

Tech Talent South

Excel Project

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Case Scenario (Project 1)

Abstract: Case scenario based on teams in the National Basketball Association (NBA). Comparison of data for the three teams: Boston Celtics (BOS), Houston Rockets (HOU), Los Angeles Lakers (LAL).

From the teams examined, the team with the highest W/L percentage was HOU with a W/L of 0.6615853659, or a bit over 66%. They were also the team with the highest field goal percentage. The average points per game for the 'state' team (BOS) was 104.777439. The average turnovers per game for the 'other team' (HOU) was 14.71341463. The points per game in the most recent season for the state team (BOS) is 104.0121951. Average turnover per game for the most recent season for the 'other team' (HOU) is 13.18292683.

According to the data, the team that performed the best with regards to turnovers was BOS, as they had the least per match.

Another important metric to measure was the opponents points per game. Scoring more is only useful if the opponents score less; or conversely, scoring less doesn't necessarily mean a team is worse, because it could be that the strength is in defense. In this case, HOU, on average, had a bigger positive difference between points scored to points conceded compared to BOS, while LAL conceded more than they scored. Another metric to measure is the amount of turnovers the opponent had, as a comparison to see if the team had less turnovers than the opponent team. In this case, LAL had more turnovers, while the other 2 teams had less than their opponents.

The best team of these three was HOU. They had the best win percentage, which is arguably the most important metric, and they had among the best numbers on the other metric as well. In addition to that, they also have the same lead in the most recent season, showing they were the best in both short term and long term perspectives.

Data Analysis (Project 2)

Abstract: Data visualization based on the data found with the National Park Services (NPS), a federal agency of the United States. Analyzation of visitation data found with selected California National Parks and a focus on Yosemite National Park to determine marketing strategies and campaigns.

1. The parks located in the state of California are:

- Cabrillo NM
- Cesar E. Chavez NM
- Channel Islands NP
- Death Valley NP
- Devils Postpile NM
- Eugene O'Neill NHS
- Fort Point NHS
- Golden Gate NRA
- John Muir NHS
- Joshua Tree NP
- Kings Canyon NP
- Lassen Volcanic NP
- Lava Beds NM
- Manzanar NHS
- Mojave NPRES
- Muir Woods NM
- Pinnacles NP
- Point Reyes NS
- Port Chicago Naval Magazine NMEM
- Redwood NP
- Rosie The Riveter WWII Home Front NHP
- San Francisco Maritime NHP
- Santa Monica Mountains NRA
- Sequoia NP
- Whiskeytown NRA
- Yosemite NP

2. In the most recent year, 41,977,184 visited parks in California.

3. A pie chart is used to most effectively show the distribution of people to each park by percentage. We can see that 39.3% of visitors went to Golden Gate NRA, 11.1% went to Santa Monica Mountains NRA, and 10.9% went to Yosemite NP

4. The most popular month to visit Yosemite was August, with July being a close second across the years in the data. A column chart can show this clearly.

5. For question two, we decided to use a column chart because it allows for a side by side visual of the parks' distribution. For question three, we thought a pie chart was the best way to graph the percentage of visitors to each park because it divides a whole into fragments of different colors and sizes, which allowed for a straightforward picture of which parks had higher and lower percentages of visitors. For question four, we decided to use a column chart to show the most popular month to visit Yosemite because it effectively shows the months side by side and allows us to see which month was at the highest and lowest.

Pivot Table (Project 3)

Abstract: Pivot tables based on the data provided with the Canada division of the General Social Survey (GSS) that allows perspective on consumer and residential change. Analyzation of regional sales and data with a focus on Canada and Ontario to determine customer sales and profit.

1. The total sales figure is 14915600.82
2. Technology had the most sales.
3. Nunavut had the lowest sales with 116376.4835. The total sale of appliances in Ontario was 202346.84.

(Slide 26 Questions)

4. The total shipping cost for critical orders is $10783.82 + 1742.1 + 8586.76 = 21112.68$
5. GSS incurred the most cost by Delivery Truck.
6. They do not opt to use air travel for most critical priority deliveries. This likely means that the more expensive form of travel is used to transfer a larger quantity, over a potentially longer distance, which may end up making that more cost effective in comparison (which again, can only happen with lower priority orders)

(Slide 28 Questions)

(change view order with pivot table settings for each question)

7. Emily Pham had the highest sales with 117124.438.
8. Darren Budd had the most orders with 1140.
9. Emily Phan had the highest profits with 34005.45.
10. The Sales figure of the least profitable customer is -14154.29, by Julia West.