CHAPTER IV

FINDING AND DISCUSSION

A. Findings

In this chapter, the researcher analyzed the transcription of the consonant sounds made by the eleventh grade of SMAN 7 Pekanbaru, there were 75 students who read analytical text consonant sounds.

Based on the research, the researcher found some errors made by the eleventh grade of students in pronouncing consonant sounds. To identify the errors in this research, the researcher used International Phoetic Alphabet (IPA) made by experts.

The data showed that the percentage of errors in the eleventh grade of Senior High School 7 Pekanbaru in pronouncing consonant sounds, and furthermore having known the score from both raters as the key step to identify kinds of errors on consonant sounds which were most frequently found in students' pronounciation in the eleventh grade of senior high school 7 Pekanbaru by counting the frequency and percentage of the consonant sounds.

Table IV.1
The Students' Accuracy in Pronouncing
Consonant Sounds

Consonant Sounds		Final Score			
		Correct		Incorrect	
		Frequency	Percentage	Frequency	Percentage
Consonant Bilabial sound [p b m]	Pagoda	75	100%	0	0%
	Point	75	100%	0	0%
	Brazil	75	100%	0	0%
	Background	75	100%	0	0%
	Mummy	75	100%	0	0%
	Model	75	100%	0	0%
Consonant Labiodental sound [f v]	Festival	75	100%	0	0%
	Fact	75	100%	0	0%

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	Vibrant	7	9%	68	91%
	View	38	51%	37	49%
Consonant Dental sound [θ ð]	Through	7	9%	68	91%
	The	38	51%	37	49%
	Their	34	45%	41	55%
Consonant Alveo-lar sound [t d n s z l]	Teapot	75	100%	0	0%
	Timeline	75	100%	0	0%
	Drum	75	100%	0	0%
	Display	75	100%	0	0%
	New	75	100%	0	0%
	Next	75	100%	0	0%
	Students	75	100%	0	0%
	Zeus	75	100%	0	0%
	Using	27	36%	48	64%
	Landmark	75	100%	0	0%
Consonant post-alveolar sound [ʃ, ʒ, ʧ, ʤ]	Showcased	15	20%	60	80%
	Showing	53	71%	22	29%
	Measure	8	11%	67	89%
	Teach	73	97%	2	3%
	Culture	8	11%	67	89%
	Project	75	100%	0	0%
	Energy	30	40%	45	60%
Consonant Retro-flex sound [r]	Research	74	99%	1	1%
Consonant Palatal sound [j]	Japan	75	100%	0	0%
	Jack	75	100%	0	0%
Consonant Velar sounds [k g ŋ]	Kimono	75	100%	0	0%
	Climate	75	100%	0	0%
	Glue	75	100%	0	0%
	Gondola	75	100%	0	0%
	Sphinx	43	57%	32	43%
	Everything	75	100%	0	0%
Consonant Glottal sound [h]	Highlight	75	100%	0	0%
	History	75	100%	0	0%
Total		**2.480**		**595**	

The data showed that the percentage of errors in the eleventh grade of SMAN 7 Pekanbaru in Pronouncing English consonant sounds.

The following is the description of the students percentage of accuracy in pronouncing consonant sounds which was assessed by two raters,

1. **Bilabial sounds [p b m]**

Table IV.2
The Percentage of Students' Accuracy in Pronouncing
Consonant Bilabial Sounds in Words "Pagoda, Point,
Brazil, Background, Mummy and Model"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	75	75	75	100%
Incorrect	0	0	0	0%

Based on table 4.2, the percentage of students' accuracy in pronouncing consonant Bilabial sounds in words such as "Pagoda," "Point," "Brazil," "Background," "Mummy," and "Model" was 100%, with no recorded errors. Both Rater 1 and Rater 2 noted 75 correct pronunciations and 0 incorrect pronunciations, indicating that the students demonstrated no errors in pronouncing these sounds.

