0	1	13257.2384	3893.2314	14653.388	14653.7878	9034.7662	18881.1892	11513	46333.5328	46333.5328
5	IL	TRUL	Montgomery	Alutaga	1	0	1	12503.2384	12382.214	11344.5884	11343.7854	8042.3496	18881.1892	14849	108824.52	108824.52
6	IL	TRUL	Montgomery	Alutaga	1	0	1	13036.2942	1134.81438	11811.8888	11474.3588	9031.3814	0	8237	55071.8884	55071.8884
7	IL	TRUL	Montgomery	Alutaga	1	0	1	12064.3039	7083.1888	11888.112	14477.0172	7128.8884	1117.2508	8488	47774.4794	47774.4794
8	IL	TRUL	Montgomery	Alutaga	1	0	1	12064.3039	3684.2508	14312.8878	11323.1118	7180.1484	0	2474.804	41187.8888	41187.8888
9	IL	TRUL	Montgomery	Alutaga	1	0	1	13257.2384	11888.7384	14884.8	20041.1872	9046.3078	18881.1892	11570	104440.2524	104440.2524
10	IL	TRUL	Montgomery	Alutaga	1	0	1	13257.2384	14877.088	15884.288	21181.2852	18933.41508	18881.1892	14917	113348.8888	113348.8888
11	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	8000	1714.2048	10731.8258	5093.47984	4467.7518	0	6450	30758.8884	30758.8884
12	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	17084	1478.8888	11522.8184	8414.8888	9084.1888	0	1184.7542	30914.8888	30914.8888
13	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11884	8002.21812	11884.3112	11294.1184	6504.8888	0	15441.1892	34788.8888	34788.8888
14	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	18888.408	11415.0812	14145.0812	13017.5508	0	18130.1288	39808.8798	39808.8798
15	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11877.888	14888.888	11176.1278	0	18130.1288	40888.8884	40888.8884
16	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	8000	1888.5408	11888.28	11188.5568	5011.82158	0	7830	34421.5568	34421.5568
17	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	17084	8478.8888	14145.0812	14017.488	7878.8888	0	1184.7542	30914.8888	30914.8888
18	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
19	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
20	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
21	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
22	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
23	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
24	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
25	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
26	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
27	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
28	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
29	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
30	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
31	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
32	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
33	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
34	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
35	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
36	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
37	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
38	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
39	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
40	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
41	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
42	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
43	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
44	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
45	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
46	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
47	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
48	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
49	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
50	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
51	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
52	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
53	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
54	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
55	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
56	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
57	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
58	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
59	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
60	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
61	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
62	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
63	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
64	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
65	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
66	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
67	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11888.888	11888.888	11888.888	0	11888.888	30914.8888	30914.8888
68	IL	TRUL	DePue Parkside Pkwy	Alutaga	1	0	1	11888	11888.888	11						