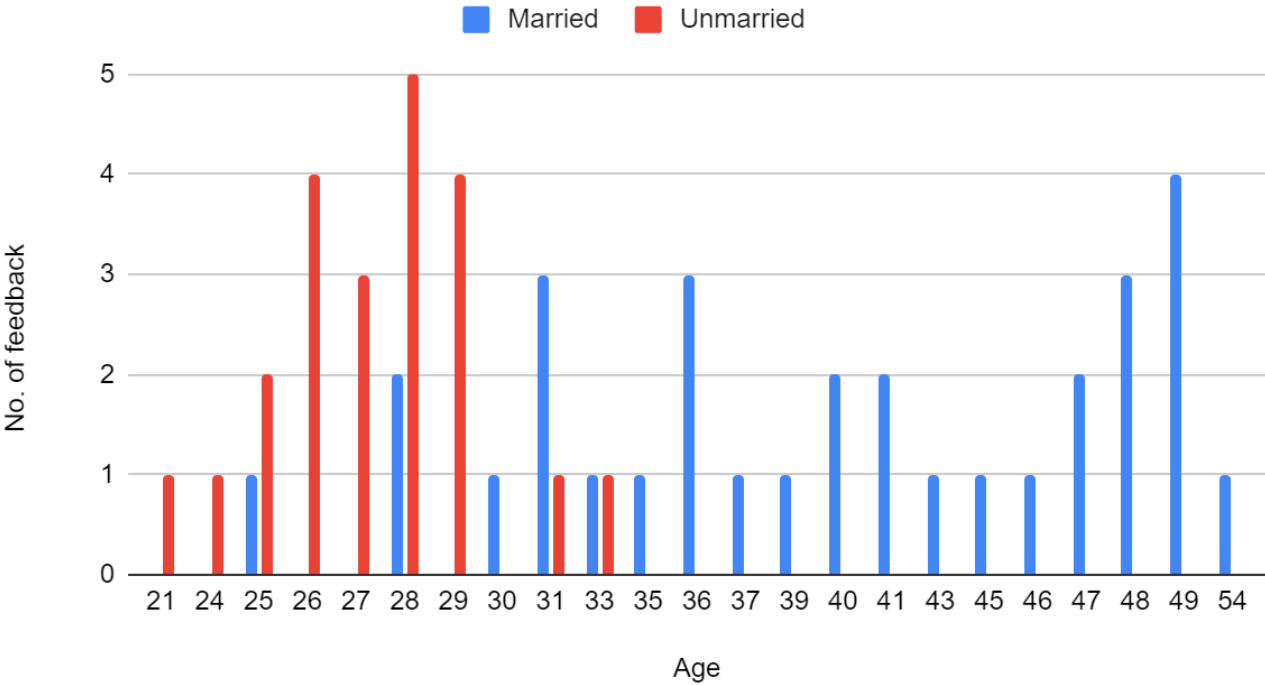
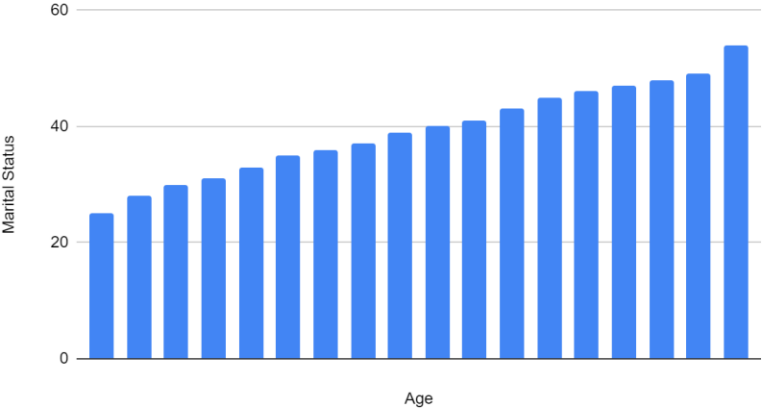


