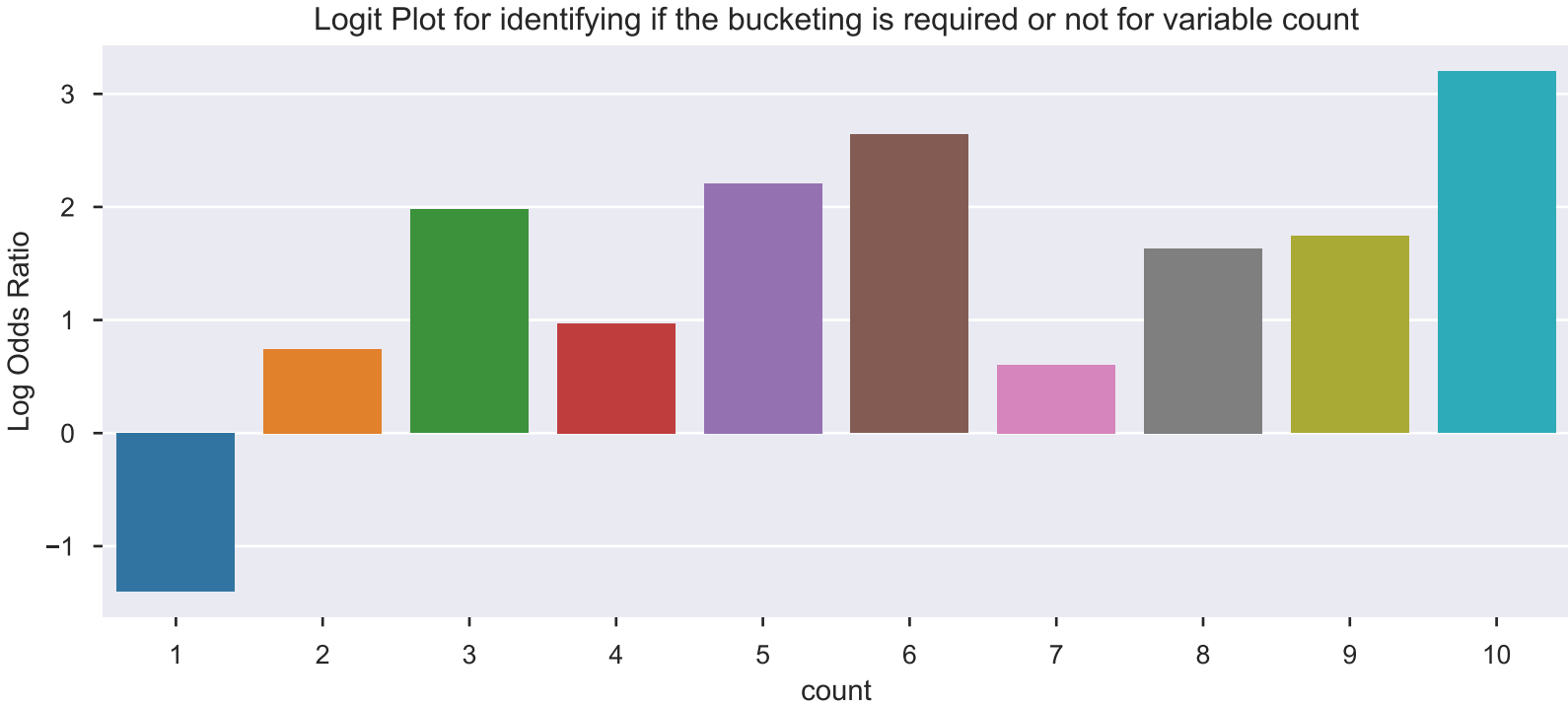
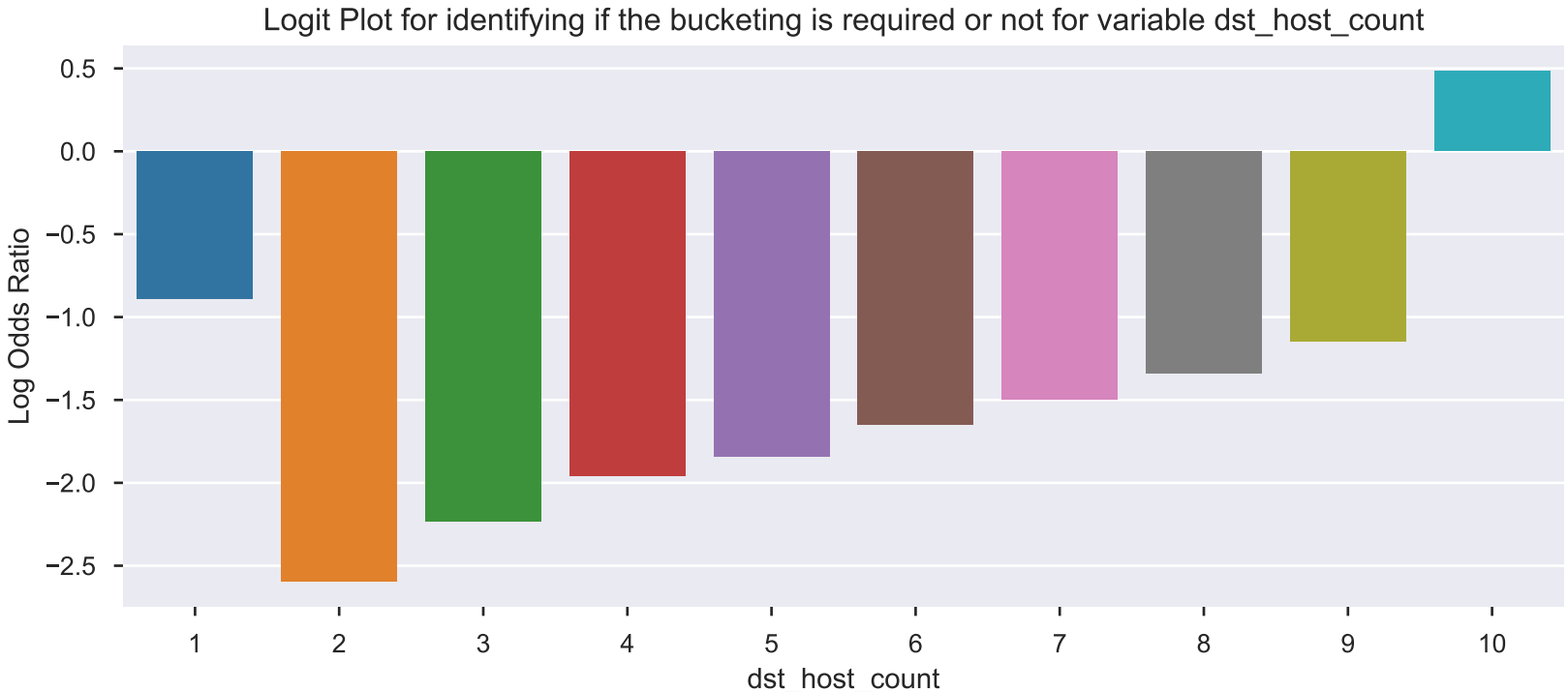
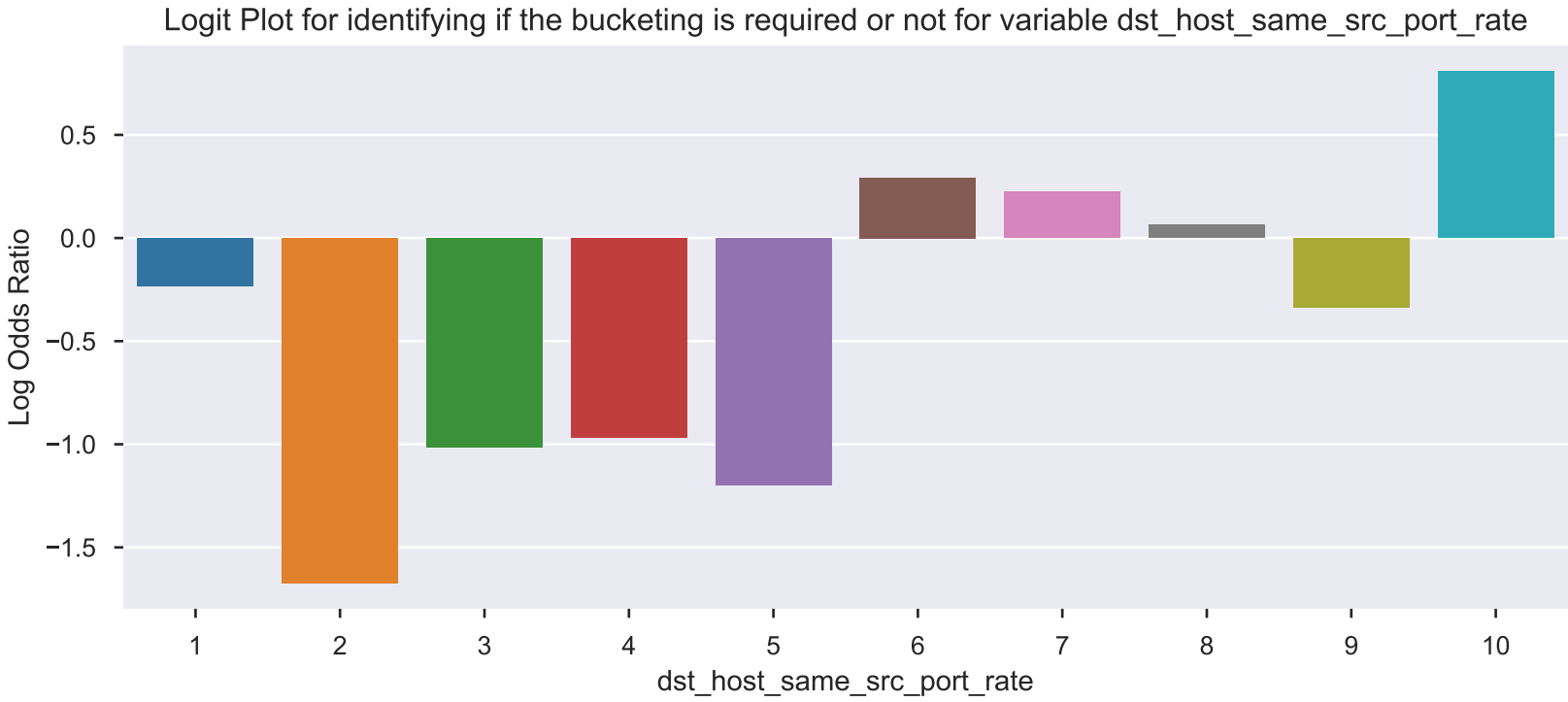

