## **CHAPTER IV**

### **FINDINGS AND DISCUSSION**

This chapter is aimed to explain the results of the search and discuss the results of research conducted by researchers. The research was conducted to find out about the effectiveness of the use of the CAKE application to the ability to speak students' afternoon of the class of 2020 at STKIP PGRI Sidoarjo.

### A. Finding

### 1. The Subject Results

This research was conducted at STKIP PGRI Sidoarjo. One of the universities at Sidoarjo. The population used is afternoon English education students at STKIP PGRI Sidoarjo. The sample that will be used is the afternoon English Education students of the class of 2020 with the samples are eleven students. The purpose of the researchers is to use English Education Students as samples because they want to test their English speaking skills in the Class of 2020. Researchers will use a CAKE application as independent learning. So, this research aims to find out about students' ability to speak English before using the CAKE application.

### 2. The Analysis data

### The Analysis of Score's Speaking

In this research, researchers used score retrieval based on assessment indicators in speaking English. As follows:

To get the score of speaking, the researcher will be taking students' score, The table above, it has five aspects of scoring and every aspect has

four points. So, every student will be getting 20 points, from 4 points x 5 aspects. The formula is:



The criteria of the speaking score are:

Α	≥80
В	≥66-79,99
С	≥56-65,99
D	≥ 40-55,99
Е	0-39,99

Then, the result of scoring speaking will be said goal when each student gets score  $\geq$  66-79,99 students from score  $\geq$ 80 corresponding standard KKM in the campus. The table that shows the score of speaking students in 2020 afternoon, as follows:

N. N.			Categories of Indicators Speaking Assessment					
No.	Name	NIM	Comprehension's Ability (1-4)	Fluency (1-4)	Grammar (1-4)	Vocabulary (1-4)	Pronunciation (1-4)	point
1.	AAP	2088293067	4	3	3	3	3	16
2.	ACD	2088203030	3,5	3	3	3	3	15,5
3.	MAP	2088203064	3	3	3	3	3	15
4.	EKE	2088203014	3,5	3	3	3	3	15,5
5.	MCL	2088203065	3,5	3	3	3	3	15,5
6.	КН	2088203052	3,5	3,5	3,5	3,5	3	17
7.	RDR	2088203043	3,5	3,5	3	3	3	16
8.	FNS	2088203015	3,5	3	3	3	3,5	16
9.	LM	2088203060	3,5	3	3	3	3	15,5
10	FL	2088203048	4	3	3	3	3,5	16,5

# Tabel. 4.1 SCORE OF PRETEST SPEAKING ENGLISH STUDENT 2020 AFTERNOON

11.	NUA	2088203054	3,5	3	3	3	3,5	16
				1.0		10 March 10		

from the table above if summed using the assessment formula, as follows:

No	Students' Name	Score (Pre-test)	No.	Student's Name	Score (Pre-test)
1.	AAP	80	7.	RDR	80
2.	ACD	78	8.	FNS	80
3.	MAP	75	9.	LM	78
4.	EKE	78	10.	FL	83
5.	MCL	78	11.	NUA	80
6.	KH	85			

# Tabel. 4.2 The result Score Pretests of Speaking

			Categories of Indicators Speaking Assessment					
No.	Name	NIM	Comprehension's Ability (1-4)	Fluency (1-4)	Grammar (1-4)	Vocabulary (1-4)	Pronunciation (1-4)	Total point
1.	AAP	2088293067	3,5	3,5	3	3,5	3	16,5
2.	ACD	2088203030	3,5	3,5	3	3	3,5	16,5
3.	MAP	2088203064	3,5	3,5	3	3,5	3,5	17
4.	EKE	2088203014	3,5	3,5	3	3	3	16
5.	MCL	2088203065	4	3	4	3,5	3	17,5
6.	КН	2088203052	3,5	3,5	3	3,5	3,5	17
7.	RDR	2088203043	3,5	3,5	3	3	3,5	16,5
8.	FNS	2088203015	3,5	3,5	3	3,5	4	17,5
9.	LM	2088203060	3,5	3,5	3	3	3,5	16,5
10	FL	2088203048	4	4	3	3,5	4	18,5

## Tabel. 4.3 SCORE OF POST-TEST SPEAKING ENGLISH STUDENT 2020 AFTERNOON

11.	NUA	2088203054	3,5	3,5	3	3	3,5	16,5
				1 m m				

The table above if summed using the valuation formula, as follows:

