FPPD Practice 25th November 2024 Results

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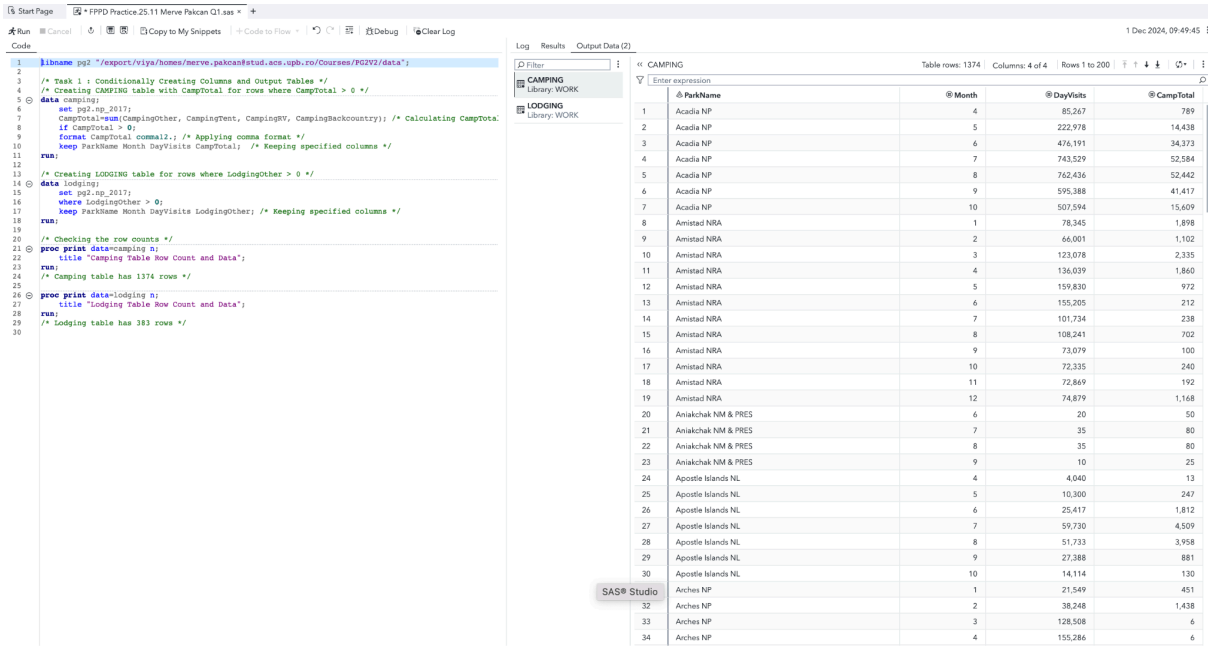
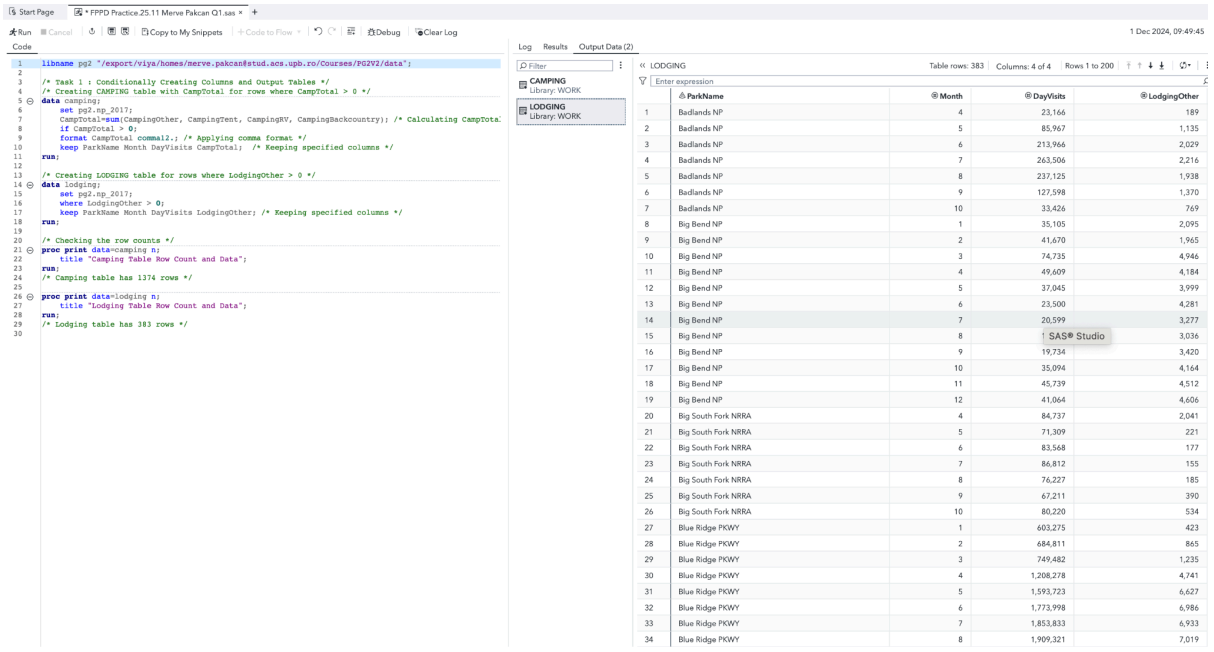
Task 1: Conditionally Creating Columns and Output Tables



```
libname pg2 "/export/viya/homes/merve.pakcan@stud.acs.upb.ro/Courses/PG2V2/data";

/* Task 1 : Conditionally Creating Columns and Output Tables */
/* Creating CAMPING table with CampTotal for rows where CampTotal > 0 */
data camping;
    set pg2.np_2017;
    CampTotal=sum(CampingOther, CampingTent, CampingRV, CampingBackcountry); /* Calculating CampTotal */
    if CampTotal > 0;
    format CampTotal comma12.; /* Applying comma format */
    keep ParkName Month DayVisits CampTotal;  /* Keeping specified columns */
run;

/* Creating LODGING table for rows where LodgingOther > 0 */
data lodging;
    set pg2.np_2017;
    where LodgingOther > 0;
    keep ParkName Month DayVisits LodgingOther; /* Keeping specified columns */
run;

/* Checking the row counts */
proc print data=camping n;
    title "Camping Table Row Count and Data";
run;
/* Camping table has 1374 rows */

proc print data=lodging n;
    title "Lodging Table Row Count and Data";
run;
/* Lodging table has 383 rows */
```

