

## CHAPTER 4

### DATA ANALYSIS

Chapter 4 covers the respondents' general description, the questionnaire's validity, and reliability, the young people's perceptions of modifying cars, and the reasons for modifying cars.

#### 4.1 Respondents' Background

The respondents who were chosen from the snowball sampling are young people who are twelve to twenty-four, but the respondents in this study are seventeen to twenty-four years old. The following is the data:

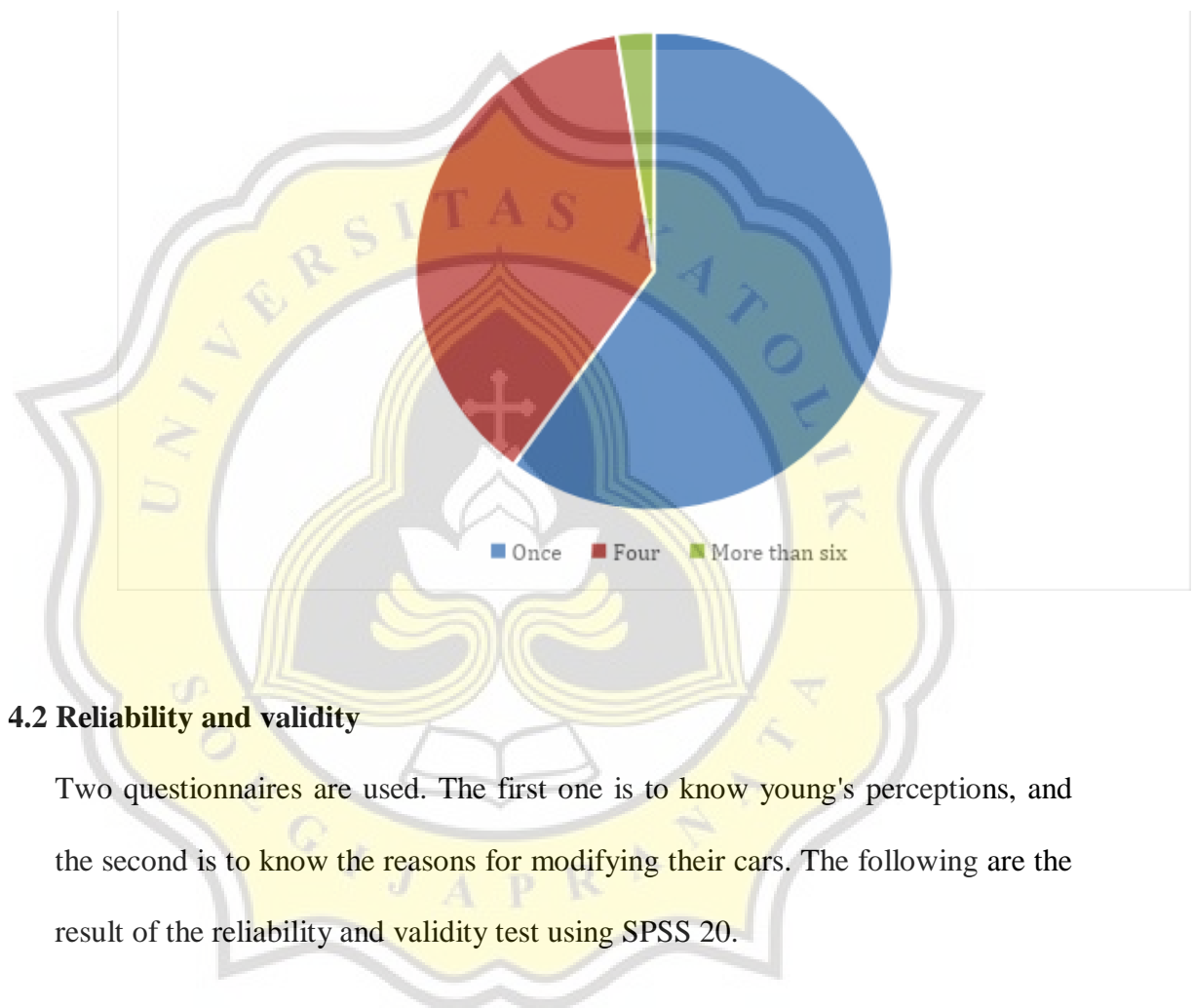
**Table 4.1**

*The Number of Respondents Based on Age*

Age	Number of Respondents
17 years old	2
18 years old	8
20 years old	17
22 years old	5
23 years old	7
24 years old	1

All the participants are males, and all of them have modified cars. The following is the data on the frequency they modify their cars.