No	Students' Name	Score	No.	Students' Name	Score		
110	Students Mame	(Post-Test)			(Post-Test)		
1.	AAP	83	7.	RDR	83		
2.	ACD	83	8.	FNS	88		
3.	MAP	85	9.	LM	83		
4.	EKE	80	10.	FL	93		
5.	MCL	88	11.	NUA	83		
6.	KH	85					

## Table 4.4 Post-tests Score's Students Speaking

Based on the data above that this research data is taken based on the results of English speaking tests. The research instrument used in speaking English is shaped in oral tests which use News materials and the topic to be chosen is in the form of "Reporting News". This test is done twice, namely Pretest and post-test.

The pre-test was given to students with the number of subjects 11 students out of a total of 36 students. The number taken is only 11 students because when taking data researchers have limited time in the data retrieval. The data obtained by the researchers then conducted a data analysis by conducting a normality test, after which it was analyzed using the *t dependent* test at *Kolmogorov Smirnov* method. In the process of data analysis, researchers will use computer software namely SPSS version 24. The list of data in the form of speaking value of students of the class of 2020 afternoon, as follows:

No	Student's Name	Student's Name Score (Pre-test)	
1.	ААР	80	83
2.	ACD	78	83
3.	МАР	75	85
4.	EKE	78	80
5.	MCL	78	88
6.	КН	85	85
7.	RDR	80	83
8.	FNS	80	88

Tabel. 4.5 The Table of Score's Students Speaking

9.	LM	78	83
10.	FL	83	93
11.	NUA	80	83

Based on the results of the data obtained from the pre-test stated that the score of 11 students produced a minimum score of 75 and the maximum score is 85 with an average of 79.55 and a standard deviation of 2,697. Meanwhile, the Post-test has a minimum value of 80 and a maximum value of 93 with an average of 84.91 and a standard deviation value of 3,562.

			Statistic	Std. Error
Pretest	Mean		79,55	,813
	95% Confidence Interval	Lower Bound	77,73	425
	for Mean	Upper Bound	81,36	
	5% Trimmed Mean		79,49	
	Median		80,00	
	Variance		7,273	
	Std. Deviation		2,697	
	Minimum	75		
	Maximum		85	
	Range		10	
	Interquartile Range		2	
	Skewness	,593	,661	
	Kurtosis	,954	1,279	
Postest	Mean		84,91	1,074
	95% Confidence Interval	Lower Bound	82,52	
	tor Mean	Upper Bound	87,30	
	5% Trimmed Mean		84,73	
	Median		83,00	
	Variance		12,691	
	Std. Deviation		3,562	
	Minimum		80	
	Maximum		93	
	Range		13	
	Interquartile Range		5	
	Skewness		1,178	,661
	Kurtosis		1,656	1,279

#### Descriptives

### **3.** The Hypothesis test

In this section, the researcher will perform data analysis to test hypotheses which are done with the Normality test before conducting a *comparative dependent test*. Here are the results of the data distribution normality test.

a. Normality Test

Normality tests are performed to find out if each variable's data is normally distributed. Normality test data was obtained from the results of pre-test and post-test English Education class 2020 afternoon. In managing data for normality tests, researchers use the SPSS version 24 software program *Kolmogorov-Smirnov* test. Data is said to be normally distributed if the calculated significant value is greater than the significant value  $\alpha = 0.05$ .

When a normality test is performed to analyze an error occurs on the data where the result appears is  $H_0$  rejected which means the data is not normally distributed. Here are the normality test results for the researcher variables:

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Pretest	,251	11	,051	,910	11	,245
Postest	,249	11	,054	,868	11	,072

### Tests of Normality

a. Lilliefors Significance Correction

According to compare score  $D_{hitung}$  and  $D_{tabel}$ , that are: **Pretests** =>  $D_{hitung} (0,251) \le D_{tabel} (0,391)$  then H<sub>0</sub> Accepted so the data is distribution normal. **Posttest**=>  $D_{hitung}$  (0,249)  $\leq D_{tabel}(0,391)$  then H<sub>0</sub> Accepted so the data is distribution normal.

