Ozkan Emre Ozdemir – Assignment #1 – Methods for Data Analysis – 4/7/2016

- The total maximum and minimum head counts were obtained on Sundays and on Wednesdays, respectively. The difference between number of head counts of the most and the least busy days are calculated as 42 %.
- When we look at the given data set some games were offered only on certain days of the year which makes it an unfair to compare their popularity based on their total head counts only. In addition it is also not clear to guess the maximum occupancy of a table based on the head counts only. However, we can compare the average number of people per average occupied table ratio for each game over days of the week and come up with an idea which game attracts customers the most when it is offered.
- First the average number of occupied tables per day is calculated for each game as shown in Figure 1 below. Game S6 is found out to have the most occupied tables.
- Then the average number of head count per day is calculated for each game and as shown in Figure 2 below. Similarly, Game S6 is found out to have the most head counts.
- Finally, the density of each occupied table is calculated based on average number of head counts player over average number of occupied table per day for each game. As shown in Figure 3 below, game CR has the most head count per occupied table. In addition, when game BA was offered, its head count per occupied table is relatively higher than other games that are offered more often than BA.

Figure 1 : Average Number of Occupied Tables Per Game

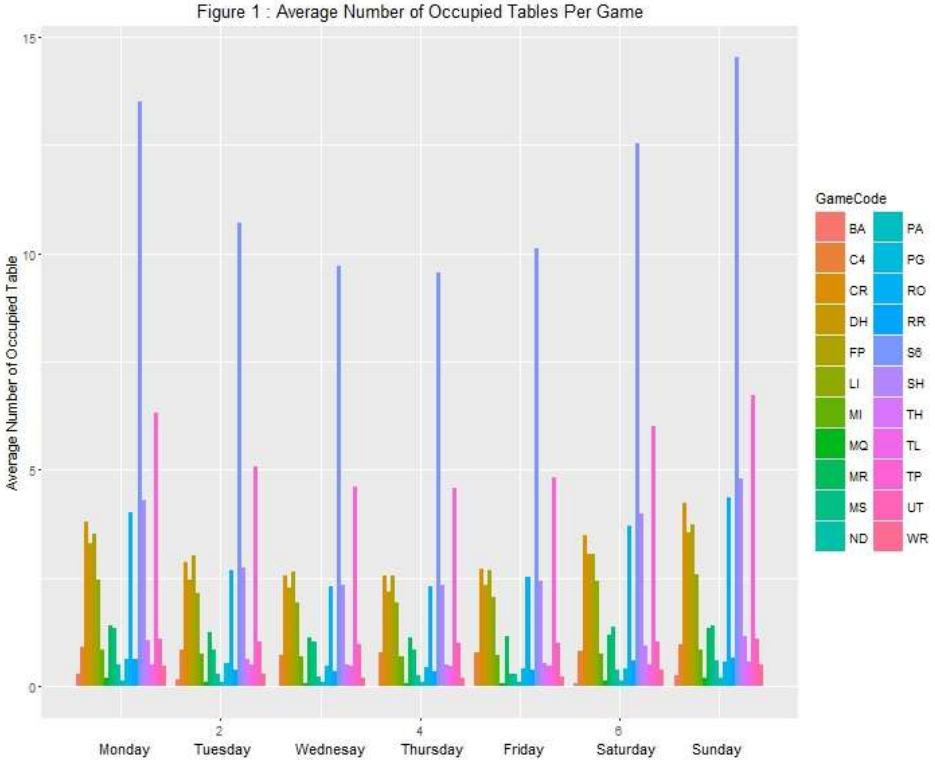

Figure 2 :Average Number of Players per Game

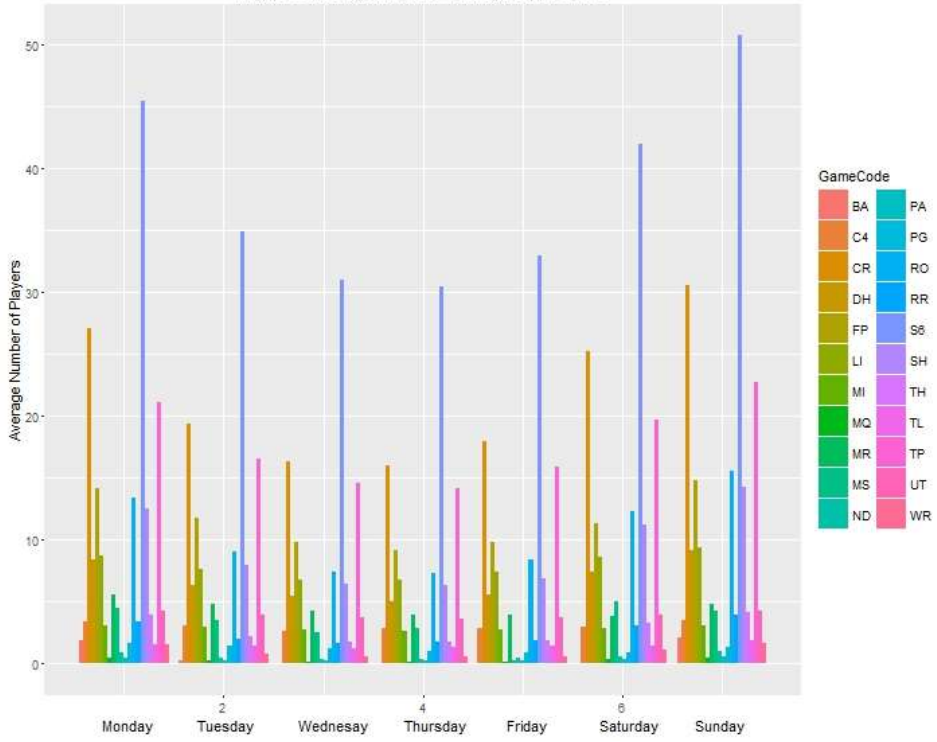

Figure 3 :Average Number of Players per Table