

CHAPTER III

PRESENTATION AND ANALYSIS OF THE DATA

This chapter is divided into four subchapters, each of which consists of presentation and analysis of the data. In presentation of the data, after collecting and transcribing the data, the writer classifies and puts the words of the respondents, utterances in tables. Then, the writer analyses the changes of phonemes based on types of phonological changes, either of consonants or of vowels.

3.1 RESPONDENT A

As the writer mention in the previous chapter, respondent A is Nurul Rabiah. She is eight years old. Based on four types of Phonologic Errors, she frequently substitutes and omits phonemes as shown in the following tables.

3.1.1 Substitution

Table a.1. Substitution of / b / for / bh /

Words	Intended Sound	Sound Change	Meaning
bhakalan	[bh ə kalan]	[bəkalan]	Fiance
bhuto	[bhutɔ]	[buto]	Need
bhiruh	[bhiruh]	[biru]	Blue
bhutaq	[bhujəq]	[butaq]	Bold
kabhuruh	[kabhuruh]	[kaburu]	In a hurry
abhazang	[abhəzəŋ]	[abəzəŋ]	Pray
bharis	[bhəris]	[bəris]	March
ŋgabbher	[ŋabbhər]	[ŋabbə]	Fly
kalambi	[kalambhi]	[kalambi]	Cloth
tambha	[tambhə]	[tambə]	Medicine
sabbhuq	[sabbhuq]	[sabbug]	Belt

Respondent A substitutes *voiceless bilabial stop* *b* for *voiced bilabial stop* *bh* occurring in initial position as in [bakalan] for [bhakalan]; [buto] for [bhutɔ]; [biru] for [bhiruh]; and [butaq] for [bhujəq]. She also misarticulates this phoneme that occurs in the middle position as in [kaburu] for [kabhuruh]; [abəzəŋ] for [abhəzəŋ]; [bəris] for [bhəris]; [ŋabbə] for [ŋabbhər]; [kalambi] for [kalambhi]; [tambə] for [tambhə] and [sabbug] for [sabbhuq].

Table a.2. Substitution of / z / for / zh /

Words	Intended Sound	Sound Change	Meaning
zhezhen	[zhəzhən]	[zəzən]	Cake
zeih	[zhəih]	[zəi]	Ginger
zheghe	[zhəghə]	[zəgə]	Wake up
zharan	[zhərən]	[zərən]	Horse
zhujhur	[zhuzhur]	[zuzu]	Honest
zhaq	[zhəq]	[zəgə]	Don't
zhamoh	[zhəməh]	[zəmə]	Herbs
zhila	[zhilə]	[zilə]	Tongue
zhau	[zhəu]	[zəu]	Far
genzal	[ghənzəl]	[gənzəl]	Wedge
ozhan	[ɔzhən]	[ozən]	Rain

Respondent A substitutes *voiced palatal stop / z /* for *aspirated palatal stop / zh /* occurring in the initial position as in [z ə z ə n] for [zhəzhən]; [z ə i] for [zhəih]; [z ə g ə] for [zhəghə]; [z ə r ə n] for [zhərən]; [zuzu] for [zhuzhur]; [z ə g] for [zhəq]; [z ə mə] for [zhəməh]; [zilə] for [zhilə]; and [zəu] for [zhəu]. The substitutions of / z / for / zh / are also occurred in the middle position as in [g ə n z ə l] for [ghənzəl] and [oz ə n] for [ɔzhən].

Table a.3. Substitution of / g / for / gh /

Words	Intended Sound	Sound Change	Meaning
gentong	[ghəntʰəŋ]	[gəntʰəŋ]	Large bowl for water
ghula	[ghulə]	[gulə]	Sugar
ghimang	[ghiməŋ]	[giməŋ]	Confuse
ghighi	[ghighi]	[gigi]	Tooth
ghighir	[ghighir]	[gigi]	Angry
negguq	[nɛgghuq]	[neggug]	Hold
lagghuq	[lagghuq]	[laggug]	Tomorrow
penanggalan	[pənəŋghələn]	[pənəŋgələn]	Calendar
aghalatang	[aghələtəŋ]	[agələtəŋ]	Be hanging
baghi	[bəghi]	[bəgi]	Give
engghi	[ɛŋghi]	[ɛŋgi]	Yes
seggar	[sɛgghər]	[sɛggə]	Fresh

Respondent A substitutes *voiced velar stop / g /* for *aspirated velar stop / gh /* occurring in the initial position as in [g ə n t ʰ ə ŋ] for [gh ə n t ʰ ə ŋ]; [gulə] for [ghulə]; [giməŋ] for [ghiməŋ]; and she pronounces [gigi] instead of [ghighi] and [ghighir]. She also substitutes / g / for / gh / occurs in the middle position as in [neggug] for [nɛ gghuq]; [laggug] for [lagghuq]; [pənəŋgələn] for [pənəŋghələn]; [agələtəŋ] for [aghələtəŋ]; [bəgi] for [bəghi]; [ɛŋgi] for [ɛŋghi]; [ɛŋgi] for [ɛŋghi]; and [sɛggə] for [sɛgghər].