Meanwhile, to determine the significant value, as follows:

**Pretest** => Nilai sig.(0,051)> 0,05 then H<sub>0</sub> accepted so the data is distribution normal.

**Posttest**=> Nilai sig. (0,054) > 0,05 then H<sub>0</sub> accepted so the data is distribution normal.

Based on the results of normality testing based on two factors, namely based on the comparison of  $D_{hitung}$  and  $D_{tabel}$  values and based on significant values using *Kolmogorov-Smirnov* it can be concluded that pretest and posttest values have a normal distribution of distributed data.

b. t-Dependent test

The *t*-dependent test is conducted to analyze whether or not there is a difference between the pretest and posttest values. In managing the data for the *t*-dependent test, researchers used the SPSS type 24 software program, namely paired-sample *T*-test. Here are the results of the *t*dependent test:

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Pretest	79,55	11	2,697	,813
	Postest	84,91	11	3,562	1,074

Based on the data produced above that this study used a sample of 11 students from afternoon English education classes. The average score for pre-test students of English education class = 79.55 and standard deviation = 2,697. Meanwhile, for post-test value = 84.91 and standard deviation = 3,562. As for the results of paired differences, as follows:

				Paired Sar	nples Test				
		Paired Differences							
				Std Firm	95% Confidence Interval of the Difference				
		Mean	Std. Deviation	Mean	Lower	Upper	t	ď	Sig. (2-tailed)
Pair 1	Pretest - Postest	-5,364	3,585	1,081	-7,772	-2,955	-4,962	10	,001

Based on these results shows that for the value  $t_{hitung} = -4962$  while to know the results of the decision that states there is or no differences in the value of before and after using CAKE Apps. It can be known by comparing which value to look for that the value. So, researchers use this formula:

- $t_{tabel} = \frac{\alpha}{2}; (n-1)$  $= \frac{\alpha}{2}; (11-1)$  $= \frac{0.05}{2}; (10-1)$ = 0.25; 10
- =2,228114/2,2282

Thus, it was found that the result value of the  $t_{table} = 2.2282$ . based on the value of  $t_{hitung} = -4,962$ . So, the result based on the rules of decision making is  $t_{hitung} < -t_{tabel}$  then H<sub>0</sub> is rejected. While based on the significant value obtained by 0.001 which is less than 0.05 probability value which means H<sub>0</sub> is rejected or Sig Value.  $\leq 0,05 = H_0$  Rejected. The conclusion of the data above is the difference in the average results of statistical tests students before and after the use of the CAKE application.

### B. Discussion

The results of the above research data show that there is a difference in the value of Pre-test or before using the APPLICATION CAKE and Post-test after using the application CAKE to English language skills students of English education afternoon class of 2020. The data results are derived from power analysis conducted by descriptive statistical testing in the form of minimum value and maximum value. In the pretest assessment or before the use of cake application the highest score of each student is 85 and the lowest is numbered 75 which according to campus KKM standards is when each student gets a score  $\geq$  of 66-79.99 students from score  $\geq$ 80. Therefore, based on KKM standards the campus states that students with a score of 75 will be included in the B grade category while for a score of 85 then the student falls into the category of grade A.

Meanwhile, in the post-test assessment or after the use of the CAKE application to students showed the highest score of 93 and the lowest score of 80, so according to KKM standard, the students get a grade with category A that is getting a score of  $\geq$ 80. As well as, the results of data analysis with descriptive statistical testing that is mean value, which means post-test value (84.91) greater than pre-test (79.55).

In addition, it is also proven by conducting a *T*-dependent or comparative dependent test which measures the comparison between pre-test values and posttest values. As explained in the analysis above that the results of the *t* dependent (Comparative dependent) test that shown a  $t_{hitung}$  value greater than the value of  $t_{tabel}$  (-4,962 < -2.2282) that H<sub>0</sub> rejected. Based on, the rules of decision making

Rejected means there were differences before and after using CAKE Apps. The results are also proven by significant values obtained by 0.001 smaller from the significance value of  $0.05 (0.001 \le 0.05)$  that H<sub>0</sub>rejected which is the decision that there is a difference before and after the use of CAKE apps on English language skills students 2020 afternoon.

Thus, it can be concluded that there are differences in students statistics test results before and after the use of CAKE application or the effectiveness of using CAKE application on the English language skills of students 2020 afternoon which the application is used to train the ability to speak English language as well as as a medium of speaking exercises independently.

Learning using the CAKE application can also provide motivation and encouragement for students to practice speaking English where the app tells users how to pronounce correctly like native speakers, providing new vocabulary that can be used in speaking English ranging from simple to idiom phrases often used by native speakers. CAKE application is also very interesting that gives the sensation of playing where users will be given a star score if they complete the theme they choose.