1. Twenty-four participants modify their cars once or twice a year.
2. Fifteen people modify three to four times a year
3. One person modifies more than six times.

**Figure 1.***Frequency of Modifying Cars Each Year***4.2 Reliability and validity**

Two questionnaires are used. The first one is to know young's perceptions, and the second is to know the reasons for modifying their cars. The following are the result of the reliability and validity test using SPSS 20.

**4.2.1 Questionnaire on Young people's Perceptions of Modifying cars**

There are nine statements in the questionnaire, part one. Below is the data on the validity of all the questionnaires.

**Table 4.2***Validity of Questioner on Young people's Perception of Modifying cars*

N o	Statement	R Value	R Table	Remark
1	I love to see modified cars with loud engines and big wings at the back on the road.	0.907	0.5494	Valid
2	I can recognize a modified car when I see a low-profile modified car on the road	0.372	0.5494	Not Valid
3	I get excited when I see a modifying car which runs very fast.	0.746	0.5494	Valid
4	I get excited when I see a car on the road with a big rear wing	0.638	0.5494	Valid
5	I find it exciting when I see cars on the road with big rims and shiny colours	0.560	0.5494	Valid
6	I find it exciting when I see a car on the road with a large rear wing painted cursing body	0.574	0.5494	Valid
7	I feel excited when I see a car on the road with a super loud engine	0.760	0.5494	Valid
8	I feel excited when I see cars on the road with their headlights shining and colorful	0.846	0.5494	Valid
9	I feel excited when I see a car on the road with a loud audio system.	1	0.5494	Valid

The table shows that there is one item that is not valid. The R-value of item 2 (*I can recognize a modified car when I see a low-profile modified car on the road*) is 0. 372, which is lower than the R-table, which is 0.5494. Therefore, this item is deleted. Then, the items of questionnaire part one become eight.

**Table 4.3***Reliability Coefficient Interpretation*

Cronbach's Alpha	Internal Consistency
$\alpha \geq 0.9$	Excellent
$0.9 > \alpha \geq 0.8$	Good
$0.8 > \alpha \geq 0.7$	Acceptable
$0.7 > \alpha \geq 0.6$	Questionable
$0.6 > \alpha \geq 0.5$	Poor
$0.5 > \alpha$	Unacceptable

This is the table of reliability coefficient value. If the value is below than 0.7, the items are not reliable.

The following table shows that questionnaire part one is reliable meaning that the questionnaire is trusted. when the questionnaire is used, the quality of being trustworthy or of performing consistently well.

**Table 4.4**

*Reliability of Questioner on Young people's Perception of Modifying Cars*

Reliability Statistics		
Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
.765	.874	9

The Cronbach's Alpha is 0.765. it means that questioner part 1 is acceptable because it is higher than 0.7.

#### 4.2.2 Questionnaire on the Reasons to Modify cars

**Table 4.5**

*Validity of Questioner on Young people's Reasons to Modify Cars*

No	Statement	R Value	R Table	Remark
1	I modify my car to gain recognition in my group.	0.566	0.5494	Valid
2	I modify my car to fulfil my creativity.	0.562	0.5494	Valid
3	I modify my car to make it look masculine.	0.686	0.5494	Valid
4	I modify my car to be part of a group of young people who modified cars.	0.595	0.5494	Valid
5	I modify my car because I find it fun	0.674	0.5494	Valid
6	I modify my car so that the car becomes more efficient	0.595	0.5494	Valid
7	I modify my car to reduce emissions	0.602	0.5494	Valid
8	I modify my car to save fuel.	0.585	0.5494	Valid
9	I modify my car so that the car becomes safer.	0.751	0.5494	Valid
10	I modify my car's brake system to make the car safer.	0.751	0.5494	Valid
11	I modify my car's suspension system to make the car more comfortable and safer.	0.751	0.5494	Valid

Table 4.4 shows that all the items in questionnaire part 2 are valid. Thus, it can be used in this study. All the items are distributed to the participants to get the data on their reasons for modifying their cars.

**Table 4.6**

*Reliability of Questioner on Young people's Reasons to Modify Cars*

Reliability Statistics			
Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items	
.726	.832	12	

The Cronbach's Alpha is 0.726. it means that questioner part 1 is acceptable because it is higher than 0.7.

### 4.3 Young People's Perceptions of Modifying Cars

This part describes the participants' perception of modifying cars. There are eight statements which are modified from the study done by Steg (2005).