Table a.4. Substitution of / d / for / dh /

Words	Intended Sound	Sound Change	Meaning
meddhiq	[mɛ ddhiq]	[meddi]	Unable
beddaq	[bəddhəq]	[bəddəg]	Powder
baddha	[bəddhə]	[bəddə]	Exist
bandhar	[bəndhər]	[bəndə]	Croupier
pondhug	[pəndhug]	[pəndug]	Muslim boarding house
saddhi	[səddhi]	[səddi]	Sad

Respondent A substitutes the *voiced dental stop* / d / for *aspirated dental stop* / dh / occurring in the middle position as in [meddi] for [mɛddhiq]; [bəddəg] for [bəddhəq]; [bəddə] for [bəddhə]; [bəndə] for [bəndhər]; [pəndug] for [pəndhug]; and [səddi] for [səddhi].

Table a.5. Substitution of /t/ for /t̚/

Words	Intended Sound	Sound Change	Meaning
gentong	[ghənt̚ɔŋ]	[gəntɔŋ]	Large bowl for water
bhutaŋ	[bhut̚aŋ]	[butaŋ]	Bold
cetaŋ	[cɛt̚aŋ]	[cetəŋ]	Head
akanta	[akant̚a]	[akanta]	Alike
kotaŋ	[kot̚aŋ]	[kotaŋ]	Box
mentɔŋ	[mənt̚ɔŋ]	[məntɔŋ]	To club
cetɔŋ	[cɛt̚ɔŋ]	[cetɔŋ]	Shovel

Respondent A changes the place of articulation of phonemes occurring in the middle position as in [gəntɔŋ] for [ghənt̚ɔŋ]; [butaŋ] for [bhut̚aŋ]; [cetəŋ] for [cɛt̚aŋ]; [akanta] for [akant̚a]; [kotaŋ] for [kot̚aŋ]; [məntɔŋ] for [mənt̚ɔŋ]; and [cetɔŋ] for [cɛt̚ɔŋ]. In this case, she substitutes the *voiceless dental stop* /t/ for the *voiceless alveolar stop* /t̚/.

Table a. 6. Substitution of / d / for / ɖ /

Words	Intended Sound	Sound Change	Meaning
raddhin	[ra ɖɖin]	[raddin]	Beautiful
ladding	[laɖɖiŋ]	[laddiŋ]	Knife
dusa	[ɖusa]	[dusa]	Sin
durin	[ɖurin]	[durin]	Durian
dagang	[ɖəghəŋ]	[dəgəŋ]	Business
damar	[ɖəmar]	[dəma]	Lamp
sazada	[səzəɖə]	[səzədə]	Prayer rug
adinaaghi	[ɛɖinaaghi]	[edinaagi]	be neglected
dadi	[ɖeɖi]	[dedi]	Become

Respondent A substitutes *voiced dental stop* / d / for *voiced alveolar stop* . ɖ / occurring either in the initial or middle position , such as *raddhin* [raddin] ; *ladding* [laddiŋ] ; *dusa* [dusa] ; *durin* [durin] ; *dagang* [dəgəŋ] ; *damar* [dəma] ; *sazada* [səzədə] ; *adinaaghi* [edinaagi] ; and *dadi* [dedi] .

Table a.7. Substitution of /g/ for /q/

Words	Intended Sound	Sound Change	Meaning
lagghuq	[lagghuq]	[laggug]	Tomorrow
agellaq	[aghəlləq]	[agəlləg]	Laugh
beddaq	[bəddhəq]	[bəddəg]	Powder
manoq	[manɔq]	[manog]	Bird
negguq	[nɛgghuq]	[neggug]	Hold
balluq	[bəlluq]	[bəllug]	Eight
sabbhuq	[sabbhuq]	[sabbug]	Belt
ngalaq	[ŋalaq]	[ŋalag]	Get

Respondent A often substitutes the *glottal* / q / with the *voiced velar stop* / g / which occurs in the final position as seen in the following word : [laggug] for [lagghuq] ; [agəlləg] for [aghəlləq] ; [bəddəg] for [bəddhəq] ; [manog] for [manɔq] ; [neggug] for [nɛgghuq] ; [bəllug] for [bəlluq] ; [sabbug] for [sabbhuq] ; and [ŋalag] for [ŋalaq] .