CAMPING — Table rows: 1374 | Columns: 4 of 4 | Rows 1 to 200

	ParkName	Month	DayVisits	CampTotal
1	Acadia NP	4	85,267	789
2	Acadia NP	5	222,978	14,438
3	Acadia NP	6	476,191	34,373
4	Acadia NP	7	743,529	52,584
5	Acadia NP	8	762,436	52,442
6	Acadia NP	9	595,388	41,417
7	Acadia NP	10	507,594	15,609
8	Amistad NRA	1	78,345	1,898
9	Amistad NRA	2	66,001	1,102
10	Amistad NRA	3	123,078	2,335
11	Amistad NRA	4	136,039	1,860
12	Amistad NRA	5	159,830	972
13	Amistad NRA	6	155,205	212
14	Amistad NRA	7	101,734	238
15	Amistad NRA	8	108,241	702
16	Amistad NRA	9	73,079	100
17	Amistad NRA	10	72,335	240
18	Amistad NRA	11	72,869	192
19	Amistad NRA	12	74,879	1,168
20	Aniakchak NM & PRES	6	20	50
21	Aniakchak NM & PRES	7	35	80
22	Aniakchak NM & PRES	8	35	80
23	Aniakchak NM & PRES	9	10	25
24	Apostle Islands NL	4	4,040	13
25	Apostle Islands NL	5	10,300	247
26	Apostle Islands NL	6	25,417	1,812
27	Apostle Islands NL	7	59,730	4,509
28	Apostle Islands NL	8	51,733	3,958
29	Apostle Islands NL	9	27,388	881
30	Apostle Islands NL	10	14,114	130
31	Arches NP	1	21,549	451
32	Arches NP	2	38,248	1,438
33	Arches NP	3	128,508	6
34	Arches NP	4	155,286	6