**Table 4.7**

*Descriptive Statistics of Young People's Perceptions of Modifying Cars*

	N	Mini mum	Maxi mum	Mean	Std. Deviation
I love to see modified cars with loud engines and big wings at the back on the road.	40	2.00	4.00	2.6250	.74032
I get excited when I see a modifying car which runs very fast.	40	2.00	4.00	3.0500	.45007
I get excited when I see a car on the road with a big rear wing	40	2.00	4.00	3.2000	.56387

I find it exciting when I see cars on the road with big rims and shiny colours	40	1.00	4.00	3.1500	.62224
I find it exciting when I see a car on the road with a large rear wing painted cursing body	40	2.00	4.00	3.3000	.60764
I feel excited when I see a car on the road with a super loud engine	40	3.00	4.00	3.5250	.50574
I feel excited when I see cars on the road with their headlights shining and colorful	40	1.00	4.00	3.0250	1.02501
I feel excited when I see a car on the road with a loud audio system.	40	2.00	4.00	3.0000	.50637
Valid N (listwise)	40				
AVERAGE				3.109	

The table shows that the mean of almost the items in the questionnaire is three or above, but the first variable (*I love to see modified cars on the road with loud engines and big wings at the back*). The average is 3.109. This shows that the participants have a positive attitude toward modifying cars. The following will discuss each item of the questionnaire.

**Table 4.8**

*I Love To See Modified Cars On The Road Wit Loud engines and big wings at the back*

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 2.00	21	52.5	52.5	52.5
3.00	13	32.5	32.5	85.0
4.00	6	15.0	15.0	100.0
Total	40	100.0	100.0	

Almost half of the respondents (47.5%) agree with the statement (*I love to see modified cars on the road with loud engines and big wings at the back*). The participants love to see modified cars. They have a positive attitude on this as the mean is 2.625. The number of participants who chose "disagree" is more than half of the respondents (52.5%). Overall, the participants have a positive attitude toward it.

**Table 4.9**

*I Get Excited When I See A Modified Car That Runs Very Fast*

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2.00	3	7.5	7.5	7.5
	3.00	26	65.0	65.0	72.5
	4.00	11	27.5	27.5	100.0
	Total	40	100.0	100.0	

The table shows that the participants have a positive attitude toward this statement. Almost all participants (87.5%) chose 'agree' and "strongly agree". This shows that they perceive this sentence positively, as the average is 3.2, which can be considered positive. They get excited when they see a modified car running very fast.



**Table 4.10**

*I Get Excited When I See A Car With A Big Rear Wing On The Road.*

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00	1	2.5	2.5	2.5
	2.00	2	5.0	5.0	7.5
	3.00	27	67.5	67.5	75.0
	4.00	10	25.0	25.0	100.0
	Total	40	100.0	100.0	

The table shows that the participants have a positive attitude toward this statement. Almost all participants (92.5%) chose 'agree' and 'strongly agree'. This shows that they perceive this sentence positively, as the average is 3.15, which can be considered positive. They get excited when they see a modified car running very fast.

**Table 4.11**

*I Find It Exciting When I See Cars On The Road With Big Rims And Shiny Colors*

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2.00	3	7.5	7.5	7.5
	3.00	22	55.0	55.0	62.5
	4.00	15	37.5	37.5	100.0
	Total	40	100.0	100.0	

The mean for this statement is 3.3. Thus, it is considered positive as the mean is more than 3. Three participants out of 40 (7.5%) disagree with the statement, while 92.5% of respondents agree or strongly agree with the statement. This

means they enjoy seeing modified cars on the road with big rims and shiny colors.

**Table 4.12**

*I Find It Exciting When I See A Car On The Road With A Large Rear Wing Painted Cursing Body*

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	3.00	19	47.5	47.5	47.5
	4.00	21	52.5	52.5	100.0
Total		40	100.0	100.0	

The table shows that the participants have a positive attitude toward this statement. All participants (100%) chose 'agree' and 'strongly agree'. This shows that they perceive this sentence positively as the mean is 3.5250, which can be considered positive. They get excited when they see a modifying car running on the road with a large gear wing painted cursing body.

**Table 4.13**

*I Feel Excited When I See Cars On The Road With Their Headlights Shining And Colourful*

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00	6	15.0	15.0	15.0
	2.00	2	5.0	5.0	20.0
	3.00	17	42.5	42.5	62.5

4.00	15	37.5	37.5	100.0
Total	40	100.0	100.0	

The mean for this statement is 3.0250. Thus, it is considered positive as the mean is more than 3. Eighteen participants out of 40 (20%) disagree with the statement, while 80% of respondents agree or strongly agree with the statement. This means they enjoy seeing modified cars on the road with their headlights shining and colorful.

