dplyr_summarise

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Using group_by() and summarise() in dplyr

1 1. Why use group_by() and summarise() from dplyr?

- Being able to aggregate and summarize by grouping is hugely common
- *split-apply-combine* pattern
- These operations can be "chained" with other *dplyr* functions
- Often makes for concise, intuitive, and readable code

1.1 1.1 Example of group_by() and summarise()

	gender	n_rows	mean_age
	<chr></chr>	<int></int>	<dbl></dbl>
-		21	29.47619
A tibble: 5 Œ 3	Female	1906	31.99895
	Male	6804	33.20988
	NULL	20	28.15000
	Unknown	4	34.50000

2 2. Chaining filter() with group_by() and summarise()

	gender	n_rows	mean_age	mean_cnts
A tibble: 4 Œ 4	<chr></chr>	<int></int>	<dbl></dbl>	<dbl></dbl>
		9	23.88889	1.000000
	Female	515	33.46602	1.064039
	Male	2039	33.38941	1.098027
	Unknown	1	49.00000	1.000000

2.1 2.1 More Interesting Example of Chaining

2.1.1 2.1.1 More Interesting Example (cont.)

statute_desc n_vios prop_male m <chr> <int> <dbl> <0 Driving after Denial, Suspension or Revocation of License 457 0.7374179 30 DOMESTIC-SIMPLE ASSAULT/BATTERY 33 364 0.8104396 DISORDERLY CONDUCT 216 0.7453704 31 199 SIMPLE ASSAULT OR BATTERY 0.6381910 31 A tibble: 10 Œ 5 BENCH WARRANT ISSUED FROM SUPERIOR COURT 141 0.8014184 36 RESISTING LEGAL OR ILLEGAL ARREST 123 30 0.7642276 POSSESSION OF SCHEDULE I II III 0.8189655 36 116 BENCH WARRANT ISSUED FROM 6TH DISTRICT COURT 101 0.7821782 36 SHOPLIFTING-MISD - SHOPLIFTING 99 0.4343434 33 WARRANT OF ARREST ON AFFIDAVIT - ALL OTH OFFENSE 93 0.8709677 33