2. **Labiodental sounds [f v] "Festival, Fact, Vibrant, and View"**

a. Festival, Fact

Table IV.3
The Percentage of Student Accuracy in Pronouncing Consonant Labiodental Sounds in Words "Festival, Fact"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	75	75	75	100%
Incorrect	0	0	0	0%

Table 4.3 shows, the percentage of students' accuracy in pronouncing consonant Labiodental sounds in words such as "Festival, Fact" was 100%, with no recorded errors. Both Rater 1 and Rater 2 noted 75 correct pronunciations and 0 incorrect pronunciations, indi-

cating that the students demonstrated no errors in pronouncing these sounds.

b. Labiodental sounds /v/ [vibrant]

Table IV.4
The Percentage of Students' Accuracy in Pronouncing Consonant Labiodental Sounds in Word "Vibrant"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	0	15	7	9%
Incorrect	75	60	68	91%

Based on table 4.4, the percentage of students' accuracy in pronouncing consonant Labiodental sounds in the word "Vibrant", with 9% correct pronunciations and 91% incorrect. So, most of students made errors in pronouncing consonant Labiodental sounds /v/ in the word "Vibrant".

c. Labiodental saound /v/ [view]

Table IV.5
The Percentage of Students' Accuracy in Pronouncing Consonant Labiodental Sounds in Word "View"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	0	75	38	51%
Incorrect	75	0	37	49%

Based on table 4.5, the percentage of students' accuracy in pronouncing consonant Labiodental csound in the word "View", with 51% correct pronunciations and 49% incorrect. So, most of students correctly pronounced consonant Labiodental sound /v/ in the word "View"

3. Dental Sound [θ]: Through [ð]: The, Their

a. Through

Table IV.6
The Percentage of Students' Accuracy in Pronouncing
Consonant Dental Sounds in Word "Through"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	**Rater 2**		
Correct	0	15	7	9%
Incorrect	75	60	68	91%

Based on table 4.6, the percentage of students' accuracy in pronouncing consonant Dental sound in the word "Through", with 9% correct pronunciations and 91% incorrect. So, most of students made errors in pronouncing consonant Dental sound /θ/ in the word "Through".

b. The

Tabel IV.7
The Percentage of Students' Accuracy in Pronouncing
Consonant Dental Sounds in Word "The"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	**Rater 2**		
Correct	0	75	38	51%
Incorrect	75	0	37	49%

Based on table 4.7, the percentage of students' accuracy in pronouncing consonant Dental sounds in the word "The", with 51% correct pronunciations and 49% incorrect. So, most of students correctly pronounced consonant Dental sound /ð/ in the word "The".

c. Dental sound [ð]: Their

Table IV.8
The Percentage of Students' Accuracy in Pronouncing
Consonant Dental Sounds in Word "Their"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	2	66	34	45%
Incorrect	73	9	41	55%

Based on table 4.8, the percentage of students' accuracy in pronouncing consonant Dental sounds in the word "Their", with 45% correct pronunciations and 55% incorrect. So, most of students made errors in pronouncing consonant Dental sounds /ð/ in the word "Their".

4. **Consonant Alveolar Sounds [t d n s z l] "Teapot, Timeline, Drum, Display, New, Next, Students, Zeus, Using, Landmark"**

a. Teapot, Timeline

Table IV.9
The Percentage of Students' Accuracy in Pronouncing
Consonant Alveolar Sounds in Words "Teapot, Timeline"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	75	75	75	100%
Incorrect	0	0	0	0%

Based on table 4.9, the percentage of students' accuracy in pronouncing consonant Alveolar sounds in words such as " Teapot, Timeline", was 100%, with no recorded errors. Both Rater 1 and Rater 2 noted 75 correct pronunciations and 0 incorrect pronunciations, indicating that the students demonstrated no errors in pronouncing these sounds.

b. Drum, Display

Table IV.10
The Percentage of Students' Accuracy in Pronouncing
Consonant Alveolar Sounds in Words "Drum, Display"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	75	75	75	100%
Incorrect	0	0	0	0%

Based on table 4.10, the percentage of students' accuracy in pronouncing consonant Alveolar sounds in words such as "Drum, Display", was 100%, with no recorded errors. Both Rater 1 and Rater 2 noted 75 correct pronunciations and 0 incorrect pronunciations, indicating that the students demonstrated no errors in pronouncing these sounds.

c. New, Next

Table IV.11
The Percentage of Students' Accuracy in Pronouncing
Consonant Alveolar Sounds in Words "New, Next"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	75	75	75	100%
Incorrect	0	0	0	0%

Table 4.11 shows, the percentage of students' accuracy in pronouncing consonant Alveolar sounds in words such as "New, Next", was 100%, with no recorded errors. Both Rater 1 and Rater 2 noted 75 correct pronunciations and 0 incorrect pronunciations, indicating that the students demonstrated no errors in pronouncing these sounds.

d. Student

Table IV.12
The Percentage of Students' Accuracy in Pronouncing
Consonant Alveolar Sounds in Word "Student"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	75	75	75	100%
Incorrect	0	0	0	0%