Logit Plot for identifying if the bucketing is required or not for variable count
Log Odds Ratio
3
2
1
0
−1
1
2
3
4
5
6
7
8
9
10
count

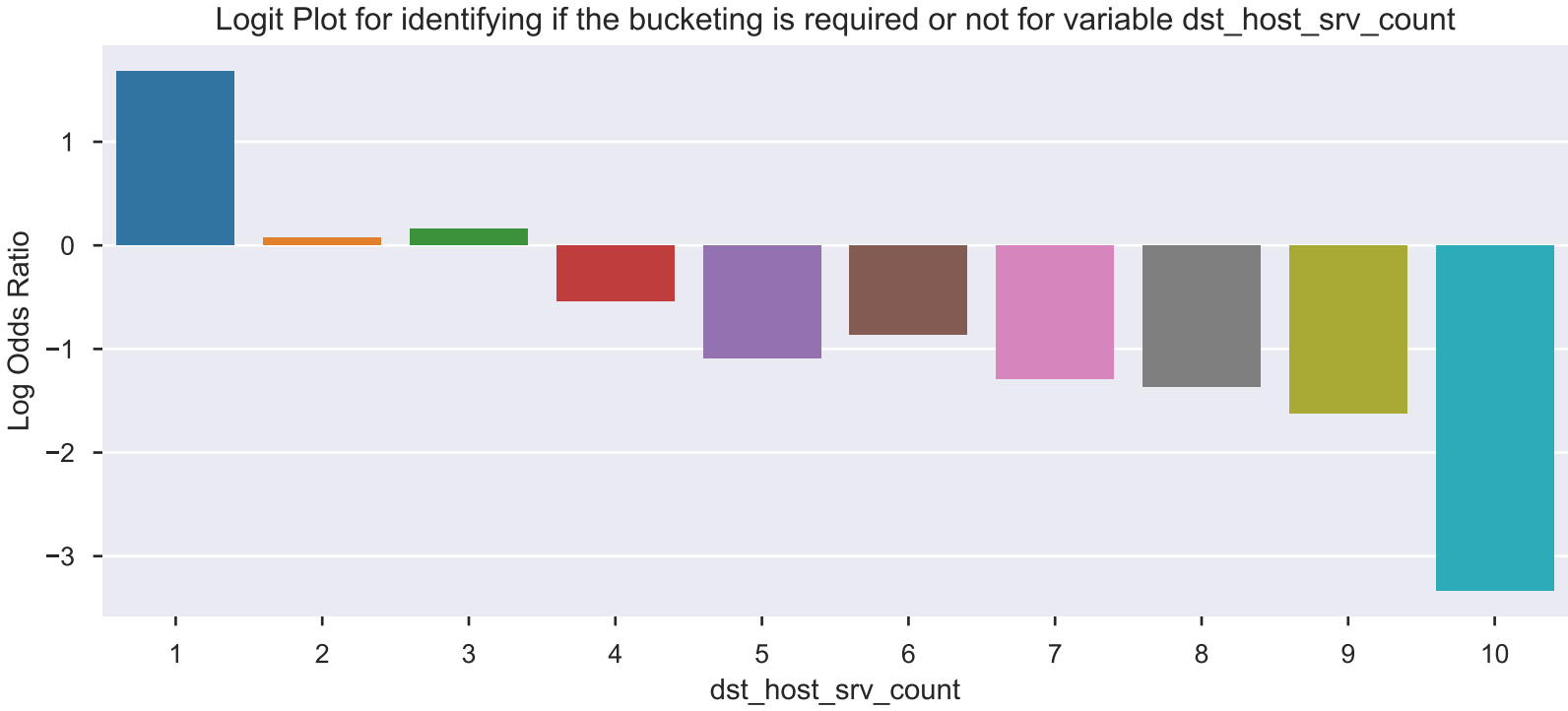
Logit Plot for identifying if the bucketing is required or not for variable diff_srv_rate
Log Odds Ratio
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
1
2
3
4
5
6
7
8
9
10
diff_srv_rate


Logit Plot for identifying if the bucketing is required or not for variable dst_host_count
Log Odds Ratio
0.5
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
1
2
3
4
5
6
7
8
9
10
dst_host_count

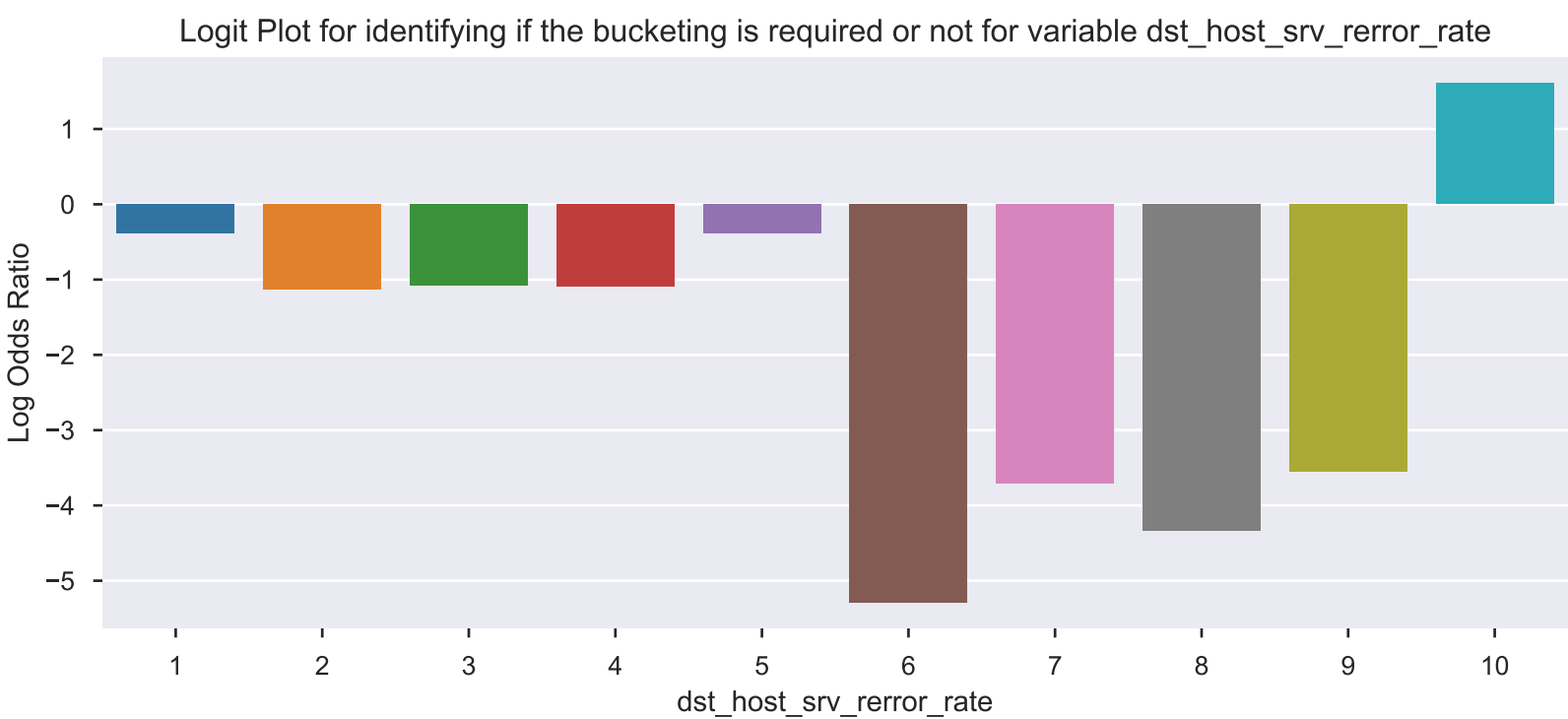
Logit Plot for identifying if the bucketing is required or not for variable dst_host_diff_srv_rate
Log Odds Ratio
1.25
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
1
2
3
4
5
6
7
8
9
10
dst_host_diff_srv_rate