3.1.2 Omission

Table a.8. Omission of /h/

Words	Intended Sound	Sound Change	Meaning
kabhuruh	[kabhuruh]	[kaburu]	In a hurry
zhamoh	[zhəməh]	[zəmə]	Herbs
zeih	[zəih]	[zəl]	Ginger
bhiruh	[bhiruh]	[biru]	Blue

Respondent A omits *breath* h / if it occurs in the final position, such as *kabhuruh* [kaburu]; *zhamoh* [zəmə]; *zeih* [zəl]; and *bhiruh* [biru].

Table a.9. Omission of /r/

Words	Intended Sound	Sound Change	Meaning
damar	[dəmar]	[dəmə]	Lamp
bandhar	[bændhər]	[bændə]	Croupier
seggar	[səgghər]	[səggə]	Fresh
gegger	[ghəgghər]	[gəgə]	Fall
nabbher	[nabbhər]	[nabbə]	Fly
zhuzhur	[zhuzhur]	[zuzu]	Honest
meller	[məllər]	[məllə]	Naughty
tellor	[təllər]	[təllə]	Egg
neser	[nəsər]	[nesə]	Pity

Respondent A pronounces *apikal trill* / r / clearly only if it occurs in the initial and middle positions. She pronounces / r / as seen in the words *ruwa* [ruwa], *terro* [t rro], *kabhuruh* [kaburu]. She omits / r / if it occurs in the final position , such as [d̩ama] for [d̩amar]; [b̩əndə] for [b̩əndh̩ər]; [s̩əggə] for [s̩əggh̩ər]; [zuzu] for [zhuzhur]; [nesə] for [n̩ɛsər].

Table a.10. Omission of / q /

Words	Intended Sound	Sound Change	Meaning
meddhiq	[mɛddhiq]	[meddi]	Unable
engaq	[ɛŋaq]	[ɛŋa]	Remember
sampeq	[sampɛq]	[sampe]	Until

Respondent A omits the *glottal* / q occurring in the final position preceded by *high front vowel* / i / , *central low vowel* / a / , and *low front vowel* / ɛ / , as seen in *meddhiq* [meddi]; *engaq* [ɛŋa]; and *sampeq* [sampe].

3.1.3 Vowel Changes

Table a. 11. Substitution of /o/ for /ɔ/

Words	Intended Sound	Sound Change	Meaning
gunung	[ghunɔŋ]	[gunoŋ]	Mountain
tellor	[tɛllɔr]	[tɛllo]	Egg
manoq	[manɔq]	[manog]	Bird
kobhuran	[kɔbhurɔn]	[koburɔn]	Grave
ozhan	[ɔzhɔn]	[ozɔn]	Rain
taon	[taɔn]	[taon]	Year

Respondent A substitutes *middle back vowel /o/* for *low back vowel /ɔ/* occurring in all positions as in *gunung* [gunoŋ]; *manoq* [manog]; *kobhuran* [koburɔn]; *ozhan* [ozɔn]; *taon* [taon]; and *tellor* [tɛllo].

Table a.12. Substitution of /e/ for /ɛ/

Words	Intended Sound	Sound Change	Meaning
tingghi	[tɛŋghi]	[teŋgi]	High
meddhiq	[mɛ ddhiq]	[meddi]	Unable
tape	[tapɛ]	[tape]	But
neser	[nɛsɛr]	[nesɛ]	Pity
sampeq	[sampɛq]	[sampe]	Until
marena	[marɛna]	[marena]	After

Respondent A substitutes *middle front vowel* / e / for *low front vowel* / ɛ / when it occurs in the middle and final position of a word as in *tingghi* [tengi]; *meddhiq* [meddi]; *marena* [marena]; *neser* [nesə]; *tape* [tape]; and *sampeq* [sampe].

Table a.13. Substitution of /ə/ for /ɛ/

Words	Intended Sound	Sound Change	Meaning
aghalatang	[aghələtɛŋ]	[agələtəŋ]	Be hanging

Respondent A substitutes *high central vowel* / ə / for *low front vowel* / ɛ / when it occurs before *velar nasal consonant* / ŋ / as in *aghalatang* [agələtəŋ].

Table a.14. Substitution of /ə/ for /a/

Words	Intended Sound	Sound Change	Meaning
zareya	[zəreya]	[zəreyə]	That
satiya	[satiya]	[sətiyə]	Right now

Respondent I substitutes *high central vowel* / ə / for *low central vowel* / a / occurring in the final position of a word as in *zareya* [z ə rey ə] and *satiya* [s ə tiy ə].