Table 4.12 shows, the percentage of students' accuracy in pronouncing consonant Alveolar sounds in words such as "Student", was 100%, with no recorded errors. Both Rater 1 and Rater 2 noted 75 correct pronunciations and 0 incorrect pronunciations, indicating that the students demonstrated no errors in pronouncing these sounds.

e. Zeus

Table IV.13
The Percentage of Students' Accuracy in Pronouncing
Consonant Alveolar Sounds in Word "Zeus"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	75	75	75	100%
Incorrect	0	0	0	0%

Table 4.13 shows, the percentage of students' accuracy in pronouncing consonant Alveolar sounds in words such as "Zeus", was 100%, with no recorded errors. Both Rater 1 and Rater 2 noted 75 correct pronunciations and 0 incorrect pronunciations, indicating that the students demonstrated no errors in pronouncing these sounds.

f. Using

Table IV.14
The Percentage of Students' Accuracy in Pronouncing
Consonant Alveolar Sounds in Word "Using"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	33	21	27	36%
Incorrect	42	54	48	64%

Table 4.14 shows, the percentage of students' accuracy in pro-nouncing consonant Alveolar sounds in the word "Using", with 36% correct pronunciations and 64% incorrect. So, most of students made errors in pronouncing consonant Alveolar sounds /z/ in the word "us-ing".

g. Landmark

Table IV.15
The Percentage of Students' Accuracy in Pronouncing
Consonant Alveolar Sounds in Word "Landmark"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	75	75	75	100%
Incorrect	0	0	0	0%

Table 4.15 shows, the percentage of students' accuracy in pro-nouncing consonant Alveolar sounds in words such as "Landmark", was 100%, with no recorded errors. Both Rater 1 and Rater 2 noted 75 correct pronunciations and 0 incorrect pronunciations, indicating that the students demonstrated no errors in pronouncing these sounds.

5. Consonant Postalveolar sounds [ʃ, ʒ, ʧ, ʤ]

"Showcased, Showing, Measure, Teach, Culture, Project, and Energy"

a. Showcased

Table IV.16
The Percentage of Students' Accuracy in Pronouncing
Consonant Postalveolar Sounds in Word "Showcased"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	**Rater 2**		
Correct	16	15	15	20%
Incorrect	59	60	60	80%

Based on table 4.16, the percentage of students' accuracy in pronouncing consonant Postalveolar sounds in the word "Showcased", with 20% correct pronunciations and 80% incorrect. So, most of students made errors in pronouncing consonant Postalveolar sounds /ʃ/ in the word "Showcased".

b. Showing

Table IV.17
The Percentage of Students' Accuracy in Pronouncing
Consonant Postalveolar Sounds in Word "Showing"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	**Rater 2**		
Correct	32	75	53	71%
Incorrect	43	0	22	29%

Table 4.17 shows, the percentage of students' accuracy in pronouncing consonant Postalveolar sounds in the word "Showing", with 71% correct pronunciations and 29% incorrect. So, most of students correctly pronounced consonant Postalveolar sounds /ʃ/ in the word "Showing".

c. Measure

Table IV.18
The Percentage of Students' Accuracy in Pronouncing
Consonant Postalveolar Sounds in Word "Measure"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	2	15	8	11%
Incorrect	73	60	67	89%

Table 4.18 shows, the percentage of students' accuracy in pronouncing consonant Postalveolar sounds in the word "Measure", with 11% correct pronunciations and 89% incorrect. So, most of students made errors in pronouncing consonant Postalveolar sounds /ʒ/ in the word "Measure".

d. Teach

Table IV.19
The Percentage of Students' Accuracy in Pronouncing
Consonant Postalveolar Sounds in Word "Teach"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	75	71	73	97%
Incorrect	0	4	2	3%

Table 4.19 shows, the percentage of students' accuracy in pronouncing consonant Postalveolar sounds in the word "Teach", with 97% correct pronunciations and 3% incorrect. So, most of students correctly pronounced consonant Postalveolar sounds /ʧ/ in the word "Teach".

e. Culture

Table IV.20
The Percentage of Students' Accuracy in Pronouncing
Consonant Postalveolar Sounds in Word "Culture"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	2	15	8	11%
Incorrect	73	60	67	89%

Based on table 4.20, the percentage of students' accuracy in pronouncing consonant Postalveolar sounds in the word "Culture", with 11% correct pronunciations and 89% incorrect. So, most of students made errors in pronouncing consonant Postalveolar sounds /ʧ/ in the word "Culture".

f. Project

Table IV.21
Table Frequency score of Consonant Postalveolar
sounds errors in pronouncing "Project"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	75	75	75	100%
Incorrect	0	0	0	0%