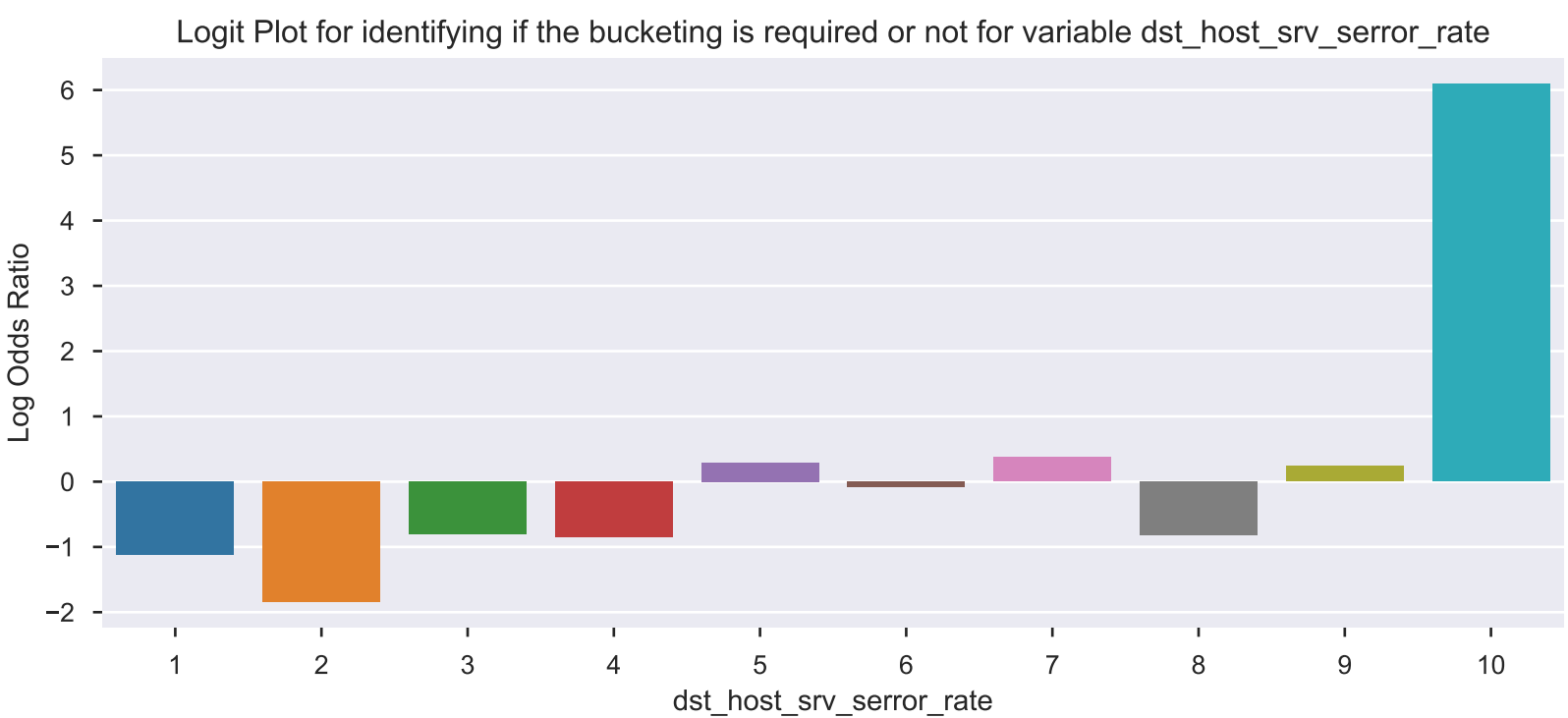

Logit Plot for identifying if the bucketing is required or not for variable dst_host_same_src_port_rate
Log Odds Ratio
0.5
0.0
−0.5
−1.0
−1.5
1
2
3
4
5
6
7
8
9
10
dst_host_same_src_port_rate

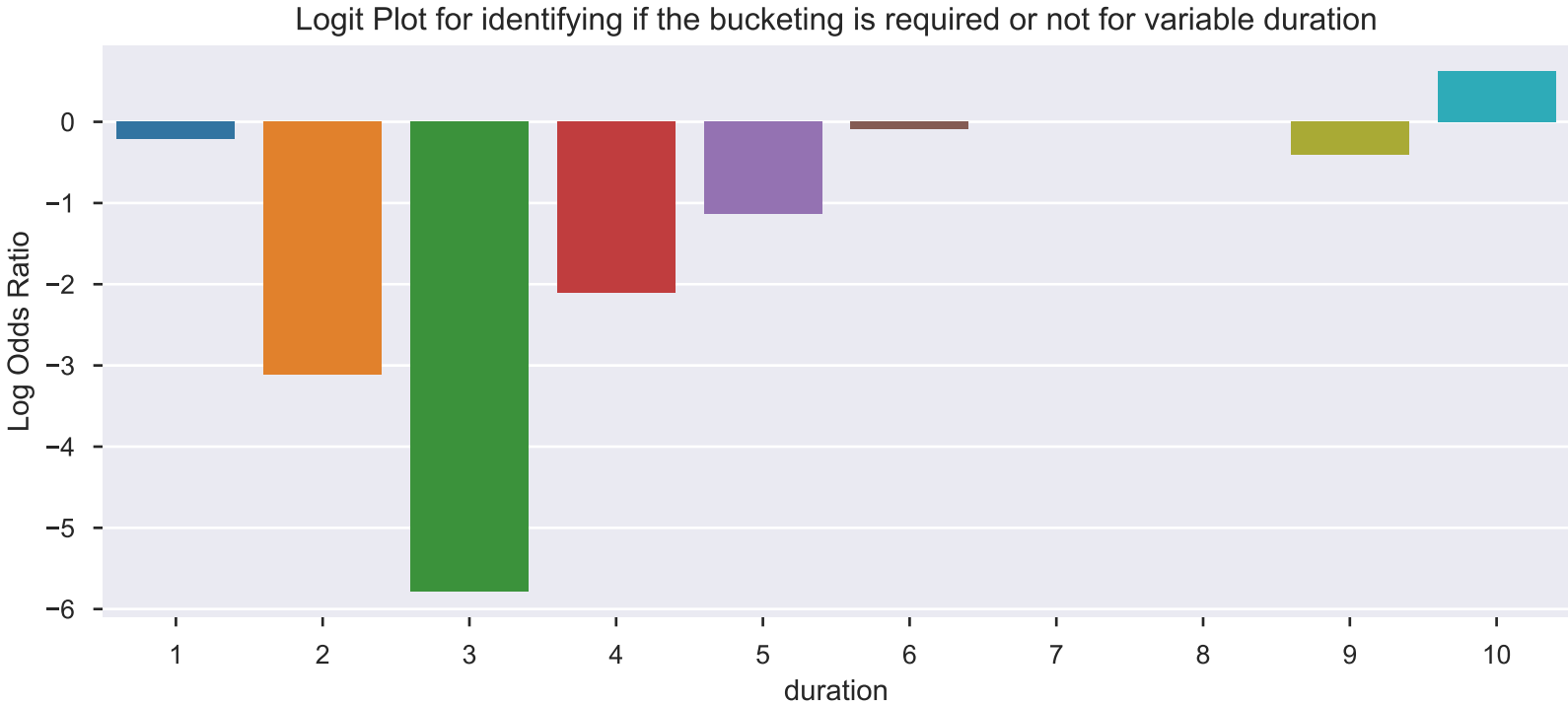
Logit Plot for identifying if the bucketing is required or not for variable dst_host_same_srv_rate
Log Odds Ratio
2
1
0
−1
−2
1
2
3
4
5
6
7
8
9
10
dst_host_same_srv_rate

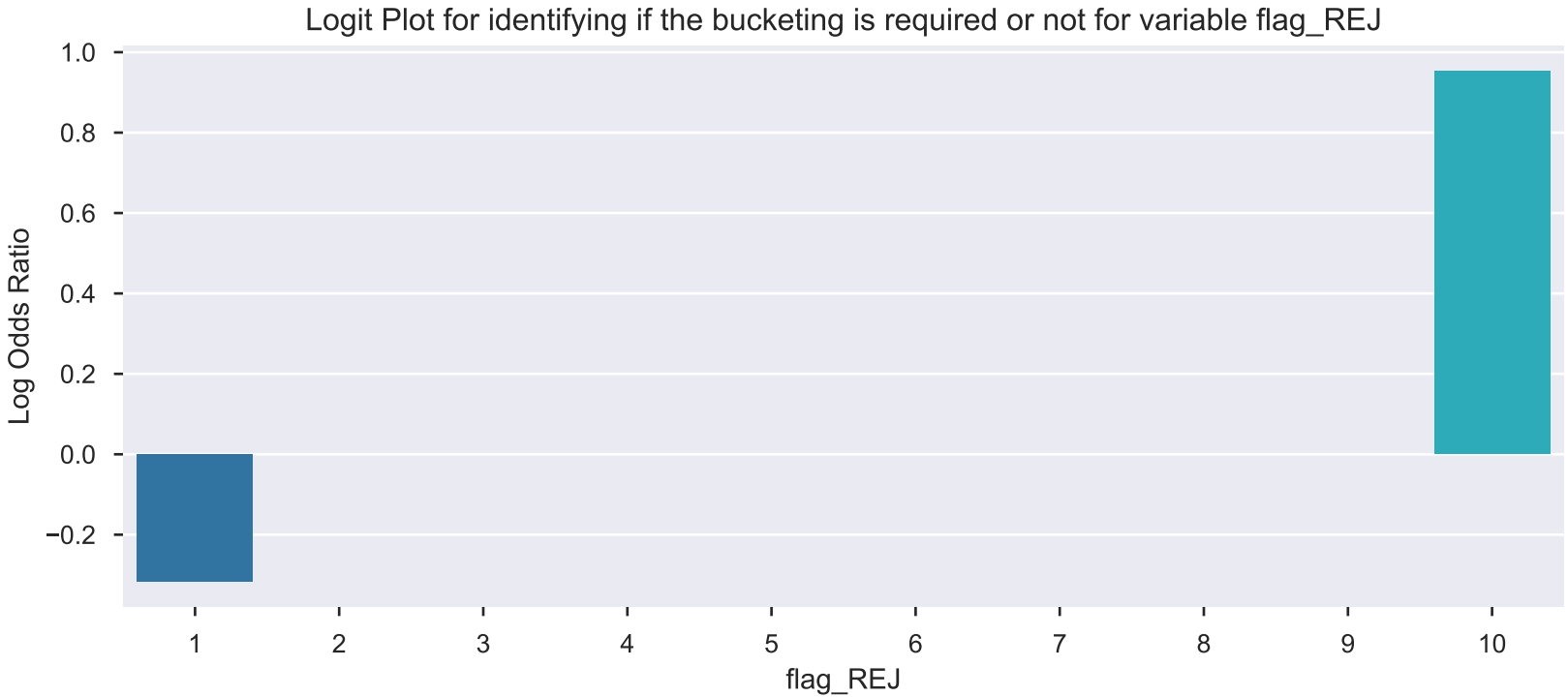

Logit Plot for identifying if the bucketing is required or not for variable dst_host_srv_count
Log Odds Ratio
1
0
−1
−2
−3
1
2
3
4
5
6
7
8
9
10
dst_host_srv_count

