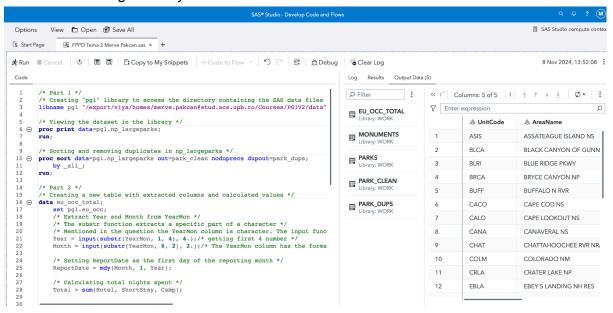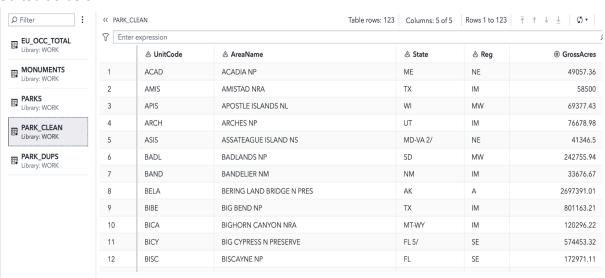# Tema 2 RESULTS

Merve Pakcan Tufenk

When I am running all of my code:
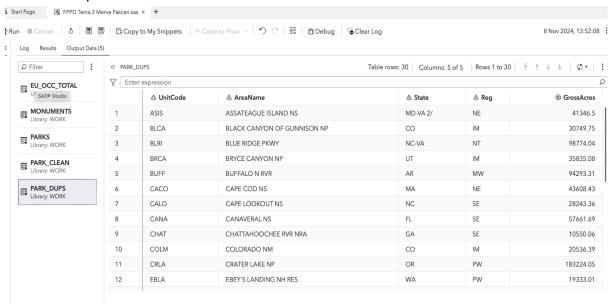

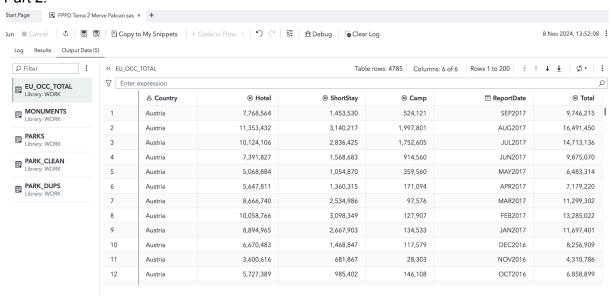
Part 1:
Sorted as below:

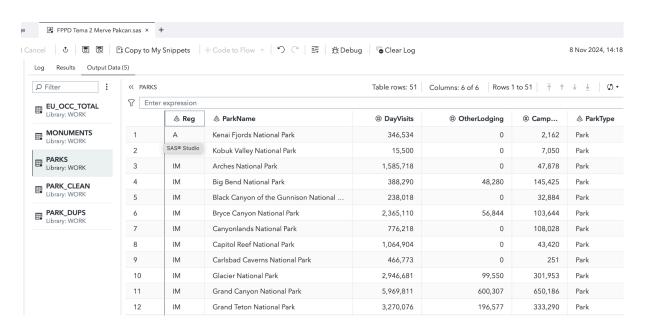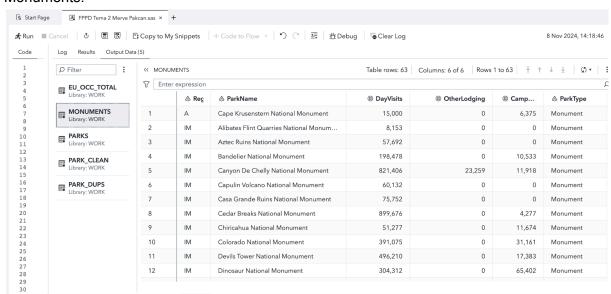## Removed duplicates as below:

Run   Cancel   Copy to My Snippets   + Code to Flow ▾   Debug   Clear Log   8 Nov 2024, 13:52:08

Log   Results   Output Data (5)