LODGING — Table rows: 383 | Columns: 4 of 4 | Rows 1 to 200

	ParkName	Month	DayVisits	LodgingOther
1	Badlands NP	4	23,166	189
2	Badlands NP	5	85,967	1,135
3	Badlands NP	6	213,966	2,029
4	Badlands NP	7	263,506	2,216
5	Badlands NP	8	237,125	1,938
6	Badlands NP	9	127,598	1,370
7	Badlands NP	10	33,426	769
8	Big Bend NP	1	35,105	2,095
9	Big Bend NP	2	41,670	1,965
10	Big Bend NP	3	74,735	4,946
11	Big Bend NP	4	49,609	4,184
12	Big Bend NP	5	37,045	3,999
13	Big Bend NP	6	23,500	4,281
14	Big Bend NP	7	20,599	3,277
15	Big Bend NP	8	19,734	3,036
16	Big Bend NP	9	19,734	3,420
17	Big Bend NP	10	35,094	4,164
18	Big Bend NP	11	45,739	4,512
19	Big Bend NP	12	41,064	4,606
20	Big South Fork NRRA	4	84,737	2,041
21	Big South Fork NRRA	5	71,309	221
22	Big South Fork NRRA	6	83,568	177
23	Big South Fork NRRA	7	86,812	155
24	Big South Fork NRRA	8	76,227	185
25	Big South Fork NRRA	9	67,211	390
26	Big South Fork NRRA	10	80,220	534
27	Blue Ridge PKWY	1	603,275	423
28	Blue Ridge PKWY	2	684,811	865
29	Blue Ridge PKWY	3	749,482	1,235
30	Blue Ridge PKWY	4	1,208,278	4,741
31	Blue Ridge PKWY	5	1,593,723	6,627
32	Blue Ridge PKWY	6	1,773,998	6,986
33	Blue Ridge PKWY	7	1,853,833	6,933
34	Blue Ridge PKWY	8	1,909,321	7,019