Based on the table 4.21, the percentage of students' accuracy in pronouncing consonant Postalveolar sounds in words such as "Project", was 100%, with no recorded errors. Both Rater 1 and Rater 2 noted 75 correct pronunciations and 0 incorrect pronunciations, indicating that the students demonstrated no errors in pronouncing these sounds.

g. Energy

Table 4.22
The Percentage of Students' Accuracy in Pronouncing
Consonant Postalveolar Sounds in Word "Energy"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	44	15	30	40%
Incorrect	31	60	45	60%

Based on table 4.22, the percentage of students' accuracy in pronouncing consonant Postalveolar sounds in the word "Energy", with 40% correct pronunciations and 60% incorrect. So, most of students made errors in pronouncing consonant Postalveolar sounds /dʒ/in the word "Energy".

6. **Consonant Retroflex sound [r] "Research"**

a. Research

Table IV.23
The Percentage of Students' Accuracy in Pronouncing
Consonant Retroflex Sounds in Word "Research"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	75	73	74	99%
Incorrect	0	2	1	1%

Table 4.23 shows, the percentage of students' accuracy in pronouncing consonant Retroflex sounds in the word "Research", with 99% correct pronunciations and 1% incorrect. So, most of students correctly pronounced consonant Retroflex sounds /r/ in the word "Research".

7. Consonant Palatal Sound [j] "Japan, Jack"

a. Japan, Jack

Table IV.24
The Percentage of Students' Accuracy in Pronouncing
Consonant Palatal Sounds in Words "Japan, Jack"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	75	75	75	100%
Incorrect	0	0	0	0%

Based on table 4.24, the percentage of students' accuracy in pronouncing consonant Postalveolar sounds in words such as "Japan, Jack", was 100%, with no recorded errors. Both Rater 1 and Rater 2 noted 75 correct pronunciations and 0 incorrect pronunciations, indicating that the students demonstrated no errors in pronouncing these sounds.

8. Consonant Velar sounds [k g ŋ] "Kimono, Climate, Glue, Gondola, Sphinx, and Everything"

a. Kimono, Climate

Table IV.25
The Percentage of Students' Accuracy in Pronouncing
Consonant Velar Sounds in Words "Kimono, Climate"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	75	75	75	100%
Incorrect	0	0	0	0%

Based on table 4.25, the percentage of students' accuracy in pronouncing consonant Velar sounds in words such as "Kimono, Climate", was 100%, with no recorded errors. Both Rater 1 and Rater 2

noted 75 correct pronunciations and 0 incorrect pronunciations, indicating that the students demonstrated no errors in pronouncing these sounds.

b. Glue, Gondola

Table IV.26
The Percentage of Students' Accuracy in Pronouncing
Consonant Velar Sounds in Words "Glue, Gondola"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	75	75	75	100%
Incorrect	0	0	0	0%

Table 4.26 shows, the percentage of students' accuracy in pronouncing consonant Velar sounds in words such as "Glue, Gondola", was 100%, with no recorded errors. Both Rater 1 and Rater 2 noted 75 correct pronunciations and 0 incorrect pronunciations, indicating that the students demonstrated no errors in pronouncing these sounds.

c. Sphinx

Table IV.27
The Percentage of Students' Accuracy in Pronouncing
Consonant Velar Sounds in Word "Sphinx"

	Frequency Score		Frequency Final Score	Percentage
	Rater 1	Rater 2		
Correct	75	10	43	57%
Incorrect	0	65	32	43%

Table 4.27 shows, the percentage of students' accuracy in pronouncing consonant Velar sounds in the word "Sphinx", with 57% correct pronunciations and 43% incorrect. So, most of students correctly pronounced consonant Velar sounds /ŋ/ in the word "Sphinx".

d. Everything

Table IV.28
The Percentage of Students' Accuracy in Pronouncing
Consonant Velar Sounds in Word "Everything"

| | Frequency Score | | Frequency Final Score | Percentage |
	Rater 1	Rater 2		
Correct	75	75	75	100%
Incorrect	0	0	0	0%

Table 4.28 shows, the percentage of students' accuracy in pronouncing consonant Velar sounds in words such as "Everything", was 100%, with no recorded errors. Both Rater 1 and Rater 2 noted 75 correct pronunciations and 0 incorrect pronunciations, indicating that the students demonstrated no errors in pronouncing these sounds.