**Table 4.14**

*I Feel Excited When I See A Car On The Road With A Loud Audio System*

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2.00	5	12.5	12.5	12.5
	3.00	30	75.0	75.0	87.5
	4.00	5	12.5	12.5	100.0
	Total	40	100.0	100.0	

The table shows that the participants have a positive attitude toward this statement. All participants (100%) chose 'agree' and 'strongly agree'. This shows that they perceive this sentence as positive as the mean is 3.0, which can be considered positive. They get excited when they see a modified car running on the road with a loud audio system.

#### 4.4 Reasons to Modify Cars

This part will discuss the reasons why the participants modify their cars. There are eleven items in this part, and all the items are valid. The following will see one by one item.

**Table 4.15**

*General Reason*

Reasons	Frequency	Percentage
Performance	4	16%
Appearance	36	84%

Almost all of the respondents (84%) stated that they modify their cars for their appearance. It is not about the performance of the cars, like the function of the brakes or the speed. Only 16% of them modify their cars for performance. Most participants do the car modification for appearance. They may consider that their cars look fantastic.

**Table 4.16**

*Descriptive Statistics of Reasons to Modify cars*

	N	Mini mum	Maxim um	Mean	Std. Deviation
I modify my car to gain recognition in my group.	40	2.00	4.00	3.1250	.51578
I modify my car to fulfil my creativity.	40	2.00	4.00	3.0750	.47434

I modify my car to make it look masculine.	40	2.00	4.00	3.1750	.54948
I modify my car to be part of a group of young people who modified cars.	40	2.00	4.00	3.2000	.56387
I modify my car because I find it fun	40	2.00	4.00	2.4500	.59700
I modify my car so that the car becomes more efficient	40	2.00	4.00	2.5500	.59700
I modify my car to reduce emissions	40	2.00	4.00	2.5500	.59700
I modify my car to save fuel.	40	2.00	4.00	2.6000	.63246
I modify my car so that the car becomes safer.	40	2.00	4.00	2.2500	.63043
I modify my car's brake system to make the car safer.	40	2.00	4.00	2.2500	.63043
I modify my car's suspension system to make the car more comfortable and safer.	40	2.00	4.00	2.3000	.60764
Valid N (listwise)	40				
Mean				2.68409	

The table shows that the mean of each item is above 2. This means they agree with the statement about their reasons for modifying their cars. There are eleven items. Item 4 has the highest mean. The statement says that they modify their cars to be part of a group of young people who modify cars. This reflects young people's personalities who think becoming part of an influential group is essential. Items 9 and 10 get the lowest mean. Items 9 and ten are about safety. The reason to modify is to make the car safer. This means that when they modify their cars, they do not want to make their cars safer because of the modified brake system.

**Table 4.17***Modifying The Car To Gain Recognition In Group*

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2.00	3	7.5	7.5	7.5
	3.00	29	72.5	72.5	80.0
	4.00	8	20.0	20.0	100.0
	Total	40	100.0	100.0	

The table shows that 92.5% of the participants agree on this item. Their reason for modifying the car is to gain recognition in the group. This item gets the third highest of the other statements. It seems that gaining recognition is an important reason for the participants to modify their cars. The mean is 3.125.

**Table 4.18***Modifying The Car To Fulfill The Creativity*

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2.00	3	7.5	7.5	7.5
	3.00	31	77.5	77.5	85.0
	4.00	6	15.0	15.0	100.0
	Total	40	100.0	100.0	

The table shows that the participants have a positive attitude toward this statement. Almost all participants (92.5%) chose 'agree' and 'strongly agree'. This shows that they agree that fulfilling their creativity is one of the reasons to modify their cars. They feel that they can express their creativity by modifying

their cars as they like. The writer sees that different people who get their cars modified always have their way. They do not want to have the same modifying cars. As far as the writer knows, there are not any modifying cars which are the same. The mean for this item is 3.075.

**Table 4.19**

*Modifying The Car To Make It Look Masculine*

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2.00	3	7.5	7.5	7.5
	3.00	27	67.5	67.5	75.0
	4.00	10	25.0	25.0	100.0
	Total	40	100.0	100.0	

The mean is 3.175, proving that more participants agree with this statement. Almost all participants (92.5%) chose ‘agree’ and ‘strongly agree’. This shows that they feel this is their reason to modify their cars. They want to look masculine when they drive their modified cars which is different from others. They may feel that they are real men. There are only three participants who disagree.