3.2 RESPONDENT B

Respondent B is Azura. She is thirteen years old. Based on four types of Phonologic Errors, she frequently substitutes and omits phonemes as shown on the following tables.

3.2.1 SUBSTITUTION

Table b.1. Substitution of / b ' for / bh /

Words	Intended Sound	Sound Change	Meaning
kabhuruh	[kabhuruh]	[kaburu]	In a hurry
abhazang	[abhəzəŋ]	[abəzəŋ]	Pray
ngabbher	[ŋabbhər]	[ŋabbə]	Fly
kobhuran	[kɔbhurən]	[kɔburən]	Grave

Respondent B substitutes the *aspirated bilabial stop* / bh / for *voiced bilabial stop* / b / when it occurs in the middle position as in *kabhuru* [kaburu]; *abhazang* [abəzəŋ]; *ngabbher* [ŋabbə]; and *kobhuran* [kɔburən]. But if / bh / occurs in the initial position , she will pronounce it well, such as *bhakalan* [bhəkalan]; *bhuto* [bhuto] ; *bhiruh* [bhiru] ; and *bhutaq* [bhutaq].

Table b.2. Substitution of / z / for / zh /

Words	Intended Sound	Sound Change	Meaning
zhamoh	[zhəməh]	[zəmə]	Herbs
zhila	[zhilə]	[zilə]	Tongue
zharan	[zhərən]	[zərən]	Horse
zhuzhur	[zhuzhur]	[zuzu]	Honest
zhaq	[zhəq]	[zəq]	Don't
ozhan	[ɔzhən]	[ɔzən]	Rain
konzhung	[khɔnzhuŋ]	[kɔnzuŋ]	Visit

Respondent B substitutes *voiced palatal stop* : z / for *aspirated palatal stop* / zh / occurring in the initial position as in [zəmə] for [zhəməh]; [zilə] for [zhilə]; [zərən] for [zhərən]; [zuzu] for [zhuzhur]; [zəq] for [zhəq]. The substitutions of / z / for / zh / also occurs in the middle position as in [ɔzən] for [ɔzhən]; [kɔnzuŋ] for [khɔnzhuŋ].

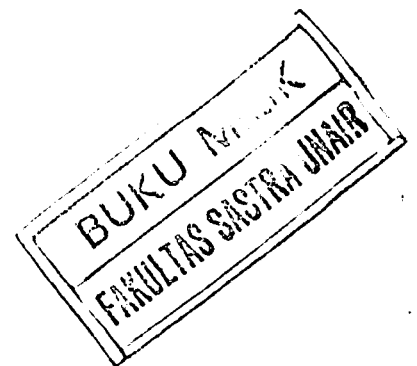


Table b.3. Substitution of / g / for / gh /

Words	Intended Sound	Sound Change	Meaning
ghardhu	[gərdhu]	[gərdu]	Guardhouse
gentong	[ghəntɔŋ]	[gəntɔŋ]	Large bowl for water
penanggalan	[pənanɣhələn]	[pənanɣələn]	Calendar
aghalatang	[aghələtɛŋ]	[aɣələtɛŋ]	Be hanging
tingghi	[tɛŋghi]	[tɛŋgi]	High
agellaq	[aghəlɛq]	[aɣəlɛq]	Laugh
negguq	[nɛgghuq]	[nɛggug]	Hold
genzal	[ghənzəl]	[gənzəl]	Wedge
lagghuq	[lagghuq]	[laggug]	Tomorrow
dagang	[dəghəŋ]	[dəgəŋ]	Business

Respondent B substitutes *voiced velar stop* / g / for *aspirated velar stop* / gh / occurring in the initial position as in [gərdu] for [ghərdhu] and [gəntɔŋ] for [ghəntɔŋ]. She also substitutes / g / for / gh / occurring in the middle position as in [pənanɣələn] for [pənanɣhələn]; [aɣələtɛŋ] for [aghələtɛŋ]; [tɛŋgi] for [tɛŋghi]; [aɣəlɛq] for [aghəlɛq]; [nɛggug] for [nɛgghuq]; [gənzəl] for [ghənzəl]; [laggug] for [lagghuq], and [dəgəŋ] for [dəghəŋ].