9. **Consonant Glottal sound [h] "Highlight, History"**

a. Highlight, History

Table IV.29
The Percentage of Students' Accuracy in Pronouncing
Consonant Glottal Sounds in Words "Highlight, History"

| | Frequency Score | | Frequency Final Score | Percentage |
	Rater 1	Rater 2		
Correct	75	75	75	100%
Incorrect	0	0	0	0%

Table 4.29 shows, the percentage of students' accuracy in pronouncing consonant Glottal sounds in words such as "Highlight, Histaory", was 100%, with no recorded errors. Both Rater 1 and Rater 2 noted 75 correct pronunciations and 0 incorrect pronunciations, indicating that the students demonstrated no errors in pronouncing these sounds.

Table IV.30
The Percentage of Total Errors in
Pronouncing English Consonant Sounds

	Consonant Sounds		frequency of errors	percentage of errors	Mean of Errors	category of errors
Consonant Bilabial sound [p b m]	/p/	Pagoda	0	0%	0%	Very low
		Point	0	0%		
	/b/	Brazil	0	0%		
		Background	0	0%		
	/m/	Mummy	0	0%		
		Model	0	0%		
Consonant Labiodental sound [f v]	/f/	Festival	0	0%	35%	Very low
		Fact	0	0%		
	/v/	Vibrant	68	91%		
		View	37	49%		
Consonant Dental sound [θ ð]	/θ/	Through	68	91%	65%	Medium
	/ð/	The	37	49%		
		Their	41	55%		
Consonant Alveolar sound [t d n s z l]	/t/	Teapot	0	0%	6%	Very low
		Timeline	0	0%		
	/d/	Drum	0	0%		
		Display	0	0%		
	/n/	New	0	0%		
		Next	0	0%		
	/s/	Student	0	0%		
	/z/	Zeus	0	0%		
		Using	48	64%		
	/l/	Landmark	0	0%		
Consonant postalveolar sound [ʃ, ʒ, ʧ, ʤ]	/ʃ/	Showcased	60	80%	50%	Low
		Showing	22	29%		
	/ʒ/	Measure	67	89%		
	/ʧ/	Teach	2	3%		
		Culture	67	89%		
	/ʤ/	Project	0	0%		
		Energy	45	60%		
Consonant Retroflex sound [r]	/r/	Research	1	1%	1%	Very low
Consonant Palatal sound [j]	/j/	Japan	0	0%	0%	Very low
		Jack	0	0%		
Consonant Velar sounds	/k/	Kimono	0	0%		
		Climate	0	0%		

[k g ŋ]	/g/	Glue	0	0%	7%	Very low
		Gondola	0	0%		
	/ŋ/	Sphinx	32	43%		
		Everything	0	0%		
Consonant Glottal sound [h]	/h/	Highlight	0	0%	0%	Very low
		History	0	0%		
		TOTAL	**597**	**793%**	**164%**	

Based on the table above, the most dominant sound errors made by the eleventh-grade students at SMAN 7 Pekanbaru occurred in the category of Dental consonants, which consist of the sounds [θ] and [ð]. The researcher calculated the average error rates for each sound and found that errors in pronouncing [θ] reached 91%, while errors in pronouncing [ð] were recorded at 49% and 55%, resulting in an average error rate of 52% for [ð]. This analysis indicates that the [θ] sound had the highest error rate at 91%, placing it in the "very high" error category. Therefore, it can be concluded that the most dominant pronunciation error made by the students occurred in the Dental consonant [θ].

B. Discussion

The findings of this study reveal that the most frequent pronunciation errors made by the eleventh-grade students of SMAN 7 Pekanbaru occurred with dental sounds ([θ]). This is consistent with previous research, such as Muhammad Ishak (2021), who also identified significant difficulties with dental sounds. Similarly, errors in postalveolar sounds, particularly in words like measure and culture, with error rates ranging from 80-89%, align with Ishak's

findings and further highlight a pattern of challenges with specific consonant sounds.

The results also corroborate studies by Muhammad Idhar (2017) and Ninin Jariyah (2020), which found that English learners often struggle with labiodental and dental sounds. While this study observed very low error rates for bilabial, alveolar, retroflex, palatal, velar, and glottal sounds (ranging from 0% to 7%), the consistent struggles with dental and postalveolar sounds emphasize the need for focused attention on these areas.

These findings suggest that targeted pronunciation practice is crucial to address these challenges. Teaching interventions should emphasize articulation techniques, particularly the placement of the tongue, lips, and airflow control, to help students better produce dental and postalveolar sounds. By incorporating these strategies into pronunciation training, educators can help reduce errors and improve overall pronunciation skills, addressing key areas of difficulty identified in this study.