# FPPD Lesson 5 Results Merve Pakcan Tufenk

### Task 1

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 Code
          libname pg1 "/export/viya/homes/merve.pakcan@stud.acs.upb.ro/Courses/PGIV2/data";
          /* Task 1 - Analyzing Park Types by Region */
          /* Part a: Frequency table of Type by Region */
          title;
          title "Park Types by Region"; /* Setting the report title */
  /* Sorts rows by frequency w/ order=freq */
10 © proc freq data=pg1.np_codelookup order=freq;
11 tables Type*Region / nocol norow nocum; /* Hiding percentages and cumulative stats */
where not (Type contains "Other"); /* Excluding rows where Type contains 'Other' */
  13
          run;
  14
15
16
17
          /* Part b */
          /* According to results, top three park types: National Historic Site (76), National Monument (69), National Park (59) */
          /* Part c: Updated analysis for top three park types */
title "Selected Park Types by Region"; /* Updated report title */
  18
  20
  22 proc freq data=pgl.np_codelookup order=freq;
tables Type*Region / crosslist nocol nocum
          plots=freqplot(groupby=row scale=percent orient=horizontal);
where Type in ("National Historic Site", "National Monument", "National Park");
run;
  23
24
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27
  28
          /* Intermountain region has the highest row percent overall, leading in National Monument (49.28%) and National Park (30.51%). */
```

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Park Types by Region
The FREQ Procedure

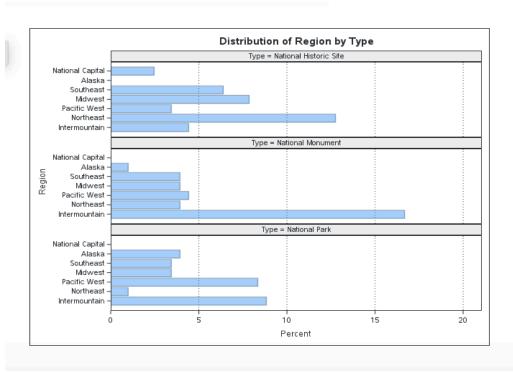
Percent

		Table o	of Type by R	egion					
	Region								
Туре	Intermountain	Northeast	Southeast	Pacific West	Midwest	National Capital	Alaska	Tota	
National Historic Site	9 2.52	26 7.28	13 3.64	7 1.96	16 4.48	5 1.40	0.00	21.2	
National Monument	34 9.52	8 2.24	8 2.24	9 2.52	8 2.24	0.00	2 0.56	19.3	
National Park	18 5.04	2 0.56	7 1.96	17 4.76	7 1.96	0.00	8 2.24	16.5	
National Historical Park	6 1.68	14 3.92	7 1.96	9 2.52	3 0.84	2 0.56	2 0.56	12.04	
National Memorial	2 0.56	7 1.96	3 0.84	1 0.28	5 1.40	11 3.08	0.00	8.12	
National Recreation Area	6 1.68	3 0.84	1 0.28	7 1.96	0.00	0.00	0.00	4.76	
National Battlefield	0.00	2 0.56	4 1.12	1 0.28	1 0.28	2 0.56	0.00	2.80	
National Seashore	1 0.28	3 0.84	5 1.40	1 0.28	0.00	0.00	0.00	2.80	
National Military Park	0.00	2 0.56	6 1.68	0.00	1 0.28	0.00	0.00	2.5	
National Preserve	1 0.28	0.00	3 0.84	1 0.28	1 0.28	0.00	0.84	2.52	
National Wild & Scenic River	1 0.28	2 0.56	1 0.28	0.00	3 0.84	0.00	0.00	1.9	
National River	0.00	1 0.28	1 0.28	0.00	3 0.84	0.00	0.00	1.40	
National Battlefield Park	0.00	1 0.28	1 0.28	0.00	1 0.28	1 0.28	0.00	1.13	
National Lakeshore	0.00	0.00	0.00	0.00	4 1.12	0.00	0.00	1.12	
National Parkway	1 0.28	0.00	2 0.56	0.00	0.00	1 0.28	0.00	1.13	
International Historic Site	0.00	1 0.28	0.00	0.00	0.00	0.00	0.00	0.2	
National Reserve	0.00	0.00	0.00	1 0.28	0.00	0.00	0.00	0.28	
Total	79 22.13	72 20.17	62 17.37	54 15.13	53 14.85	22 6.16	15 4.20	357 100.00	

## Selected Park Types by Region

### The FREQ Procedure

SAS®	Studio	Table of Type by Region					
	Туре	Region	Frequency	Percent	Row Percen		
	National Historic Site	Intermountain	9	4.41	11.84		
		Northeast	26	12.75	34.2		
		Pacific West	7	3.43	9.2		
		Midwest	16	7.84	21.0		
		Southeast	13	6.37	17.1		
		Alaska	0	0.00	0.0		
		National Capital	5	2.45	6.5		
		Total	76	37.25	100.00		
	National Monument	Intermountain	34	16.67	49.2		
		Northeast	8	3.92	11.59		
		Pacific West	9	4.41	13.0		
		Midwest	8	3.92	11.5		
		Southeast	8	3.92	11.5		
		Alaska	2	0.98	2.9		
		National Capital	0	0.00	0.0		
		Total	69	33.82	100.0		
	National Park	Intermountain	18	8.82	30.5		
		Northeast	2	0.98	3.3		
		Pacific West	17	8.33	28.8		
		Midwest	7	3.43	11.8		
		Southeast	7	3.43	11.8		
		Alaska	8	3.92	13.5		
	Total	National Capital	0	0.00	0.0		
		Total	59	28.92	100.0		
		Intermountain	61	29.90			
		Northeast	36	17.65			
		Pacific West	33	16.18			
		Midwest	31	15.20			
		Southeast	28	13.73			
		Alaska	10	4.90			
		National Capital	5	2.45			
		Total	204	100.00			



### Task 2

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 Code
                                                                               Log Results Output Data (3)
      /* Rows with RainDays = 0 were included in the initial results. */ /* To ensure only meaningful statistics, rows where RainDays = 0 were removed in Step 3. */
```

27 Nov 2024, 11:14:33

Park Name	Year	Number of Days Raining	Total Rain Amount (inches)
DEATH VALLEY, CA US	2015	15	2.45
DEATH VALLEY, CA US	2016	16	1.42
DEATH VALLEY, CA US	2017	11	1.46
GRAND CANYON VISITOR CENTER, AZ US	2015	97	25.9
GRAND CANYON VISITOR CENTER, AZ US	2016	82	21.1
GRAND CANYON VISITOR CENTER, AZ US	2017	65	11
YELLOWSTONE NATIONAL PARK EAST ENTRANCE, WY US	2015	150	22.2
YELLOWSTONE NATIONAL PARK EAST ENTRANCE, WY US	2016	149	23.4
YELLOWSTONE NATIONAL PARK EAST ENTRANCE, WY US	2017	143	25.7
ZION NATIONAL PARK, UT US	2015	77	16.9
ZION NATIONAL PARK, UT US	2016	68	21.7
ZION NATIONAL PARK, UT US	2017	56	14.5

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