Table b.4. Substitution of / d / for / dh /

Words	Intended Sound	Sound Change	Meaning
meddhiq	[mɛddhiq]	[meddi]	Unable
baddha	[bəddhə]	[bəddə]	Exist
beddaq	[bəddhəq]	[bəddə]	Powder
bandhar	[bəndhər]	[bəndə]	Croupier
pondhug	[pəndhug]	[pəndug]	Muslim boarding house

Respondent B substitutes *aspirated dental stop* / dh / with *voiced dental stop* / d / occurring in the middle position as in *meddhiq* [meddiq]; *pondhug* [pəndug]; *beddaq* [bəddəq]; *baddha* [bəddə]; and *bandhar* [bəndə].

Table b.5. Substitution of / t / for / ʈ /

Words	Intended Sound	Sound Change	Meaning
gentong	[ghəntʰɔŋ]	[gəntəŋ]	Large bowl for water
bhutaq	[bhutʰaŋ]	[butaŋ]	Bold
kotak	[kɔtʰaŋ]	[kɔtaŋ]	Box
mentong	[mənʰtʰɔŋ]	[mənʰtəŋ]	To club
cetoq	[cɛtʰɔŋ]	[cɛtəŋ]	Shovel
cetaq	[cɛtʰaŋ]	[cɛtaŋ]	Head

Respondent B is unable to pronounce *voiceless alveolar stop* / ʈ /. She substitutes it with *voiceless dental stop* / t / occurring in the middle position, such as *gentong* [ghəntəŋ]; *bhutaq* [butaŋ]; *cetaq* [cetaŋ]; *akanta* [akanta]; *kotaq* [kɔtaŋ]; and *mentong* [mənʰtəŋ].

Table b. 6. Substitution of / d / for / ɖ /

Words	Intended Sound	Sound Change	Meaning
raddhin	[rɖɖin]	[raddin]	Beautiful
Ladding	[lɖɖiŋ]	[laddin]	Knife
Dusa	[ɖusa]	[dusa]	Sin
durin	[ɖurin]	[durin]	Durian
dagang	[ɖəŋgəŋ]	[dəgəŋ]	Business
damar	[ɖəmar]	[dəma]	Lamp
sazada	[sɖzɖə]	[səzədə]	Prayer rug
dulian	[ɖuliən]	[duliən]	Quickly

Respondent B substitutes phoneme by changing place of articulation as in the substitution of *voiced dental stop* / d / for *voiced alveolar stop* / ɖ / occurring in the initial and middle positions. She pronounces / ɖ / as / d / . such as *raddhin* [rɖɖin]; *ladding* [lɖɖiŋ] ; *dusa* [dusa] ; *durin* [durin] ; *dagang* [dəgəŋ] ; *damar* [dəma] ; *sajadah* [səzədə] ; and *dulian* [duliən] .

Table b.7. Substitution of / g / for / q /

Words	Intended Sound	Sound Change	Meaning
manoq	[manɔq]	[manog]	Bird
negguq	[nɛgghuq]	[nɛggug]	Hold

Respondent B does not substitute *velar voiced stop* / g / for *glottal* / q / when it occurs after *central high vowel* / ə / as in *beddaq* [bəddə]. She substitutes

/g/ for / q / when it occurs after low back vowel /ɔ/ and high back vowel /u/ such as *manoq* [mano g] and *negguq* [neggug].

3.2.2 OMISSION

Table b. 8. Omission of h/

Words	Intended Sound	Sound Change	Meaning
zhamoh	[zhəməh]	[zəmo]	Herbs
kabhuruh	[kabhuruh]	[kaburu]	In a hurry
zeih	[zəih]	[zəl]	Ginger
konah	[kɔnah]	[kɔna]	Ancient

Respondent B omits *breath* h/ if it occurs in the final position, such as *zhamoh* [zəmo]; *kabhuruh* [kaburu]; *zeih* [zəl]; and *konah* [kɔna].

Table b. 9. Omission of /r/

Words	Intended Sound	Sound Change	Meaning
ruwa	[ruwa]	[ruwa]	That
terro	[tərrɔ]	[tərou]	Love
kabhuruh	[kabhuruh]	[kaburu]	In a hurry
ancor	[ancɔr]	[anco]	Shattered

She pronounces *Apikal Trill /r/* clearly only if it occurs in the initial and middle positions. She pronounces /r/ as seen in the words *ruwa* [ruwa], *terro* [tərrou], *kabhuruh* [kaburu]. She omits /r/ if it occurs in the final position, such as *ancor* [anco].