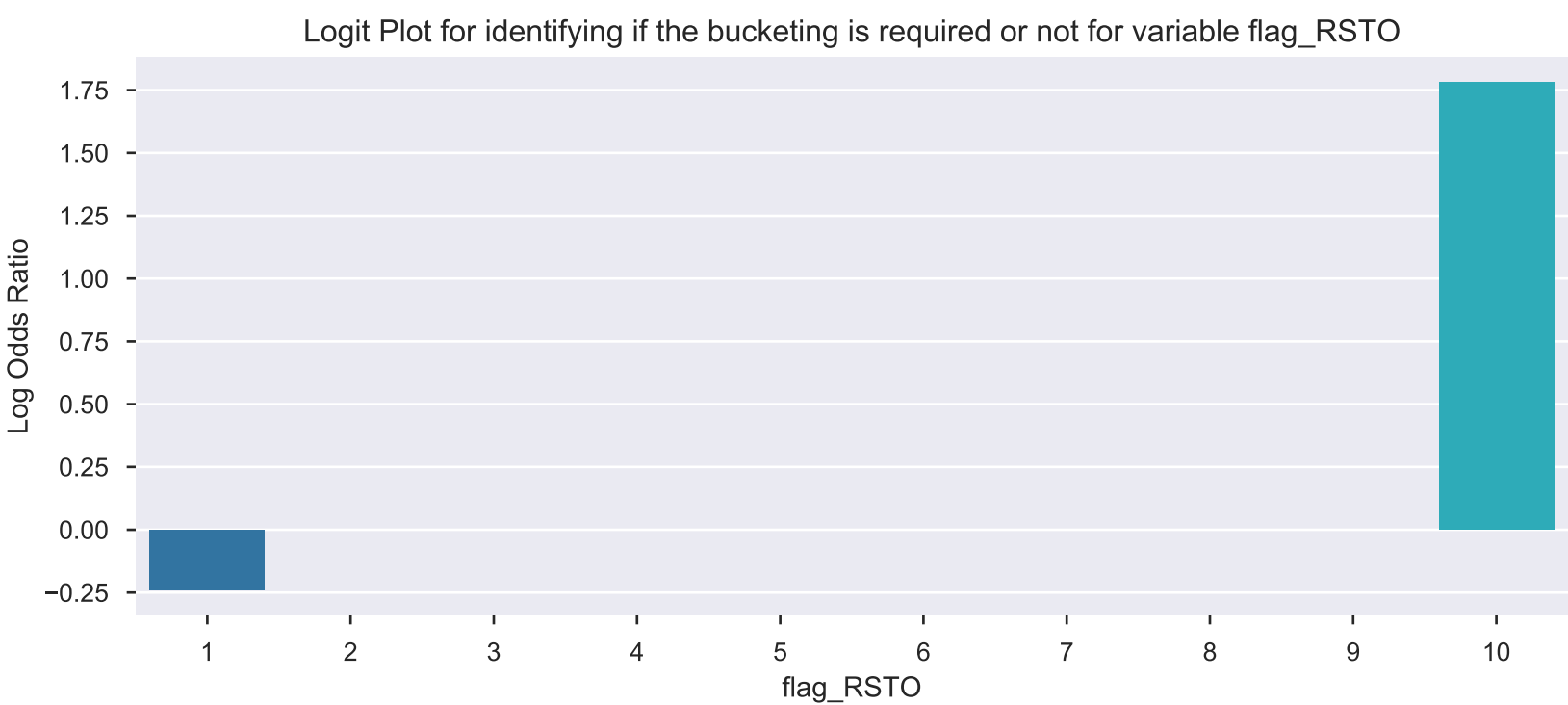
Logit Plot for identifying if the bucketing is required or not for variable dst_host_srv_diff_host_rate
Log Odds Ratio
2
1
0
−1
−2
−3
1
2
3
4
5
6
7
8
9
10
dst_host_srv_diff_host_rate

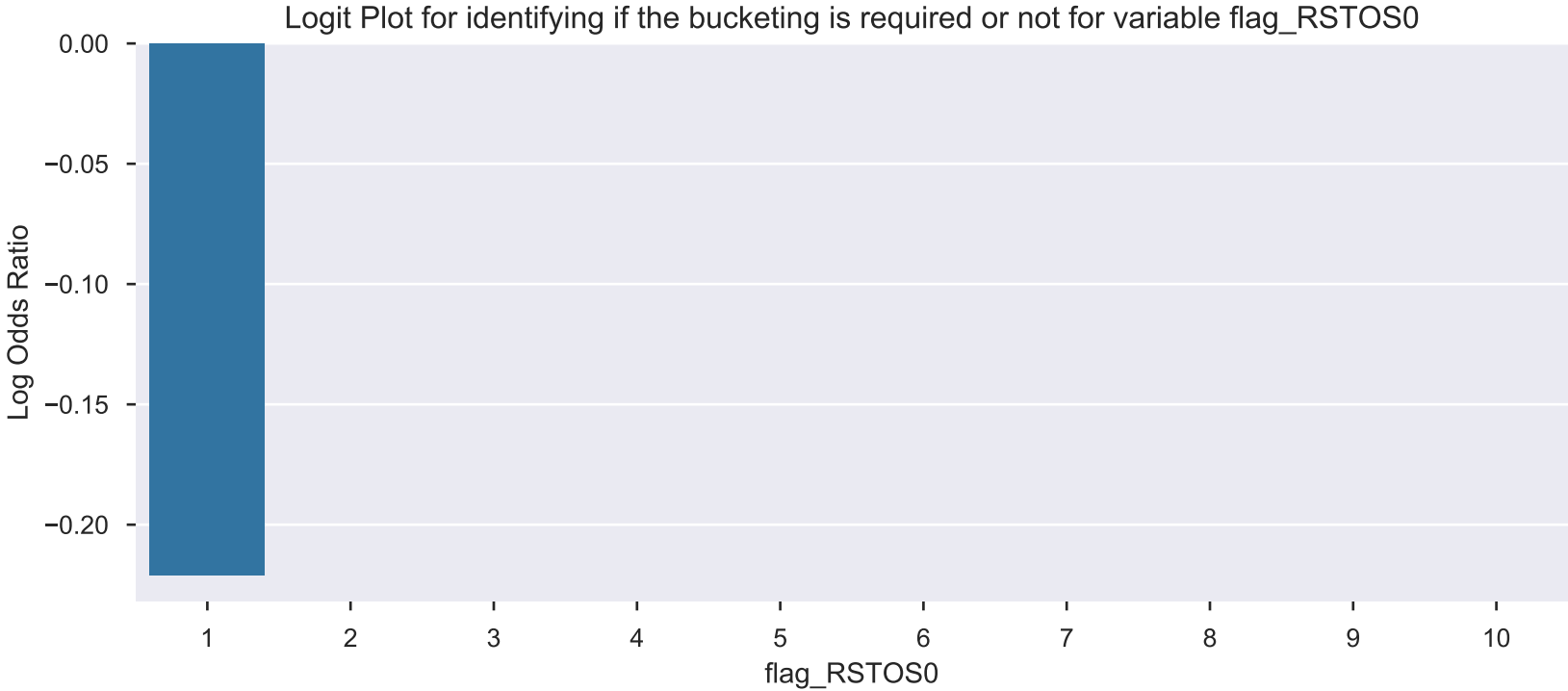

Logit Plot for identifying if the bucketing is required or not for variable dst_host_srv_rerror_rate
Log Odds Ratio
1
0
−1
−2
−3
−4
−5
1
2
3
4
5
6
7
8
9
10
dst_host_srv_rerror_rate