1373	Zion NP	11	222,069	17,968
1374	Zion NP	12	138,866	4,504
N = 1374				

382	Zion NP	11	222,069	7,191
383	Zion NP	12	138,866	5,810
N = 383				

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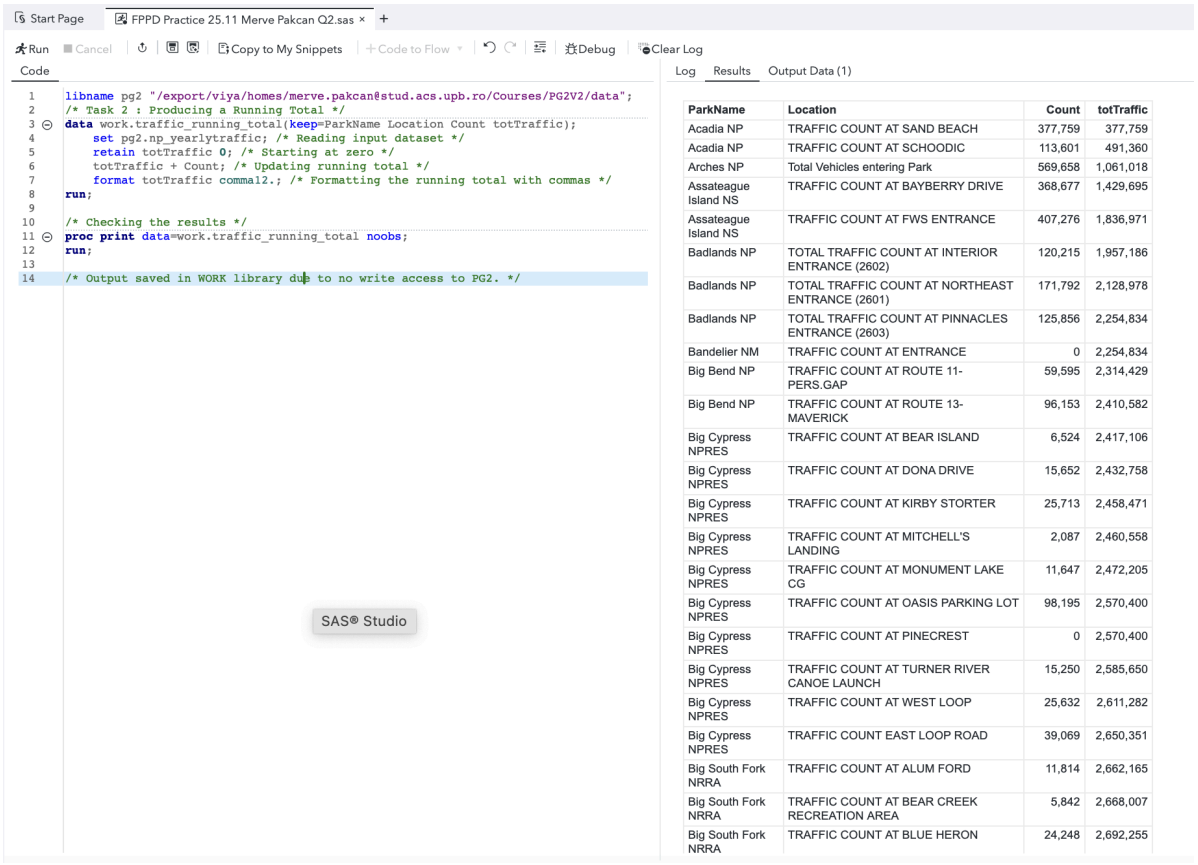
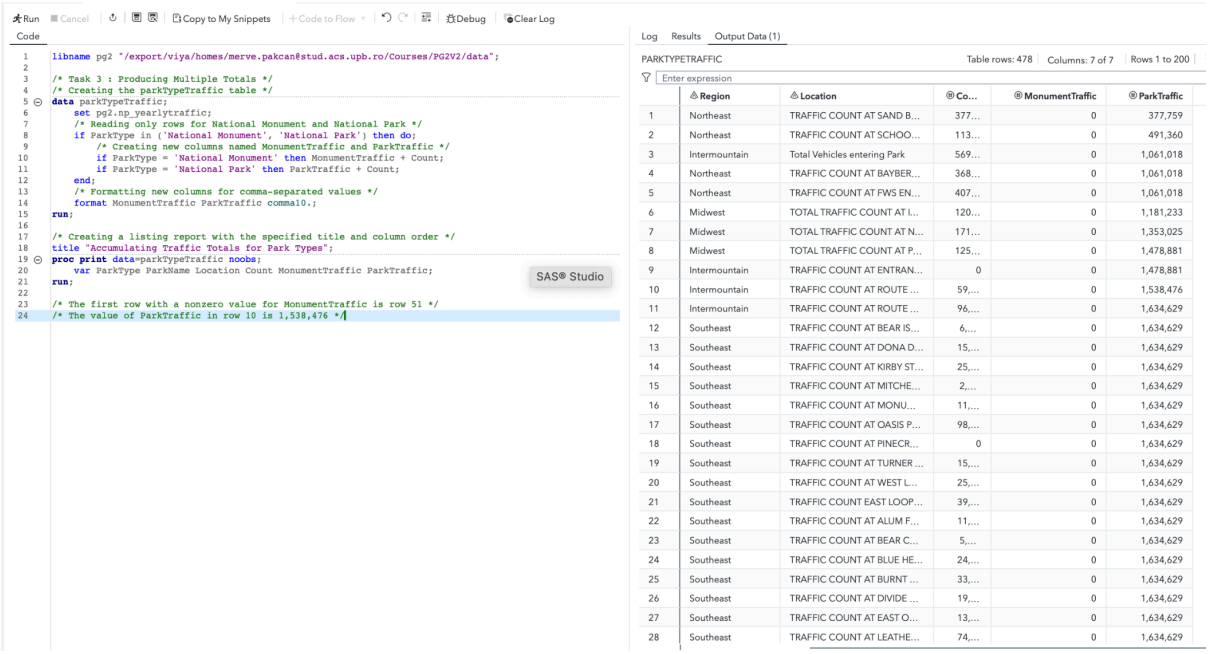
Task 2: Producing a Running Total