**Table 4.20**

*Modifying The Car To Be Part Of A Group Of Young People Who Modified Cars*

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2.00	3	7.5	7.5	7.5
	3.00	26	65.0	65.0	72.5
	4.00	11	27.5	27.5	100.0
Total		40	100.0	100.0	

This item gets the highest mean with 3.2. Almost all of the respondents (84%) stated that they modify their cars to be part of a group of young people who modify their cars. It seems that being part of the group is really important reason for them. There are 65% who chose “agree” and 27.5% choosing “strongly agree”.

**Table 4.21**

*Modifying the Car for Fun*

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2.00	24	60.0	60.0	60.0
	3.00	14	35.0	35.0	95.0
	4.00	2	5.0	5.0	100.0
Total		40	100.0	100.0	

The mean for this statement is 2.450. There are more participants (60%) who chose “disagree”. By choosing “disagree”, it means that they may not find that



modifying cars is not really fun. The writer assumes that although they may consider it as more challenging as it really needs creativity and also a big amount of money to modify cars. There are only 5% who consider that modifying cars is fun activity.

**Table 4.22**

*Modifying The Car So That The Car Becomes More Efficient*

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2.00	20	50.0	50.0	50.0
	3.00	18	45.0	45.0	95.0
	4.00	2	5.0	5.0	100.0
	Total	40	100.0	100.0	

The table shows that the number of participants who agree and disagree is the same. 50% of participants chose “disagree”, and 50% chose “agree” or “strongly agree”.

This means that half of the respondents have modified their cars because they think about efficiency, while the other half do not have this reason. They may think more about the cars' appearance rather than their modifying cars' performance. The mean is 2.55.

**Table 4.23***Modifying The Car To Reduce Emissions*

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2.00	20	50.0	50.0	50.0
	3.00	18	45.0	45.0	95.0
	4.00	2	5.0	5.0	100.0
Total		40	100.0	100.0	

The table shows the same data as table 4.22. The number of the participants who chose "disagree" is 50% and the rest chose either "agree" or "strongly agree" . This means that half of the respondents have modified their cars because they think about reducing emissions, while the other half do not have this reason. They may think more about the cars' appearance rather than their modifying cars' performance. The mean is 2.55.

**Table 4.24***Modifying The Car To Save Fuel*

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2.00	19	47.5	47.5	47.5
	3.00	18	45.0	45.0	92.5
	4.00	3	7.5	7.5	100.0
Total		40	100.0	100.0	

The table shows that a little bit more than 50% chose "agree" or "strongly agree". By choosing "agree", it means that they may find that modifying cars

can save fuel. In contrast, almost half of the respondents (47.5%) do not consider saving fuel when modifying their cars. The writer knows that modifying cars sometimes will consume more fuel than before they are modified. The mean is 2.6.

**Table 4.25**

*Modifying The Car To Make The Car Safer*

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2.00	34	85.0	85.0	85.0
	3.00	2	5.0	5.0	90.0
	4.00	4	10.0	10.0	100.0
	Total	40	100.0	100.0	2.250

More people (85%) chose "disagree", meaning that they do not modify their cars to make the cars safer. They do not think about safety when they modify their cars. The mean is 2.250. Only six people, or 15 % of the participants, modify their cars to make them safer.

**Table 4.26**

*Modifying The Car's Brake System To Make The Car Safer*

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2.00	34	85.0	85.0	85.0
	3.00	2	5.0	5.0	90.0
	4.00	4	10.0	10.0	100.0
	Total	40	100.0	100.0	

The mean for this statement is 2.250, and the number of students chose to disagree is 85%. This shows that the participants do not modify their cars' brake systems to make the cars safer. It seems that modifying cars is not about safety. There are only six people (15%) who chose either "agree" or "disagree".

**Table 4.27**

*Modifying Car's Suspension To Make The Car More Comfortable And Safer*

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2.00	31	77.5	77.5	77.5
	3.00	6	15.0	15.0	92.5
	4.00	3	7.5	7.5	100.0
	Total	40	100.0	100.0	

The table shows that only 9 out of 40 participants chose either "agree" or "disagree". In contrast, more participants (31 or 77.5%) disagreed with the statement, meaning they did not modify their cars' suspension to make the car more comfortable and safer. The mean for this statement is 2.30. It seems that modifying cars are the products of pop culture because the participants modify their cars that gives satisfaction, easy to obtain, and it reflects a society's lives, in this case the lives of young people.