3.2.3. VOWEL CHANGES

Table b. 10 Substitution of /o/ for /ɔ/

Words	Intended Sound	Sound Change	Meaning
gunung	[ghunɔŋ]	[gunoŋ]	Mountain
tellor	[tɛllɔr]	[tɛllo]	Egg
manoq	[manɔq]	[manog]	Bird
zhamoh	[zhəmɔh]	[zəmo]	Herbs

Respondent B is able to utter the *low back vowel /ɔ/* if it occurs in the first syllable, such as in the word *noles* [nɔles]; *konah* [kɔna]; and *kobhuran* [kɔburən]. But she substitutes the *middle back vowel /o/* for the *low back vowel /ɔ/* if it occurs in the middle position, and in the final position of a word such as in the words: *gunung* [gunoŋ], *tellor* [tɛllo]; *manoq* [manog]; *ancor* [anco] and *zhamoh* [zəmo].

Table b. 11 Substitution of / ou / for /ɔ/

Words	Intended Sound	Sound Change	Meaning
terro	[tərɔ]	[tərrou]	Love

Respondent B substitutes *diphthong* / ou / for *low back vowel* /ɔ/ occurring in the final position as in *terro* [tərrou].

Table b. 12 Substitution of / e / for /ɛ/

Words	Intended Sound	Sound Change	Meaning
tape	[tapɛ]	[tape]	But
noles	[nɔlɛs]	[nɔles]	write
korse	[kɔrsɛ]	[kɔrse]	chair

Respondent B is able to utter the *low front vowel* /ɛ/ if it occurs in the initial position and the first syllable as in *engaq* [ɛŋaq], *meddhiq* [mɛddi] : and *tingghi* [tɛŋgi]. But she substitutes *middle front vowel* / e / for *front low vowel* /ɛ/ if it occurs in the final position and in the last syllable as in *tape* [tape]; *noles* [nɔles]; and *korse* [kɔrse].

3.3 RESPONDENT C

Respondent C is a fourteen -year old Malaysian named Nor Laila. Based on four types of Phonologic Errors, she frequently substitutes and omits phonemes as shown on the following tables.

3.3.1 Substitution

Table c.1. Substitution of / b / for / bh /

Words	Intended Sound	Sound Change	Meaning
bhakalan	[bhə kалан]	[bəkalan]	Fiance
bhuto	[bhutɔ]	[butɔ]	Need
bhiruh	[bhiruh]	[biru]	Blue
bhutag	[bhufag]	[butag]	Bold

Respondent C substitutes *aspirated bilabial stop / bh /* for *voiced bilabial stop / b /* when it occurs in the initial position as in *bhakalan* [bəkalan]; *bhuto* [butɔ]; *bhiruh* [biru]; and *bhutag* [butag]. She pronounces it well if / bh / occurs in the middle position , such as *kabhuruh* [kabhuru]; *abhazang* [abhə z əŋ]; *ngabbher* [ŋabbhə]; *kobhuran* [kɔ b urən]; and *sabbhar* [sabbhə].

Table c. 2. Substitution of / z / for / zh /

Words	Intended Sound	Sound Change	Meaning
genzal	[ghənzəl]	[gənzəl]	Wedge
ozhan	[ɔzhən]	[ɔzən]	Rain

Respondent C is able to pronounce *aspirated palatal stop* / zh / if it occurs in the initial position as in *zhuzhur* [zhuzu]; *zhubeq* [zhubəq]; *zhalan* [zhələn]; and *zhila* [zilə]. But she substitutes it with *voiced palatal affricate* / z / if it occurs in the middle position as in *genzal* [ghənzəl] and *ozhan* [ozən].

Table c.3. Substitution of / g / for / gh /

Words	Intended Sound	Sound Change	Meaning
penanggalan	[pənanḡələn]	[pənanḡələn]	Calendar
onggha	[ɔḡhə]	[ɔḡə]	Go up
tingghi	[tɛḡhi]	[tɛḡi]	Tall / High
angghuy	[aḡhuy]	[aḡuy]	Use

Respondent C is unable to pronounce *aspirated velar stop* / gh / occurring after *velar nasal* / ŋ / as in *onggha* [ɔḡə]; *tingghi* [tɛḡi]; *angghuy* [aḡuy]; *penanggalan* [pənanḡələn]. She substitutes / gh / with *voiced velar stop* / g /. She is able to pronounce / gh / if it occurs in the initial position or after a *voiced velar stop consonant* / g / as in *gentong* [ghəntɔḡ]; *ghardhu* [ghərdu]; *aghalatang* [aghələtɛḡ]; *negguq* [negghug]; *genzal* [ghənzəl]; *ghila* [ghilə]; *lagghuq* [lagghug]; and *gegger* [ghəḡhə].