ParkName	Location	Count	totTraffic
Acadia NP	TRAFFIC COUNT AT SAND BEACH	377,759	377,759
Acadia NP	TRAFFIC COUNT AT SCHOODIC	113,601	491,360
Arches NP	Total Vehicles entering Park	569,658	1,061,018
Assateague Island NS	TRAFFIC COUNT AT BAYBERRY DRIVE	368,677	1,429,695
Assateague Island NS	TRAFFIC COUNT AT FWS ENTRANCE	407,276	1,836,971
Badlands NP	TOTAL TRAFFIC COUNT AT INTERIOR ENTRANCE (2602)	120,215	1,957,186
Badlands NP	TOTAL TRAFFIC COUNT AT NORTHEAST ENTRANCE (2601)	171,792	2,128,978
Badlands NP	TOTAL TRAFFIC COUNT AT PINNACLES ENTRANCE (2603)	125,856	2,254,834
Bandelier NM	TRAFFIC COUNT AT ENTRANCE	0	2,254,834
Big Bend NP	TRAFFIC COUNT AT ROUTE 11-PERS.GAP	59,595	2,314,429
Big Bend NP	TRAFFIC COUNT AT ROUTE 13-MAVERICK	96,153	2,410,582
Big Cypress NPRES	TRAFFIC COUNT AT BEAR ISLAND	6,524	2,417,106
Big Cypress NPRES	TRAFFIC COUNT AT DONA DRIVE	15,652	2,432,758
Big Cypress NPRES	TRAFFIC COUNT AT KIRBY STORTER	25,713	2,458,471
Big Cypress NPRES	TRAFFIC COUNT AT MITCHELL'S LANDING	2,087	2,460,558
Big Cypress NPRES	TRAFFIC COUNT AT MONUMENT LAKE CG	11,647	2,472,205
Big Cypress NPRES	TRAFFIC COUNT AT OASIS PARKING LOT	98,195	2,570,400
Big Cypress NPRES	TRAFFIC COUNT AT PINECREST	0	2,570,400
Big Cypress NPRES	TRAFFIC COUNT AT TURNER RIVER CANOE LAUNCH	15,250	2,585,650
Big Cypress NPRES	TRAFFIC COUNT AT WEST LOOP	25,632	2,611,282
Big Cypress NPRES	TRAFFIC COUNT EAST LOOP ROAD	39,069	2,650,351
Big South Fork NRRA	TRAFFIC COUNT AT ALUM FORD	11,814	2,662,165
Big South Fork NRRA	TRAFFIC COUNT AT BEAR CREEK RECREATION AREA	5,842	2,668,007
Big South Fork NRRA	TRAFFIC COUNT AT BLUE HERON	24,248	2,692,255

Task 3: Producing Multiple Totals



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libname pg2 "/export/viya/homes/merve.pakcan@stud.acs.upb.ro/Courses/PG2V2/data";

/* Task 3 : Producing Multiple Totals */
/* Creating the parkTypeTraffic table */
data parkTypeTraffic;
    set pg2.np_yearlytraffic;
    /* Reading only rows for National Monument and National Park */
    if ParkType in ('National Monument', 'National Park') then do;
        /* Creating new columns named MonumentTraffic and ParkTraffic */
        if ParkType = 'National Monument' then MonumentTraffic + Count;
        if ParkType = 'National Park' then ParkTraffic + Count;
    end;
    /* Formatting new columns for comma-separated values */
    format MonumentTraffic ParkTraffic comma10.;
run;

/* Creating a listing report with the specified title and column order */
title "Accumulating Traffic Totals for Park Types";
proc print data=parkTypeTraffic noobs;
    var ParkType ParkName Location Count MonumentTraffic ParkTraffic;
run;

