

CHAPTER III

RESEARCH METHOD

This chapter is intended to send forth descriptions of research of research design. It elaborates the source of data and provides steps of data collection and analysis.

3.1 Research Design

The study employed qualitative method embracing the characteristics of a case study with some measures of descriptive statistics. The qualitative method was employed due to a need for an intimate interaction with the participant. Qualitative method enabled the researcher to figure out a phenomenon in detail to define subject's behavior and interact intimately with the subject (Alwasilah, 2008, p. 108-109). The qualitative method involved the process of describing, analyzing, categorizing and interpreting the data.

Since the aims of the study were to describe, analyze, categorize and interpret the utterances made by the participant to identify how the realization of Grice's Cooperative Principle in utterances taken from a person with ASD, a qualitative method was considered appropriate for this study. Fraenkel et. al (2012) state that qualitative study is likely to observe the meaning that people give to certain words or action, how people interact with other, and how certain kinds of question are answered.

This study was categorized as a case study because the study investigated a particular phenomenon in depth. As suggested by Yin (cited in Tellis, 1997), case study is a detailed examination of one setting or one single subject, or one single depository of documents or one particular event over a period time. Case study was an appropriate method for this study because it aimed at collecting in-

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depth information on realization of Grice's Cooperative Principle in utterances produced by a person with ASD.

3.2 Data Collection

After elaborating the design of the study, this section is intended to elaborate the data sources as well as the procedures of data collection.

3.2.1 Source of Data

The data of this study were the utterances produced by a person with ASD when he communicated with the speakers (teacher, researcher, friends and shopkeeper). More precisely, the participant involved in this study was a 20 year-old male with ASD who was the student of SLBC Sumbersari Bandung. The participant was chosen because the participant represented the characteristics of people with ASD. The participant had impairment in communication and was categorized autistic.

The conversation between the participant and the speakers took place at SLBC (special school BC) Sumbersari Bandung. SLBC Sumbersari Bandung was chosen as the setting of this study because the researcher had an access to conduct observation in that school. The researcher has been given permission by the principal to conduct observation to one of the students at SLBC Sumbersari Bandung.

3.2.2 Procedures of Data Collection

The data of the study were gathered with observation to a person with ASD at SLBC Sumbersari Bandung. Observation and audio recording are two ways for collecting the data in qualitative method (Silverman, 2006). In addition, field note was also used in this study to support the audio recording so that the data gained

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were made more accurate. Frechtling and Westat (2010) state that field note was useful to provide more in depth background or to help the researcher remember salient events.

The observation was conducted to observe how the participant communicates with the speakers at school. Specifically, the observation involved in this study was categorized as participant observation, because the researcher collected data by participating in participant's daily life (Mac and Ghail, 1994 cited in Smith, 1997). The observation was intended to collect natural data. However, because of the limitation of memory, the researcher used voice recorder to record the conversation. Audio recording was used to record conversation between the participant and the speakers. Recorded observation was vital in this study to help the researcher re-track the data.

In recording the conversation, the researcher faced some difficulties. In some circumstances the researcher was not able to record the conversation because of the participant's behavior such as flapping, hyper active, and echolalia. In order to overcome that problem, the researcher did a field note to complete the data when they could not be obtained by the recorder.

The observation was conducted from 28 November 2013 to 8 January 2014. The observation was conducted for four times. The duration of the observation was about three hours for each meeting. The observation was conducted during teaching and learning process in the classroom and during lunch time in the canteen. The observation was not conducted everyday due to maintaining the participant's mood and avoiding participant's being bored with the presence of the researcher. The conversation was conducted in Indonesian. Table 3.1 shows the settings of the conversation between a person with ASD and the speakers that were observed.

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Table 3.1 List of Data Collected

No	Date	Setting	Conversation	
			Speaker	Hearer
1	Day 1: Nov, 28th 2013	Classroom	Teacher	Person with ASD
			Researcher	Person with ASD
2	Day 2: Dec, 4th 2013	Classroom	Teacher	Person with ASD
			Researcher	Person with ASD
		Canteen	Researcher	Person with ASD
			Shopkeeper	Person with ASD
3	Day 3: Dec, 5th 21013	Classroom	Teacher	Person with ASD
			Researcher	Person with ASD
			Friend	Person with ASD
		Canteen	Researcher	Person with ASD
			Shopkeeper	Person with ASD
			Shopkeeper	Person with ASD
4	Day 4: Jan, 8th 2014	Classroom	Researcher	Person with ASD
			Teacher	Person with ASD
			Friend	Person with ASD
		Canteen	Researcher	Person with ASD
			Shopkeeper	Person with ASD

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From Table 3.1, it can be seen that the settings of the conversation between the participant and the speakers took place in two places; classroom and canteen. As can be seen in the Table 3.1, the observation was conducted four times, in the classroom the conversation was conducted four times while in the canteen the conversation was conducted three times. The observation was mostly done in the classroom because in that setting the participant had a tendency to be quiet and could be controlled. In contrast, in the canteen the participant tends to be hyper active and uncontrolled, so the researcher had a hard time to have an interaction with the participant during lunch time.

3.3 Data Analysis

The data of this study were obtained by observation, audio recording and field note. The data were in the form of conversations, however not all of the recorded conversations were analyzed; only those containing questions and answers were used. From 828 lines of conversation, there were 410 lines containing question and answer, and there were 205 utterances produced by the participant that were analyzed using Grice's Cooperative Principle theory.

The analysis involved several steps: transcribing the recorded conversation, identifying the conversation between the participant and the speakers by using Grice's Cooperative Principle theory, classifying the types of maxim observed and types of non-observance, and calculating the percentages and frequency of occurrences of observed and non-observed maxims and the types of non-observance. The steps are elaborated as follows.