Filter

« PARK_DUPS   Table rows: 30   Columns: 5 of 5   Rows 1 to 30

Enter expression

EU_OCC_TOTAL

MONUMENTS
Library: WORK

PARKS
Library: WORK

PARK_CLEAN
Library: WORK

PARK_DUPS
Library: WORK

	UnitCode	AreaName	State	Reg	GrossAcres
1	ASIS	ASSATEAGUE ISLAND NS	MD-VA 2/	NE	41346.5
2	BLCA	BLACK CANYON OF GUNNISON NP	CO	IM	30749.75
3	BLRI	BLUE RIDGE PKWY	NC-VA	NT	98774.04
4	BRCA	BRYCE CANYON NP	UT	IM	35835.08
5	BUFF	BUFFALO N RVR	AR	MW	94293.31
6	CACO	CAPE COD NS	MA	NE	43608.43
7	CALO	CAPE LOOKOUT NS	NC	SE	28243.36
8	CANA	CANAVERAL NS	FL	SE	57661.69
9	CHAT	CHATTAHOOCHEE RVR NRA	GA	SE	10550.06
10	COLM	COLORADO NM	CO	IM	20536.39
11	CRLA	CRATER LAKE NP	OR	PW	183224.05
12	EBLA	EBEY'S LANDING NH RES	WA	PW	19333.01

Part 2:

Run   Cancel   Copy to My Snippets   + Code to Flow ▾   Debug   Clear Log   8 Nov 2024, 13:52:08

Log   Results   Output Data (5)

Filter

« EU_OCC_TOTAL   Table rows: 4785   Columns: 6 of 6   Rows 1 to 200

Enter expression

EU_OCC_TOTAL
Library: WORK

MONUMENTS
Library: WORK

PARKS
Library: WORK

PARK_CLEAN
Library: WORK

PARK_DUPS
Library: WORK

	Country	Hotel	ShortStay	Camp	ReportDate	Total
1	Austria	7,768,564	1,453,530	524,121	SEP2017	9,746,215
2	Austria	11,353,432	3,140,217	1,997,801	AUG2017	16,491,450
3	Austria	10,124,106	2,836,425	1,752,605	JUL2017	14,713,136
4	Austria	7,391,827	1,568,683	914,560	JUN2017	9,875,070
5	Austria	5,068,884	1,054,870	359,560	MAY2017	6,483,314
6	Austria	5,647,811	1,360,315	171,094	APR2017	7,179,220
7	Austria	8,666,740	2,534,986	97,576	MAR2017	11,299,302
8	Austria	10,058,766	3,098,349	127,907	FEB2017	13,285,022
9	Austria	8,894,965	2,667,903	134,533	JAN2017	11,697,401
10	Austria	6,670,483	1,468,847	117,579	DEC2016	8,256,909
11	Austria	3,600,616	681,867	28,303	NOV2016	4,310,786
12	Austria	5,727,389	985,402	146,108	OCT2016	6,858,899

Part 3:
Parks:

Cancel · ⟳ · Copy to My Snippets · + Code to Flow ▾ · ↶ ↷ · Debug · Clear Log — 8 Nov 2024, 14:18

Log · Results · Output Data (5)

Filter ⋮

EU_OCC_TOTAL — Library: WORK
MONUMENTS — Library: WORK
PARKS — Library: WORK
PARK_CLEAN — Library: WORK
PARK_DUPS — Library: WORK

« PARKS — Table rows: 51 · Columns: 6 of 6 · Rows 1 to 51

	Reg	ParkName	DayVisits	OtherLodging	Camp...	ParkType
1	A	Kenai Fjords National Park	346,534	0	2,162	Park
2	SAS® Studio	Kobuk Valley National Park	15,500	0	7,050	Park
3	IM	Arches National Park	1,585,718	0	47,878	Park
4	IM	Big Bend National Park	388,290	48,280	145,425	Park
5	IM	Black Canyon of the Gunnison National …	238,018	0	32,884	Park
6	IM	Bryce Canyon National Park	2,365,110	56,844	103,644	Park
7	IM	Canyonlands National Park	776,218	0	108,028	Park
8	IM	Capitol Reef National Park	1,064,904	0	43,420	Park
9	IM	Carlsbad Caverns National Park	466,773	0	251	Park
10	IM	Glacier National Park	2,946,681	99,550	301,953	Park
11	IM	Grand Canyon National Park	5,969,811	600,307	650,186	Park
12	IM	Grand Teton National Park	3,270,076	196,577	333,290	Park