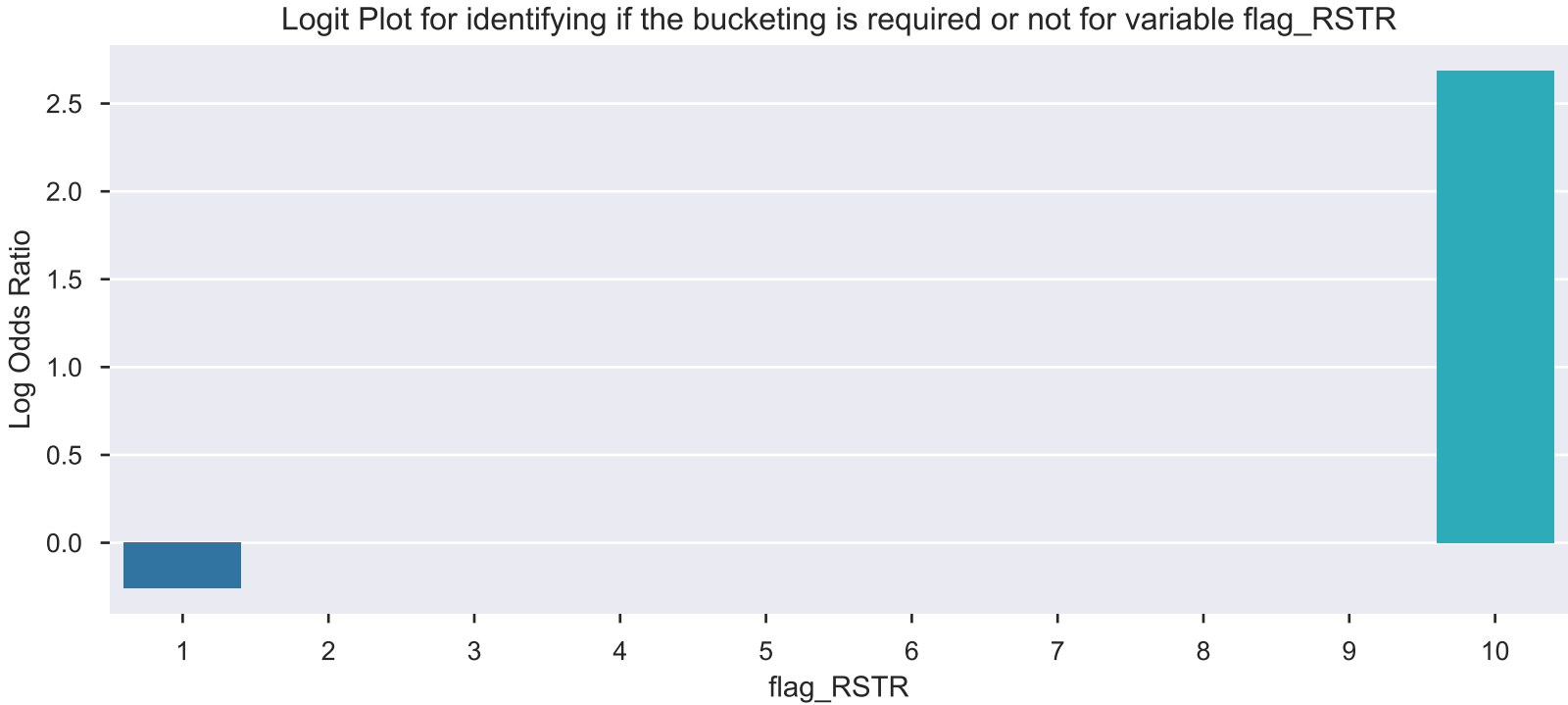

Logit Plot for identifying if the bucketing is required or not for variable dst_host_srv_serror_rate
Log Odds Ratio
6
5
4
3
2
1
0
−1
−2
1
2
3
4
5
6
7
8
9
10
dst_host_srv_serror_rate

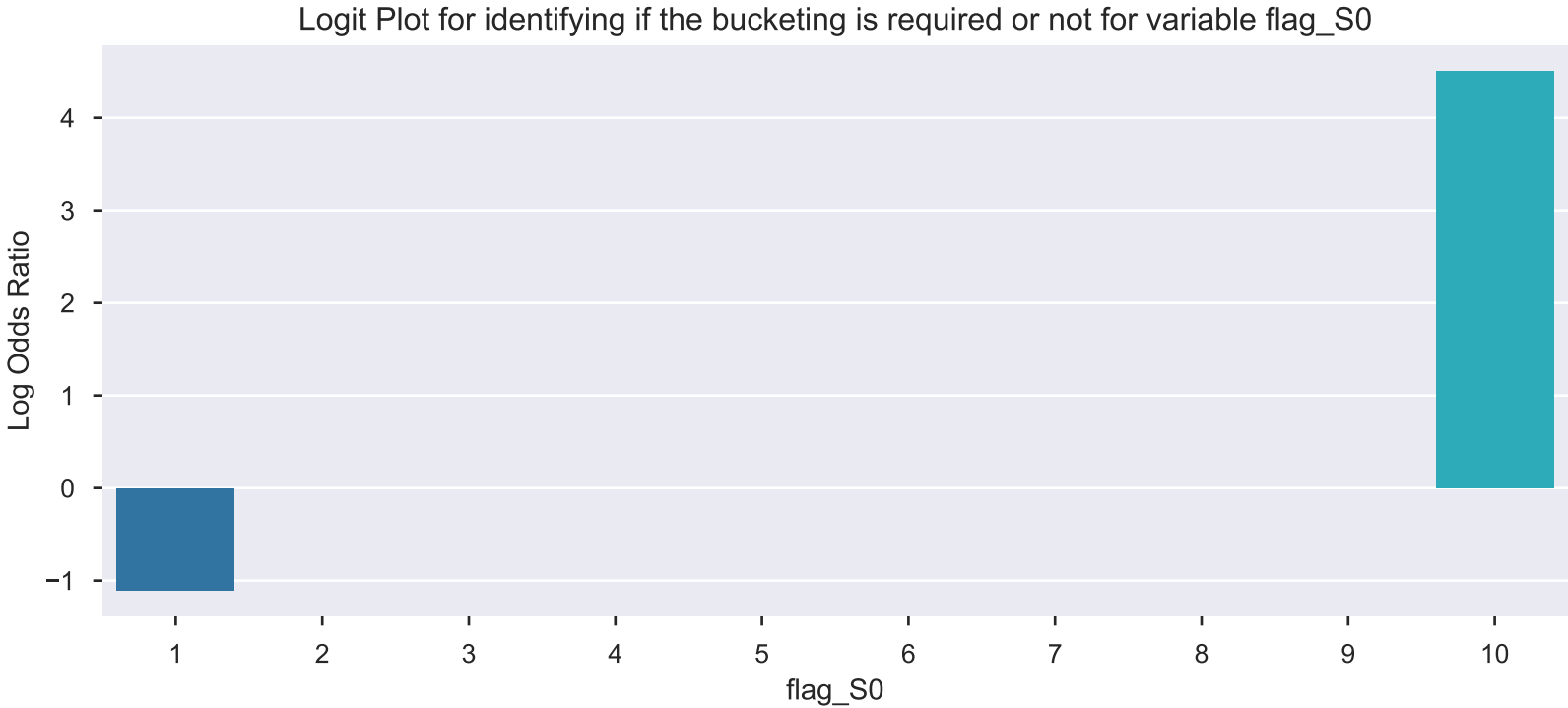

Logit Plot for identifying if the bucketing is required or not for variable duration
Log Odds Ratio
0
−1
−2
−3
−4
−5
−6
1
2
3
4
5
6
7
8
9
10
duration

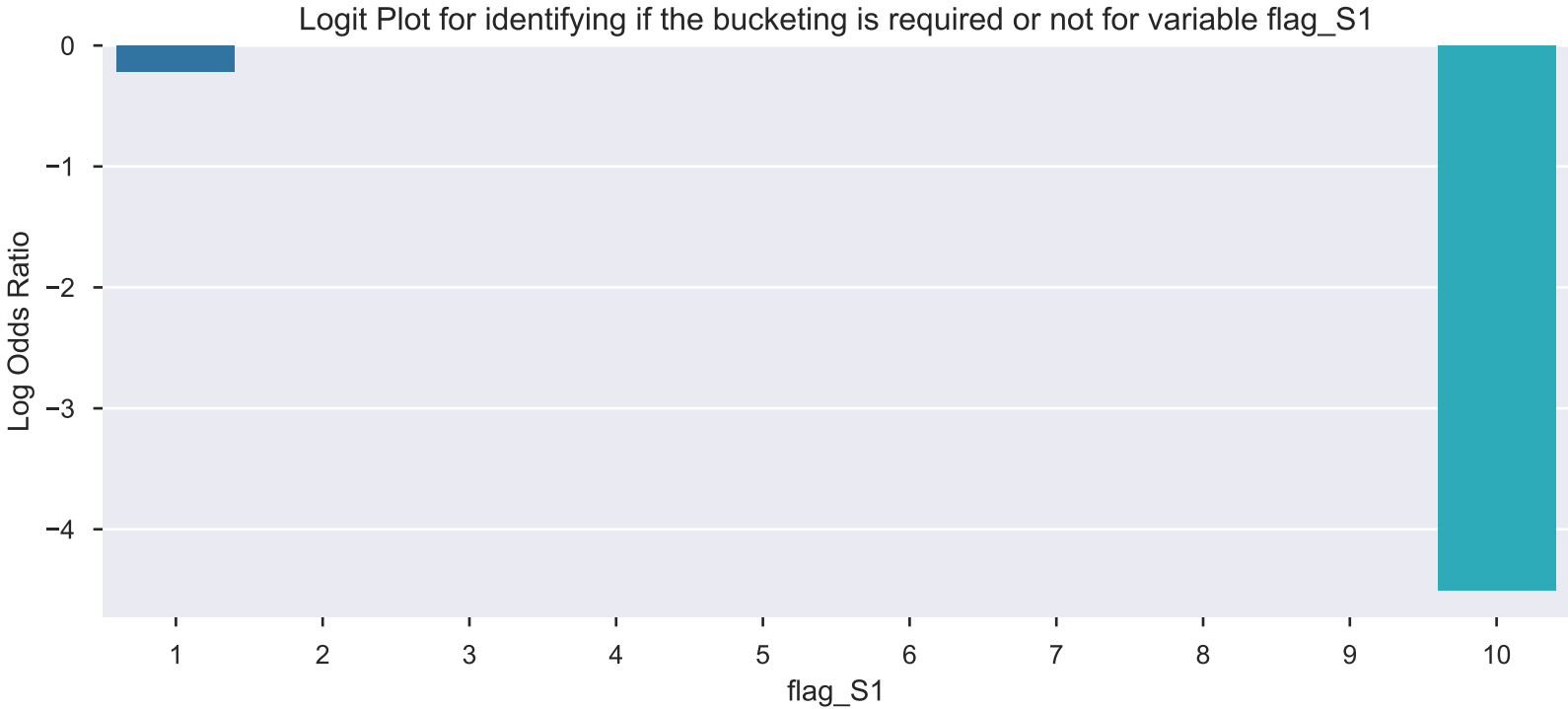

Logit Plot for identifying if the bucketing is required or not for variable flag_REJ
Log Odds Ratio
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
flag_REJ