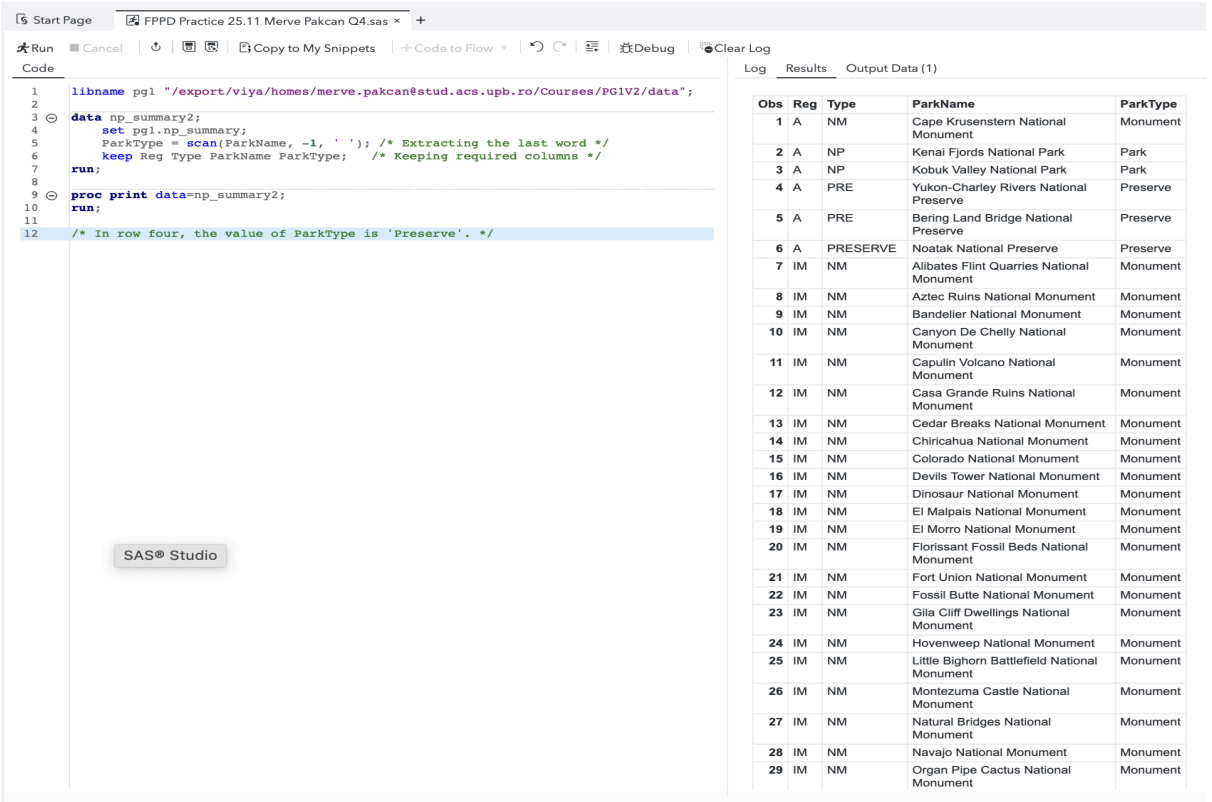
/* The first row with a nonzero value for MonumentTraffic is row 51 */
/* The value of ParkTraffic in row 10 is 1,538,476 */
```

PARKTYPETRAFFIC — Table rows: 478 | Columns: 7 of 7 | Rows 1 to 200

	Region	Location	Co...	MonumentTraffic	ParkTraffic
1	Northeast	TRAFFIC COUNT AT SAND B...	377...	0	377,759
2	Northeast	TRAFFIC COUNT AT SCHOO...	113...	0	491,360
3	Intermountain	Total Vehicles entering Park	569...	0	1,061,018
4	Northeast	TRAFFIC COUNT AT BAYBER...	368...	0	1,061,018
5	Northeast	TRAFFIC COUNT AT FWS EN...	407...	0	1,061,018
6	Midwest	TOTAL TRAFFIC COUNT AT I...	120...	0	1,181,233
7	Midwest	TOTAL TRAFFIC COUNT AT N...	171...	0	1,353,025
8	Midwest	TOTAL TRAFFIC COUNT AT P...	125...	0	1,478,881
9	Intermountain	TRAFFIC COUNT AT ENTRAN...	0	0	1,478,881
10	Intermountain	TRAFFIC COUNT AT ROUTE ...	59,...	0	1,538,476
11	Intermountain	TRAFFIC COUNT AT ROUTE ...	96,...	0	1,634,629
12	Southeast	TRAFFIC COUNT AT BEAR IS...	6,...	0	1,634,629
13	Southeast	TRAFFIC COUNT AT DONA D...	15,...	0	1,634,629
14	Southeast	TRAFFIC COUNT AT KIRBY ST...	25,...	0	1,634,629
15	Southeast	TRAFFIC COUNT AT MITCHE...	2,...	0	1,634,629
16	Southeast	TRAFFIC COUNT AT MONU...	11,...	0	1,634,629
17	Southeast	TRAFFIC COUNT AT OASIS P...	98,...	0	1,634,629
18	Southeast	TRAFFIC COUNT AT PINECR...	0	0	1,634,629
19	Southeast	TRAFFIC COUNT AT TURNER ...	15,...	0	1,634,629
20	Southeast	TRAFFIC COUNT AT WEST L...	25,...	0	1,634,629
21	Southeast	TRAFFIC COUNT EAST LOOP...	39,...	0	1,634,629
22	Southeast	TRAFFIC COUNT AT ALUM F...	11,...	0	1,634,629
23	Southeast	TRAFFIC COUNT AT BEAR C...	5,...	0	1,634,629
24	Southeast	TRAFFIC COUNT AT BLUE HE...	24,...	0	1,634,629
25	Southeast	TRAFFIC COUNT AT BURNT ...	33,...	0	1,634,629
26	Southeast	TRAFFIC COUNT AT DIVIDE ...	19,...	0	1,634,629
27	Southeast	TRAFFIC COUNT AT EAST O...	13,...	0	1,634,629
28	Southeast	TRAFFIC COUNT AT LEATHE...	74,...	0	1,634,629

49	Intermountain	TRAFFIC COUNT AT NORTH ...	12,...	0	1,646,974
50	Intermountain	TRAFFIC COUNT AT SOUTH ...	113...	0	1,760,347
51	Northeast	TRAFFIC COUNT AT MAIN E...	8,...	8,181	1,760,347

Task 4: Creating a New Column with the SCAN Function



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libname pg1 "/export/viya/homes/merve.pakcan@stud.acs.upb.ro/Courses/PG1V2/data";

data np_summary2;
    set pg1.np_summary;
    ParkType = scan(ParkName, -1, ' '); /* Extracting the last word */
    keep Reg Type ParkName ParkType;   /* Keeping required columns */
run;

proc print data=np_summary2;
run;

/* In row four, the value of ParkType is 'Preserve'. */
```