Monuments:

Run · Cancel · ⟳ · Copy to My Snippets · + Code to Flow ▾ · ↶ ↷ · Debug · Clear Log — 8 Nov 2024, 14:18:46

Code · Log · Results · Output Data (5)

Filter ⋮

EU_OCC_TOTAL — Library: WORK
MONUMENTS — Library: WORK
PARKS — Library: WORK
PARK_CLEAN — Library: WORK
PARK_DUPS — Library: WORK

« MONUMENTS — Table rows: 63 · Columns: 6 of 6 · Rows 1 to 63

	Reg	ParkName	DayVisits	OtherLodging	Camp...	ParkType
1	A	Cape Krusenstern National Monument	15,000	0	6,375	Monument
2	IM	Alibates Flint Quarries National Monum…	8,153	0	0	Monument
3	IM	Aztec Ruins National Monument	57,692	0	0	Monument
4	IM	Bandelier National Monument	198,478	0	10,533	Monument
5	IM	Canyon De Chelly National Monument	821,406	23,259	11,918	Monument
6	IM	Capulin Volcano National Monument	60,132	0	0	Monument
7	IM	Casa Grande Ruins National Monument	75,752	0	0	Monument
8	IM	Cedar Breaks National Monument	899,676	0	4,277	Monument
9	IM	Chiricahua National Monument	51,277	0	11,674	Monument
10	IM	Colorado National Monument	391,075	0	31,161	Monument
11	IM	Devils Tower National Monument	496,210	0	17,383	Monument
12	IM	Dinosaur National Monument	304,312	0	65,402	Monument

I also put my all code below

```sas
1    /* Part 1 */
2    /* Creating "pg1" library to access the directory containing the SAS data files */
3    libname pg1 "/export/viya/homes/merve.pakcan@stud.acs.upb.ro/Courses/PG1V2/data";
4
5    /* Viewing the dataset in the library */
6    proc print data=pg1.np_largeparks;
7    run;
8
9    /* Sorting and removing duplicates in np_largeparks */
10   proc sort data=pg1.np_largeparks out=park_clean noduprecs dupout=park_dups;
11       by _all_;
12   run;
13
```

```sas
12   run;
13
14   /* Part 2 */
15   /* Creating a new table with extracted columns and calculated values */
16   data eu_occ_total;
17       set pg1.eu_occ;
18       /* Extract Year and Month from YearMon */
19       /* The substr function extracts a specific part of a character */
20       /* Mentioned in the question the YearMon column is character. The input function converts a character string to a numeric value. */
21       Year = input(substr(YearMon, 1, 4), 4.);/* getting first 4 number */
22       Month = input(substr(YearMon, 6, 2), 2.);
23       /* The YearMon column has the format YYYYMmm (like 2017M09), so starting at the sixth character to get the two-digit month */
24
25       /* Setting ReportDate as the first day of the reporting month */
26       ReportDate = mdy(Month, 1, Year);
27
28       /* Calculating total nights spent */
29       Total = sum(Hotel, ShortStay, Camp);
30
31
32       /* Format columns to improve readability */
33       format Hotel comma12. ShortStay comma12. Camp comma12. Total comma12. ReportDate monyy7.;
34
35       /* Keeping only the specified columns */
36       keep Country Hotel ShortStay Camp ReportDate Total;
37   run;
```

```sas
37   run;
38
39   /* Part 3 */
40   /* Conditionally divide rows into parks and monuments tables with using DATA step */
41   data parks monuments;
42       set pg1.np_summary;
43       where Type in ('NP', 'NM');
44
45       /* Calculating total campers and format with commas */
46       Campers = sum(TentCampers, RVCampers, BackcountryCampers, OtherCamping);
47       format Campers comma12.;
48
49       /* Setting the length of ParkType, normally it takes only first 4 character*/
50       length ParkType $10;
51
52       /* Using conditional processing to split data into parks and monuments tables */
53       if Type = 'NP' then do;
54           ParkType = 'Park';
55           output parks;
56       end;
57       else if Type = 'NM' then do;
58           ParkType = 'Monument';
59           output monuments;
60       end;
61
62       /* Keeping only specified columns in both output tables */
63       keep Reg ParkName DayVisits OtherLodging Campers ParkType;
64   run;
65
```