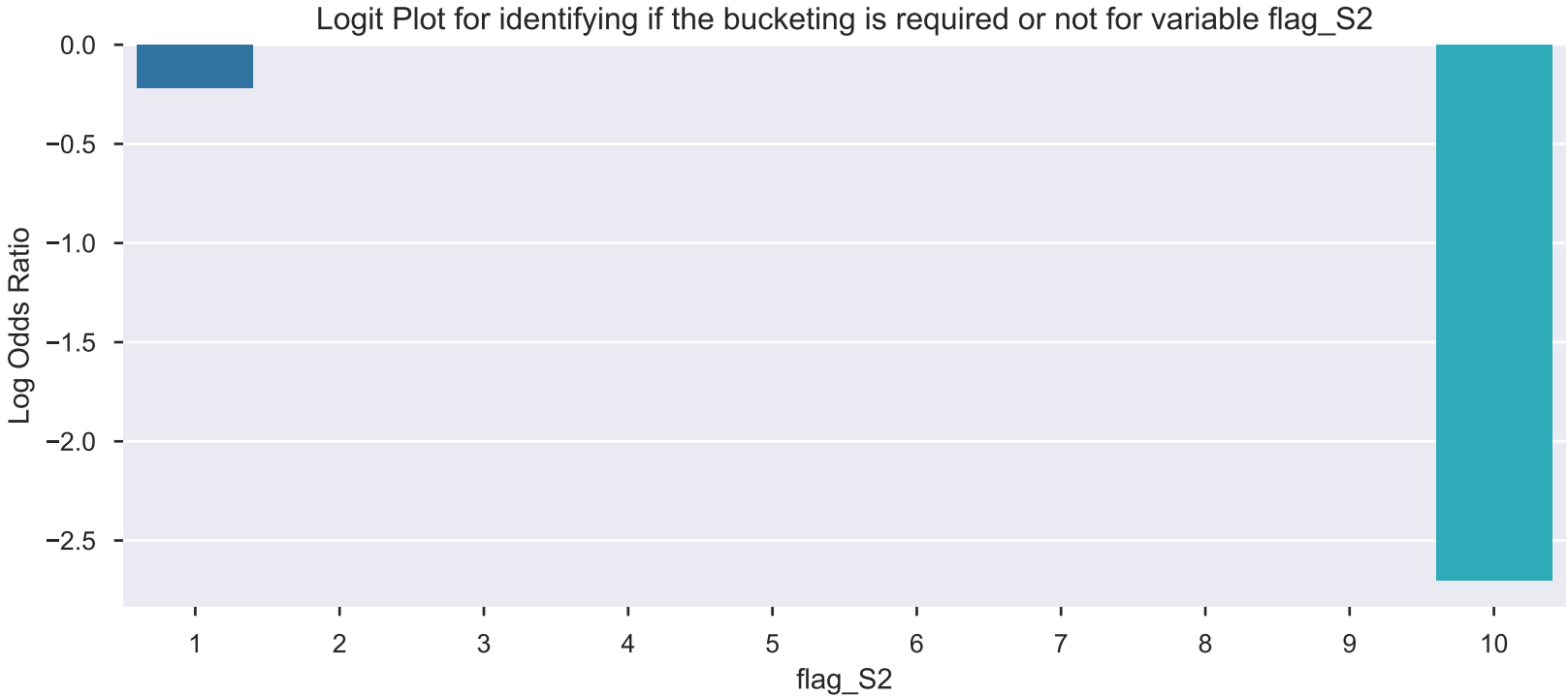

Logit Plot for identifying if the bucketing is required or not for variable flag_RSTO
Log Odds Ratio
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
−0.25
1
2
3
4
5
6
7
8
9
10
flag_RSTO

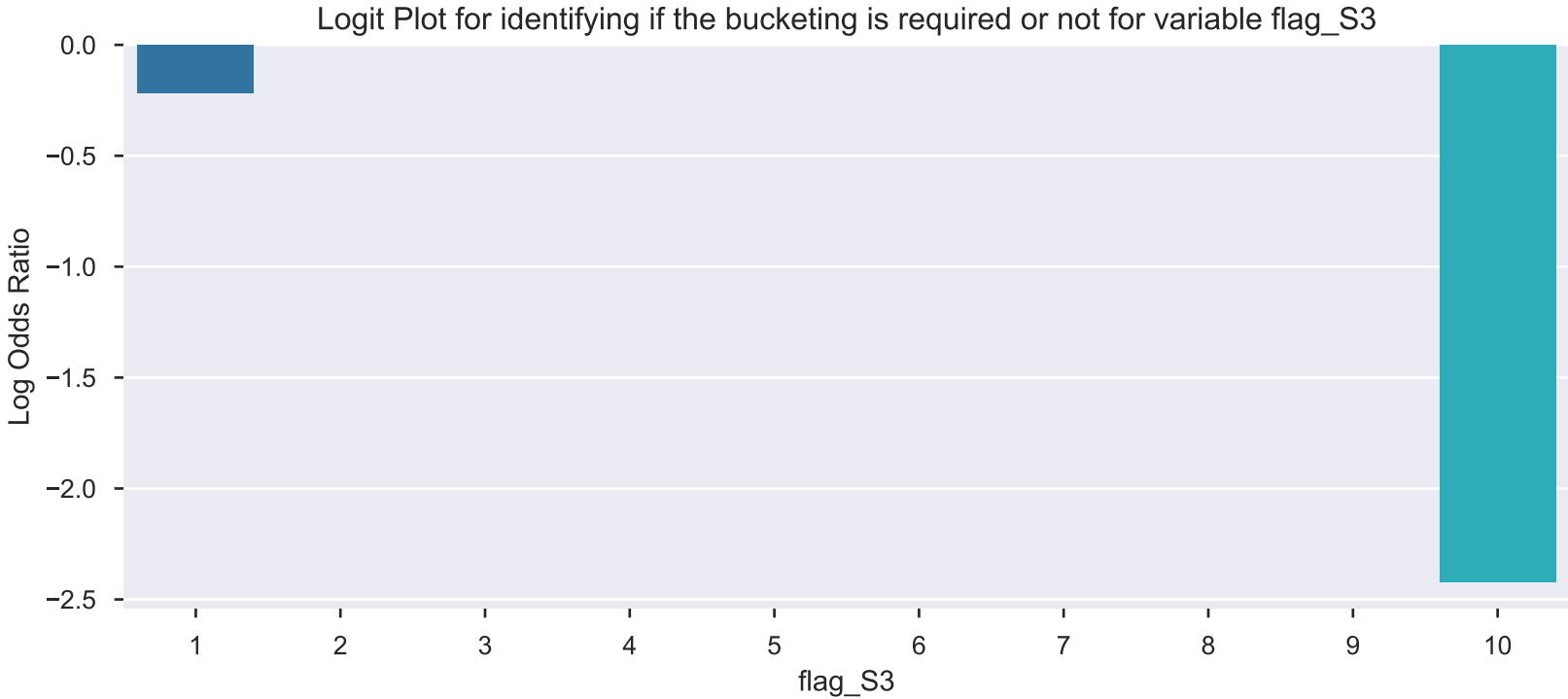

Logit Plot for identifying if the bucketing is required or not for variable flag_RSTOS0
0.00
−0.05
−0.10
−0.15
−0.20
Log Odds Ratio
1
2
3
4
5
6
7
8
9
10
flag_RSTOS0

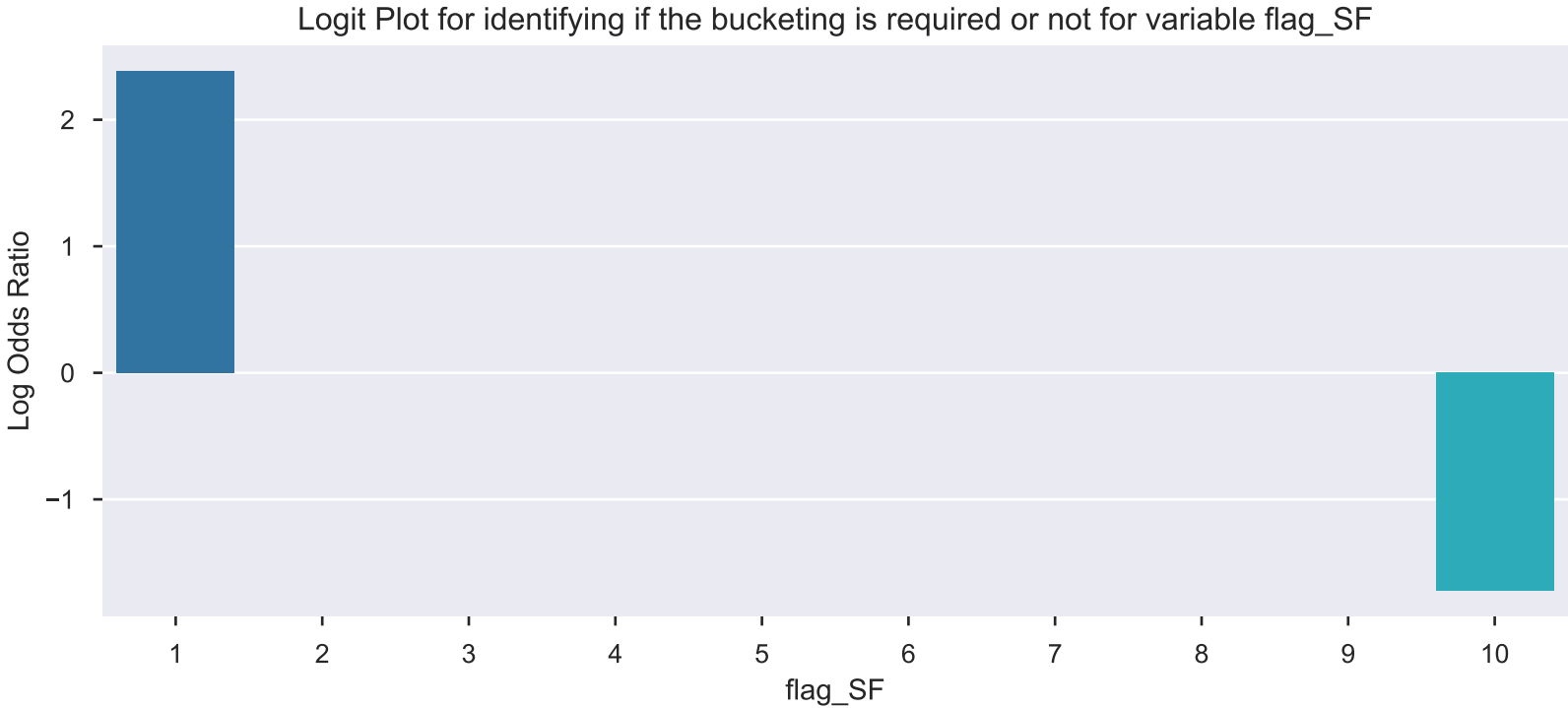

Logit Plot for identifying if the bucketing is required or not for variable flag_RSTR
Log Odds Ratio
2.5
2.0
1.5
1.0
0.5
0.0
1
2
3
4
5
6
7
8
9
10
flag_RSTR

