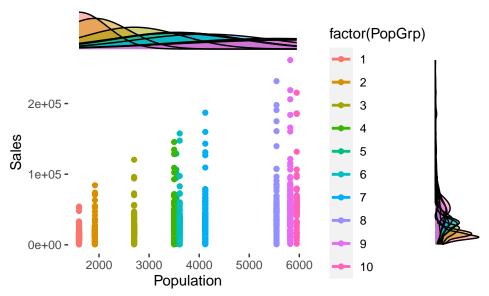
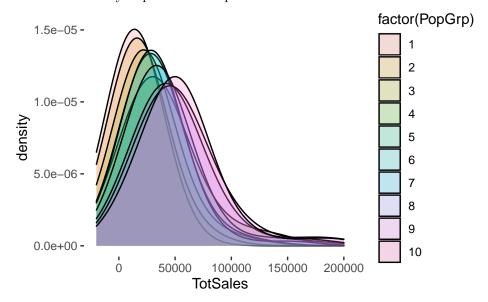
Foundations for Bayesian Analysis Homework

Data and EDA

Load the data from last week (Sales Transactions), and filter for Q4. Summarize by Description, Population, MerGroup, MfgPromo and Wk. Create a visualization of TotSales \sim Population Group (converted to factor), as follows:



Now show sales distributions by Population Group:



(note: this is not a normal distribution - take a look at the sn package)

Deliverables:

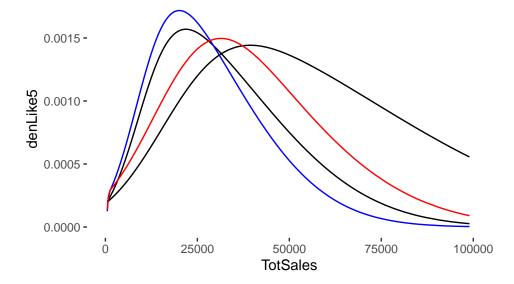
1. Posterior distributions for TotSales: Population Groups 5 and 10.

[1] 1

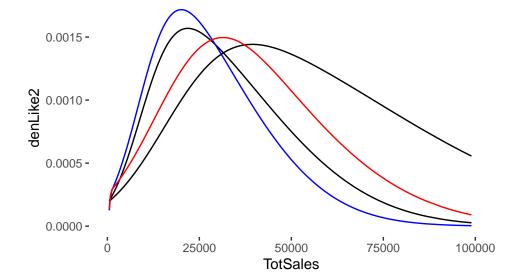
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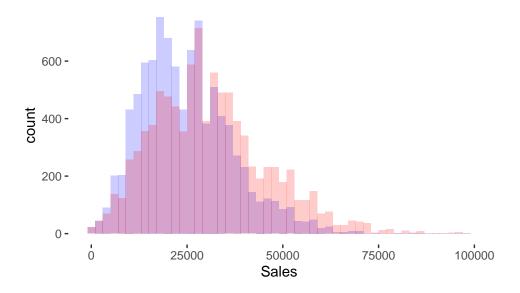
[1] 1



2. Determine probablity of a weekly sales exceeding 20,000 in groups 2 and 6 Take a look at densities:



Create simulations:



Get parameters and run probability functions:

- ## 1 Description Prob ## 1 PopGrp = 2 0.6089974 ## 2 PopGrp = 6 0.7528672