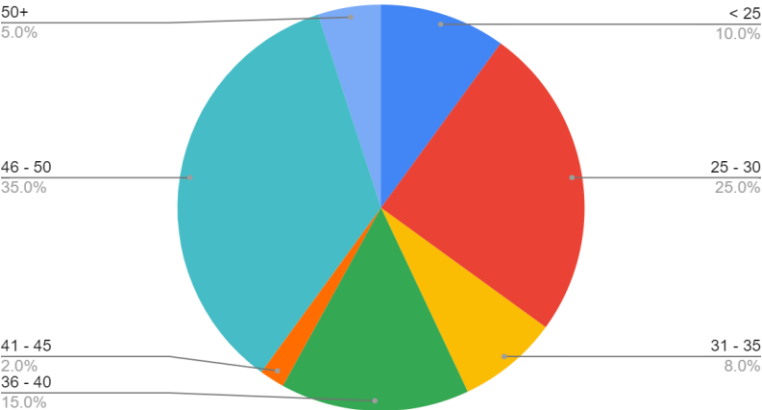
Married and Unmarried



Marital Status



Age Group vs Sum of residents



For each problem, we propose the following solution options:

**Problem 1: Security in the parking area**

Increase security personnel and surveillance in the parking area

Install security cameras to monitor and deter unauthorized activities

Implement a gated access system with key cards or biometric entry for residents

**Problem 2: Gym equipment maintenance**

Regularly inspect and maintain gym equipment to ensure it is in good working condition

Establish a maintenance schedule and contract with a reliable equipment maintenance service

Install a feedback system for residents to report any issues with the gym equipment promptly

**Problem 3: Internet service provider**

Research and evaluate alternative internet service providers with better speed and reliability

Negotiate with the existing ISP to improve their service quality and speed

Explore the possibility of providing multiple ISP options for residents to choose from

## **Impact and Optimal Solution**

Evaluate the impact of each solution option for the identified problems and select the optimal solution:

### **Problem 1: Security in the parking area**

Increasing security personnel and surveillance: High impact, immediate improvement in safety and tenant satisfaction

Installing security cameras: Medium impact, deters potential security threats

Implementing gated access system: Medium impact, enhances security but may require additional investment

### **Problem 2: Gym equipment maintenance**

Regular maintenance and inspection: High impact, ensures equipment is in good working condition and enhances resident experience

Establishing maintenance schedule and contract: Medium impact, ensures timely repairs and maintenance

Feedback system for reporting issues: Low impact, helps in identifying problems but doesn't directly solve maintenance issues

### **Problem 3: Internet service provider**

Researching alternative ISPs: High impact, potentially provides better internet speed and reliability

Negotiating with existing ISP: Medium impact, improves service quality within the limitations of the current provider

Providing multiple ISP options: Medium impact, gives residents the flexibility to choose a better service provider

Based on the analysis, the optimal solutions would be:

Increase security personnel and surveillance in the parking area

Regularly maintain and inspect gym equipment

Research alternative internet service providers for better speed and reliability

### **1. Increase Security Personnel and Surveillance in the Parking Area:**

Cost Estimate: Conduct a thorough assessment to determine the required number of security personnel and install surveillance cameras. The cost will depend on the size of the parking area and the desired level of security.

Implementation Timeline: Engage a security agency to hire and deploy additional personnel. Install surveillance cameras within a specified timeframe.

Potential Challenges: Address any potential resistance from existing security staff or budget constraints. Ensure that the surveillance system is properly maintained and monitored.

### **2. Regularly Maintain and Inspect Gym Equipment:**

Cost Estimate: Establish a maintenance schedule and contract with a reliable equipment maintenance service. The cost will depend on the number and type of equipment, as well as the frequency of maintenance visits.

Implementation Timeline: Set up a maintenance schedule and initiate a contract with the maintenance service provider. Ensure regular inspections and timely repairs.

Potential Challenges: Coordinate with residents to minimize disruptions during maintenance visits. Ensure clear communication channels to report equipment issues promptly.

### **3. Research Alternative Internet Service Providers for Better Speed and Reliability:**

Cost Estimate: Research and evaluate alternative internet service providers. Compare package prices and installation costs, if applicable.

Implementation Timeline: Conduct a thorough analysis of available options and negotiate new contracts with selected providers. Transition to a new provider within a reasonable timeline.

Potential Challenges: Ensure a smooth transition without prolonged internet service disruptions. Communicate changes effectively to residents and provide necessary support during the transition period.