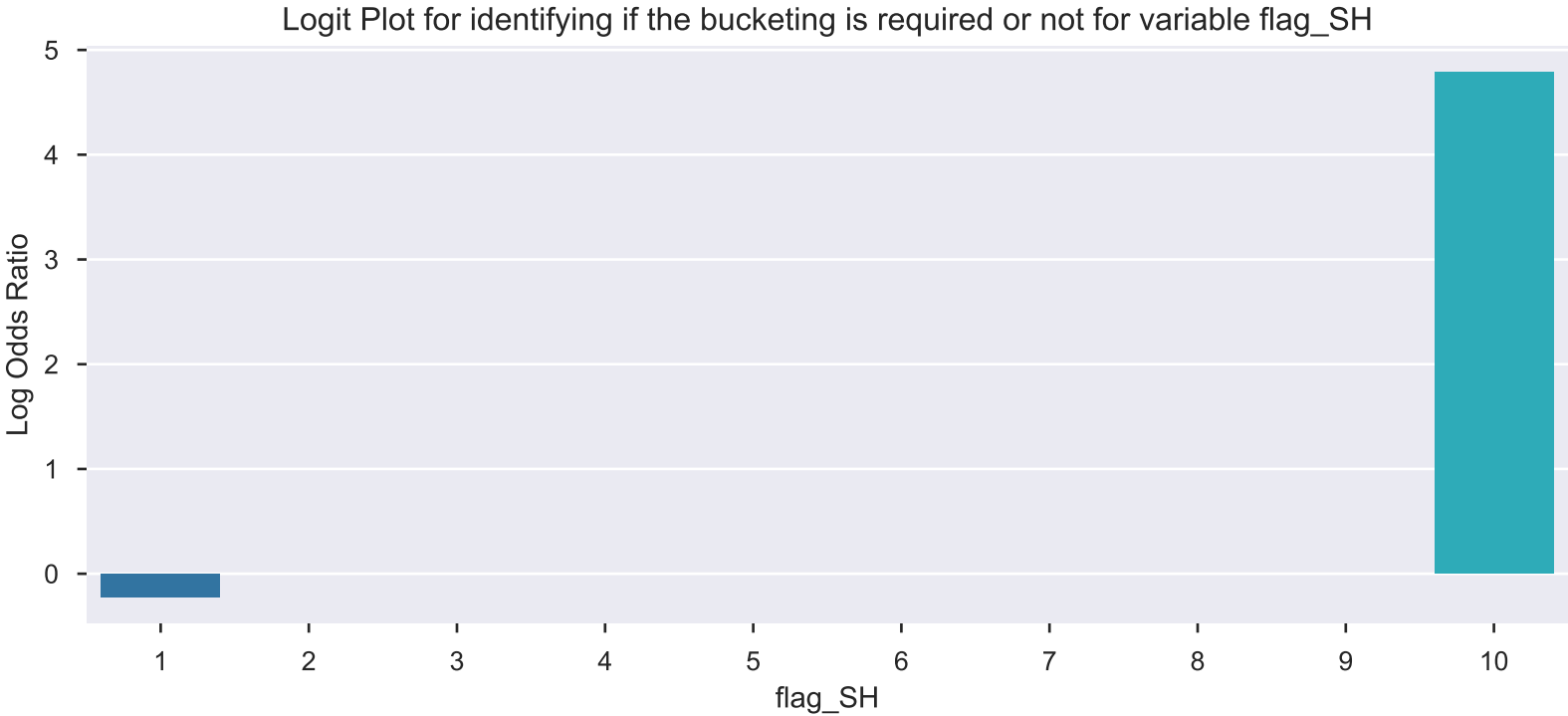

Logit Plot for identifying if the bucketing is required or not for variable flag_S0
Log Odds Ratio
4
3
2
1
0
−1
1
2
3
4
5
6
7
8
9
10
flag_S0

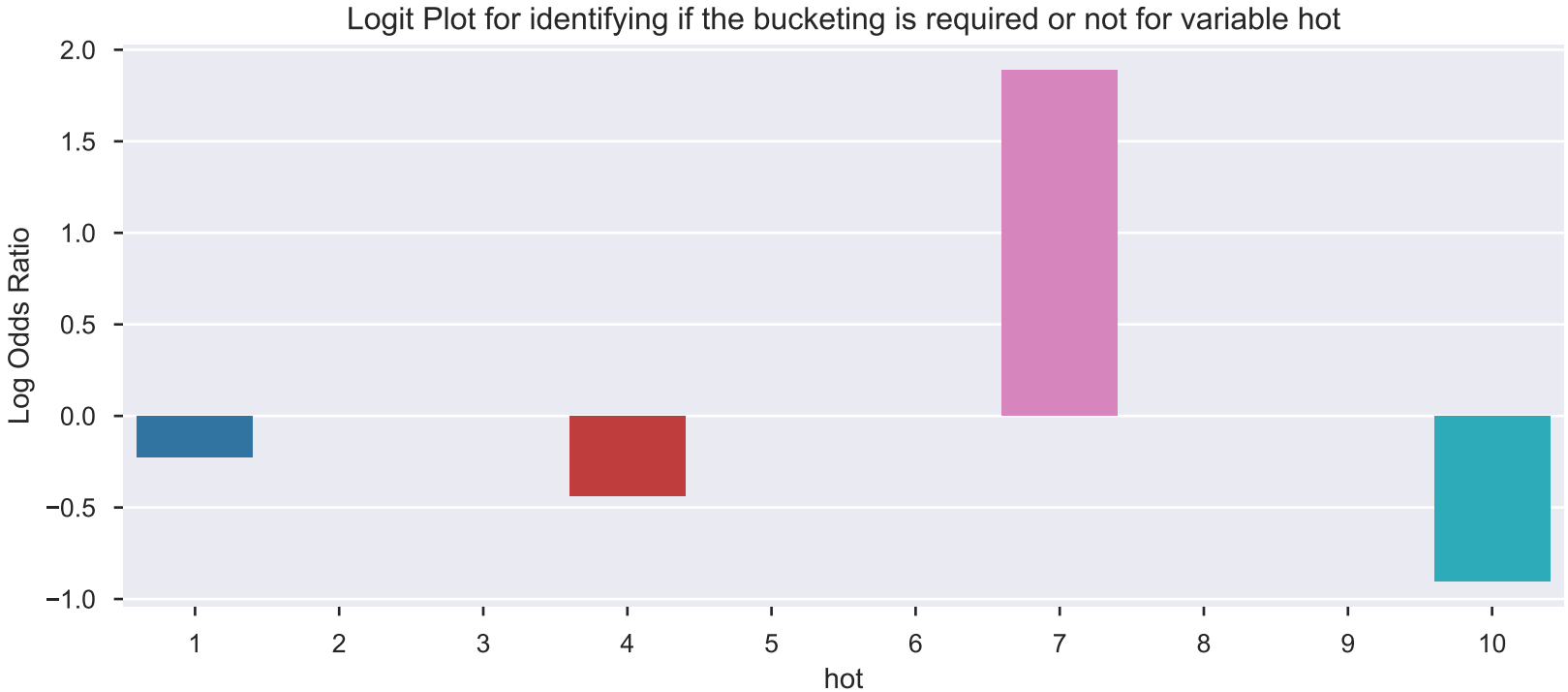

Logit Plot for identifying if the bucketing is required or not for variable flag_S1
Log Odds Ratio
0
−1
−2
−3
−4
1
2
3
4
5
6
7
8
9
10
flag_S1