Obs	Reg	Type	ParkName	ParkType
1	A	NM	Cape Krusenstern National Monument	Monument
2	A	NP	Kenai Fjords National Park	Park
3	A	NP	Kobuk Valley National Park	Park
4	A	PRE	Yukon-Charley Rivers National Preserve	Preserve
5	A	PRE	Bering Land Bridge National Preserve	Preserve
6	A	PRESERVE	Noatak National Preserve	Preserve
7	IM	NM	Alibates Flint Quarries National Monument	Monument
8	IM	NM	Aztec Ruins National Monument	Monument
9	IM	NM	Bandelier National Monument	Monument
10	IM	NM	Canyon De Chelly National Monument	Monument
11	IM	NM	Capulin Volcano National Monument	Monument
12	IM	NM	Casa Grande Ruins National Monument	Monument
13	IM	NM	Cedar Breaks National Monument	Monument
14	IM	NM	Chiricahua National Monument	Monument
15	IM	NM	Colorado National Monument	Monument
16	IM	NM	Devils Tower National Monument	Monument
17	IM	NM	Dinosaur National Monument	Monument
18	IM	NM	El Malpais National Monument	Monument
19	IM	NM	El Morro National Monument	Monument
20	IM	NM	Florissant Fossil Beds National Monument	Monument
21	IM	NM	Fort Union National Monument	Monument
22	IM	NM	Fossil Butte National Monument	Monument
23	IM	NM	Gila Cliff Dwellings National Monument	Monument
24	IM	NM	Hovenweep National Monument	Monument
25	IM	NM	Little Bighorn Battlefield National Monument	Monument
26	IM	NM	Montezuma Castle National Monument	Monument
27	IM	NM	Natural Bridges National Monument	Monument
28	IM	NM	Navajo National Monument	Monument
29	IM	NM	Organ Pipe Cactus National Monument	Monument