Table c. 4. Substitution of / d / for / dh /

Words	Intended Sound	Sound Change	Meaning
beddaq	[bəddhə q]	[bəddə q]	Powder
baddha	[bəddhə]	[bəddə]	Exist
bandhar	[bəndhər]	[bəndə]	Croupier
baddhana	[bəddhəna]	[bəddəna]	Bowl

Respondent C is able to pronounce *aspirated dental stop* / dh / occurs before *high front vowel* / i / and *high back vowel* / u / as in *meddhiq* [meddhiq] ; *pondhug* [pɔndhug]. She substitutes / dh / with *voiced dental stop* / d / occurs after / d / and *apikal nasal* / n / as in *beddaq* [bəddə q] ; *baddha* [bəddə] ; *bandhar* [bəndə] ; and *baddhana* [bəddəna] .

Table c.5. Substitution of / t / for / ʈ /

Words	Intended Sound	Sound Change	Meaning
gentong	[ghəntʰɔŋ]	[ghəntəŋ]	Large bowl for water
bhutag	[bhufʈag]	[butag]	Bold
akanta	[akanʈa]	[akanta]	Alike
kotak	[kɔʈag]	[kɔtag]	Box
mentong	[məntʰɔŋ]	[məntəŋ]	To club

Respondent C changes the place of articulation of *voiceless alveolar stop* / t̚/. She substitutes it with *voiceless dental stop* / t / occurring in the middle position, such as *gentong* [ghəntɔŋ]; *bhutag* [butag]; *akanta* [akanta]; *kotaq* [kɔtag]; and *mentong* [məntɔŋ].

Table c.6 Substitution of / d / for / ɖ /

Words	Intended Sound	Sound Change	Meaning
raddhin	[raɖɖin]	[raddin]	Beautiful
ladding	[laɖɖiŋ]	[laddiŋ]	Knife
dusa	[ɖusa]	[dusa]	Sin
durin	[ɖurin]	[durin]	Durian
dagang	[ɖəŋgəŋ]	[dəŋgəŋ]	Business
damar	[ɖəmar]	[dəma]	Lamp
sazada	[səzəɖə]	[səzədə]	Prayer rug
dalem	[ɖələm]	[dələm]	Home

Respondent C substitutes *voiced dental stop* / d / for *voiced alveolar stop* / ɖ / that occurs in the initial position as in *dusa* [dusa]; *durin* [durin]; *dagang* [dəŋgəŋ]; *damar* [dəma]; and *dalem* [dələm]. But she does not change the place of articulation of / d / if it occurs in the middle position, such as *raddhin* [raddin]; *ladding* [laddiŋ]; and *sazada* [səzədə].

3.3.2 Omission

Table c. 7. Omission of /h/

Words	Intended Sound	Sound Change	Meaning
kabhuruh	[kabhuruh]	[kabhuru]	In a hurry
zeih	[zəih]	[zəl]	Ginger
bhiruh	[bhiruh]	[biru]	Blue

Respondent C omits *breath* /h/ if it occurs after *high vowels* /u/ and /i/ such as *kabhuruh* [kaburu], *bhiruh* [biru]; and *zeih* [zəl].

Table c.8 . Omission of /r/

Words	Intended Sound	Sound Change	Meaning
damar	[dəmar]	[dəma]	Lamp
bandhar	[bəndhər]	[bəndə]	croupier
seggar	[səgghər]	[səggə]	Fresh
gegger	[ghəgghər]	[ghəggə]	Fall
ngabbher	[ŋabbhər]	[ŋabbə]	Fly
zhuzhur	[zhuzhur]	[zhuzu]	Honest
meller	[məllər]	[məllə]	Naughty
tellor	[təllər]	[təllə]	Egg
neser	[nəseər]	[nese]	Pity

Respondent C pronounces *apikal trill* / r / clearly only if it occurs in the initial and middle positions. She pronounces / r / as seen in the words : *ruwa* [ruwa], *terro* [tərɾɔ], *kabhuruh* [kaburu]. She omits / r / if it occurs in the final position, whatever the preceding vowel is, such as *damar* [dəma]; *meller* [məllə], *tellor* [təllɔ]; and *zhuzhu* [zhuzu].

3.3.3 Vowel Changes

Table c. 9. Substitution /ɛi/ for /ɛ/

Words	Intended Sound	Sound Change	Meaning
tape	[tapɛ]	[tapɛi]	But

Respondent C substitutes *middle front vowel* / e / for a new diphthong either for Madurese or Malay Language /ɛ I / if it occurs in the final position , as in *tape* [tapɛI]. She is able to pronounce *low front vowel* / ɛ / if it occurs in the initial and middle positions as in *engaq* [ɛŋaɔ] and *noles* [nɔles]. In the writer's opinion, Respondent C tends to diphthongized /ɛ/ become /ɛi/.

