**Assignment 2- Data Management**

Course: 6380.003

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1. **Phenomena Description: Yearly Count Popular Car Brands Trend**

An apartment complex owner aims to gather a yearly snapshot of the brands of cars commonly found in the community to help plan next year's rent increase. This data can introduce lifestyle preferences and reflect the area's economic conditions. The process involves counting the number of cars in the parking lot and noting the brand of each vehicle.

1. **Procedure with Photo**
2. Document the car brand according to the vehicle registration when it parks in the lot.
3. Record the number ofcars per brand each year.
4. Repeat this process for three consecutive years.

A parking lot with cars and trees

AI-generated content may be incorrect.

1. **Data Management:**

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1. **Data Visualization:**

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1. **Color Encoded Data Table:**

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1. **Insights:**
2. Based on the data table, **Toyota** has the highest number of cars across the years, making it the most used car brand in this apartment complex. This likely reflects affordability to the users.
3. According to the bar chart, **Tesla** stands out with the largest number of cars in 2024, reaching a peak of 98. This indicates that Tesla is experiencing rapid growth and trends for the upcoming years.
4. From the color-coded table, it is evident that **Nissan** has the lowest number of cars in 2024 compared to other brands, potentially due to shifts in user preferences or other factors affecting its market performance.