1. Conversation Transcription

The conversation between the participant and the speakers were transcribed manually by referring to Jefferson's transcription symbol. This study considered Jefferson's transcription symbol effective to describe the

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data especially its features such as pause, gestures, overlapping, indecipherable words, and stretched word as described in Table 3.2. Features such as pitch, emphasize and volume were not taken into account. This is in line with the objectives of the study that does not focus on the string of utterance. The process of transcribing was aimed at making the data easy to be analyzed.

Table 3.2 Jefferson's Transcription Symbols (Wray and Bloomer, 2006)

Symbols	Meaning and example
((pause)) and (.)	Pause occurring within a speaker's turn.
((gestures))	Gestures; the word in the bracket are various according to gestures done such as smiles, nods, claps etc.
[words]	Two or more people are talking at once
***	Indecipherable words
Wor::::ds	A word has been stretched out

The transcript of the conversation is separated into clause and marked with number representing the number of the turn taking in the conversation between the participant and the speakers. The participant's and speakers' name were put in second column in short form such as an initial as presented in Table 3.3. The use of initial in the conversation transcription was intended to save the space and to protect the identity of the speakers (Wray and Bloomer, 2006).

Table 3.3 Transcript of Conversation Between the Participant and the Speakers

Line	Conversation Transcription
7	T: "Mana sini bukunya? (.) mau nilai berapa?"
8	P: "delapa::n"

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Table 3.3 provides the example of the transcript of conversation between the teacher (T) and the participant (P). The numbers displayed in the ‘line’ column refer to the turn taking between the participant and the speakers. In line 7, the symbol (.) appeared after “*Mana sini bukunya?*” is to describe that the teacher paused about three seconds on his utterance before asking “*mau nilai berapa*” to the participant. Symbol (:::) on participant’s utterances is to describe that the participant answered the teacher’s question with a long sound /a/ before sound [n] of word “*delapan*”.

2. Maxim Identification

The conversation between the participant and the speakers were identified by using Grice’s Cooperative Principle theory. The utterances made by the participant were identified to see whether the utterances observed the maxims or not. Then, the identified utterances were classified into their types. Table 3.4 is the example of identifying observed maxims and non-observed maxims.

Table 3.4 Example of Maxim Identification

Line	Conversation Transcription	Observed Maxims	Non-observed Maxims	Types of Non-observance
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7	T: "Mana sini bukunya? (.) mau nilai berapa?"		
8	P: " <i>delapa::n</i> "	<div>Quality</div> <div>Quantity</div> <div>Manner</div> <div>Relation</div>	
49	R: "Angga suka olahraga gak?"		
50	P: " <i>olahraga::</i> "	<div>Quality</div> <div>Quantity</div> <div>Manner</div> <div>Relation</div>	Infringement

Table 3.4 shows the conversation between the teacher (T) and the participant (P), and the researcher (R) and the participant (P). In line 7-8, P utterance which is typed in italic in second column indicates the utterances that observed maxim. P completely observed all maxims, P answers T's question orderly which means that P followed maxim of manner. Maxim of quality and quantity were also followed by P. P obeyed maxim of quality by saying "*delapan*" when the teacher asked "*mau nilai berapa?*" he answered the question honestly, logically 8 is high score for grading something. P also followed maxim quantity by giving appropriate amounts of information. Maxim of relation was followed by P it can be seen on his utterance with being relevant by saying "*delapan*" when T asking him "*mau nilai berapa?*". The participant understood that the word "*berapa*" is related to numbers and amount.

Line 49-50 in table 3.4 shows the conversation between R and P. P's utterances which are typed in italic in second column indicate that the utterances did not observed the maxims. The word "*olahraga*" in line 50

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indicates that the utterance totally breaks all maxims. P breaks maxim of relation by answering the question with irrelevant information with the topic being discussed. P breaks maxim of quantity by giving inappropriate answer when being asked with 'Yes or No' question. Maxim of quality and manner also were broken in P utterance. P answered the question with ambiguous word. Infringement is categorized as the types of non-observance on P utterances in line 50. P had no intention to mislead or generate an implicature. It was because P has impaired linguistics performance (echolalia).

3. Data calculation

The occurrences were calculated after all the data were classified into their types. Table 3.5 and 3.6 presented the percentages and frequency of occurrences of observed and non-observed maxims, and the types of non-observance. To count the frequency of each observed maxim, non-observed maxim, and the types of non-observance, the formula used is as follows.

$$P = \frac{F}{N} \times 100\%$$

P = Percentage

F = Frequency of Maxims observed or not observed

N = Total of the Maxims observed or not observed

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Table 3.5 Sample of the Percentage and Frequency of Occurrences of Observed Maxims

Type of Maxims	F	%	Rank
Quality			
Quantity			
Manner			
Relation			
Total			

Table 3.6 Sample of the Percentage and Frequency of Occurrences of Not Observed Maxims and the Types of Non-Observance

Types of non - observance	Types of Maxims								Total	
	Quality		Quantity		Relevance		Manner		f	%
	f	%	f	%	f	%	F	%		
Violating										
Flouting										
Infringing										
Opting out										
Suspend										
Total										

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Rank

The column of ‘the types of non-observance’ provides the types of non-observance that are committed by the participant. The column of ‘the Types of Maxims’ provides the types of non-observed maxims. Meanwhile, (f) refers to the number of frequency of occurrences and (%) refers to the percentage of occurrences. The column of ‘Total’ provides the total frequency and percentage of each not observed maxim and its non-observance. The column rank refers to ranking of the frequency of occurrences of types of maxim that observed and not. After those steps were conducted, the data were elaborated in a detailed explanation to answer the research questions. The result of the study is elaborated in detail in Chapter IV.

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