3.4 RESPONDENT D

Respondent C is a thirteen-year old Malaysian named Mazzura. Based on four types of Phonologic errors, she frequently substitutes, omits, and adds phonemes as shown on the following tables.

3.4.1 Substitution

Table d. 1. Substitution of / t / for / ʔ /

Words	Intended Sound	Sound Change	Meaning
gentong	[ghənʔŋ]	[gəntŋ]	Large bowl for water
bhutag	[bhʊʔag]	[bhutag]	Bold
kotak	[kŋʔag]	[kŋtag]	Box
mentong	[məŋʔŋ]	[məntŋ]	To club
cetoq	[cɛʔŋq]	[cɛtŋq]	Shovel
lontong	[lŋntŋ]	[lŋntŋ]	Rice steamed in a banana leaves

Respondent D changes the place of articulation of *voiceless alveolar stop* / ʔ / occurring in the middle position. She substitutes it with *voiceless dental stop* / t /, such as *gentong* [ghəntŋ]; *bhutag* [butag]; *kotak* [kŋtag]; *mentong* [məntŋ]; *cetoq* [cɛtŋq]; and *lontong* [lŋntŋ].

Table d. 2. Substitution of / d / for / d̪ /

Words	Intended Sound	Sound Change	Meaning
raddhin	[r ə d̪ d̪ in]	[r ə d d in]	Beautiful
ladding	[l ə d̪ d̪ iŋ]	[l ə d d iŋ]	Knife
dusa	[d̪ u s ə]	[d u s ə]	Sin
durin	[d̪ u r in]	[d u r in]	Durian
dagang	[d̪ ə g ə ŋ]	[d ə g ə ŋ]	Business
damar	[d̪ ə m ə r]	[d ə m ə r]	Lamp
sazada	[s ə z ə d̪ ə]	[s ə z ə d ə]	Prayer rug
disa	[d̪ i s ə]	[d i s ə]	Village

Respondent D substitutes *voiced dental stop* / d / for *voiced alveolar stop* / d̪ / that occurs in the initial position as in *dusa* [dusa] ; *durin* [durin] ; *dagang* [d ə g ə ŋ] ; *damar* [d ə m ə] ; and *disa* [disa]. But she does not change the place of articulation of / d / if it occurs in the middle position, such as *raddhin* [raddin] ; *ladding* [laddiŋ] ; and *sazada* [s ə z ə d ə] .

3.4.2 OMISSION

Table d. 3. Omission of / h /

Words	Intended Sound	Sound Change	Meaning
kabhuruh	[k ə b h u r u h]	[k ə b h u r u]	In a hurry
bhiruh	[b h i r u h]	[b i r u]	Blue

Respondent D omits *breath /h/* occurring after *back high vowels /u/* such as *kabhuruh* [kabhuru] and *bhiruh* [bhiru]. She does not omit /h/ if it occurs after *low vowels* such as *zhamoh* [zəməh] and *konah* [kɔnəh].

Table d. 4. Omission of /r/

Words	Intended Sound	Sound Change	Meaning
bandhar	[b əndhər]	[bəndhə]	croupier
seggar	[səgghər]	[səgghə]	Fresh
gegger	[ghəgghər]	[ghəgghə]	Fall
ngabbher	[ŋəbbhər]	[ŋəbbhə]	Fly
neser	[nɛsər]	[nɛsə]	Pity

Respondent D pronounces the *apikal trill /r/* clearly only if it occurs in the initial and middle positions as seen in the following words : *ruwa* [ruwa]; *terro* [tɛrɔ]; *kabhuruh* [kabhuru]. She is able to produce /r/ in the final position preceded by all vowels except *central high vowel /ə/*, such as *damar* [dəmar]; *tellor* [təllor]; *omor* [ɔmɔr]; and *zhuzhur* [zhuzhur].



3.4.3 ADDITION

Table d. 5. Addition of /h/

Words	Intended Sound	Sound Change	Meaning
mera	[m εra]	[m εrah]	Red
sera	[sεra]	[sεrah]	Who
korse	[kɔrsε]	[kɔrsεh]	Chair
rato	[ratɔ]	[ratɔh]	Queen

Respondent D adds the *Breath* / h / after the *central low vowel* / a /, *front low vowel* / ε /, and *back vowel* / ɔ / occurring in the *final position*, such as *mera* [m εrah]; *sera* [sεrah]; *korse* [kɔrsεh]; and *rato* [ratɔh].

CHAPTER IV

CONCLUSION AND SUGGESTIONS