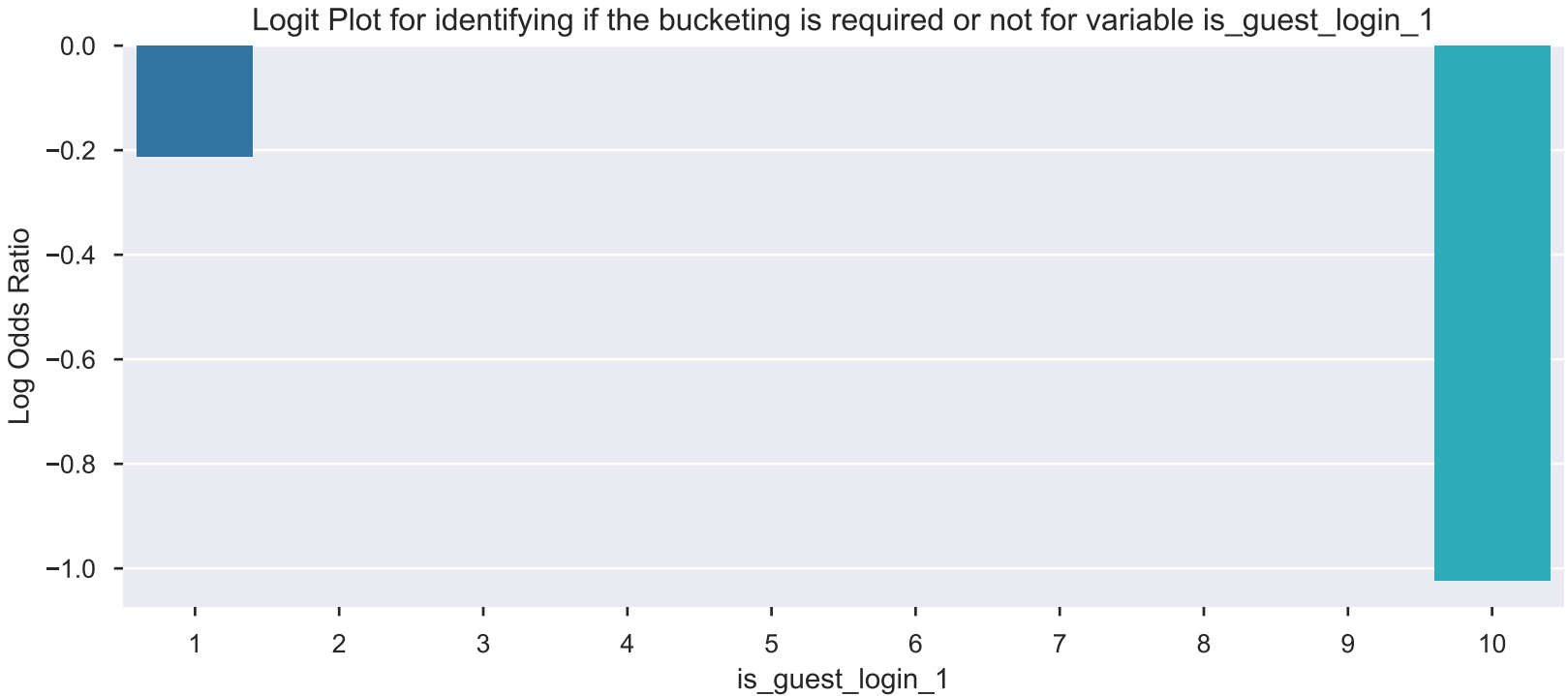

Logit Plot for identifying if the bucketing is required or not for variable flag_S2
Log Odds Ratio
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
1
2
3
4
5
6
7
8
9
10
flag_S2

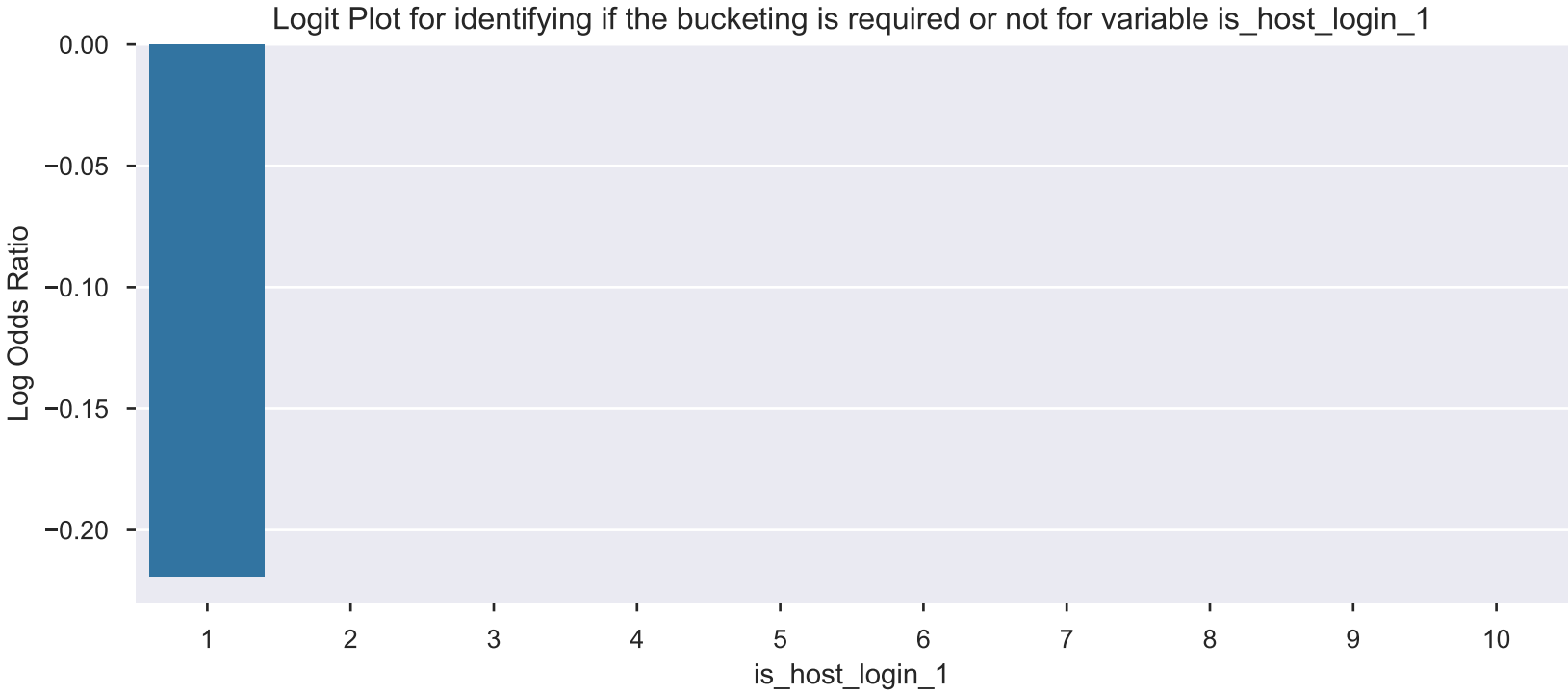

Logit Plot for identifying if the bucketing is required or not for variable flag_S3
Log Odds Ratio
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
1
2
3
4
5
6
7
8
9
10
flag_S3

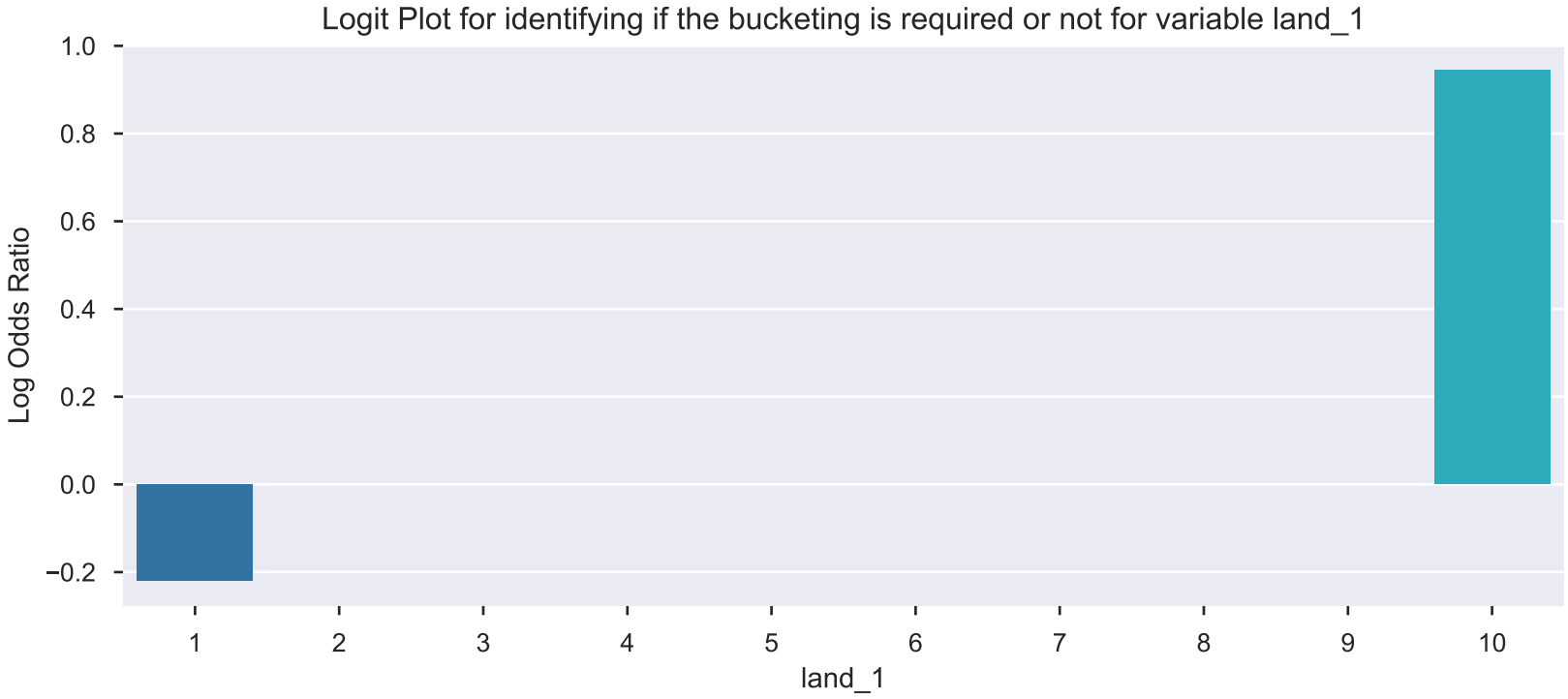

Logit Plot for identifying if the bucketing is required or not for variable flag_SF
Log Odds Ratio
2
1
0
−1
1
2
3
4
5
6
7
8
9
10
flag_SF

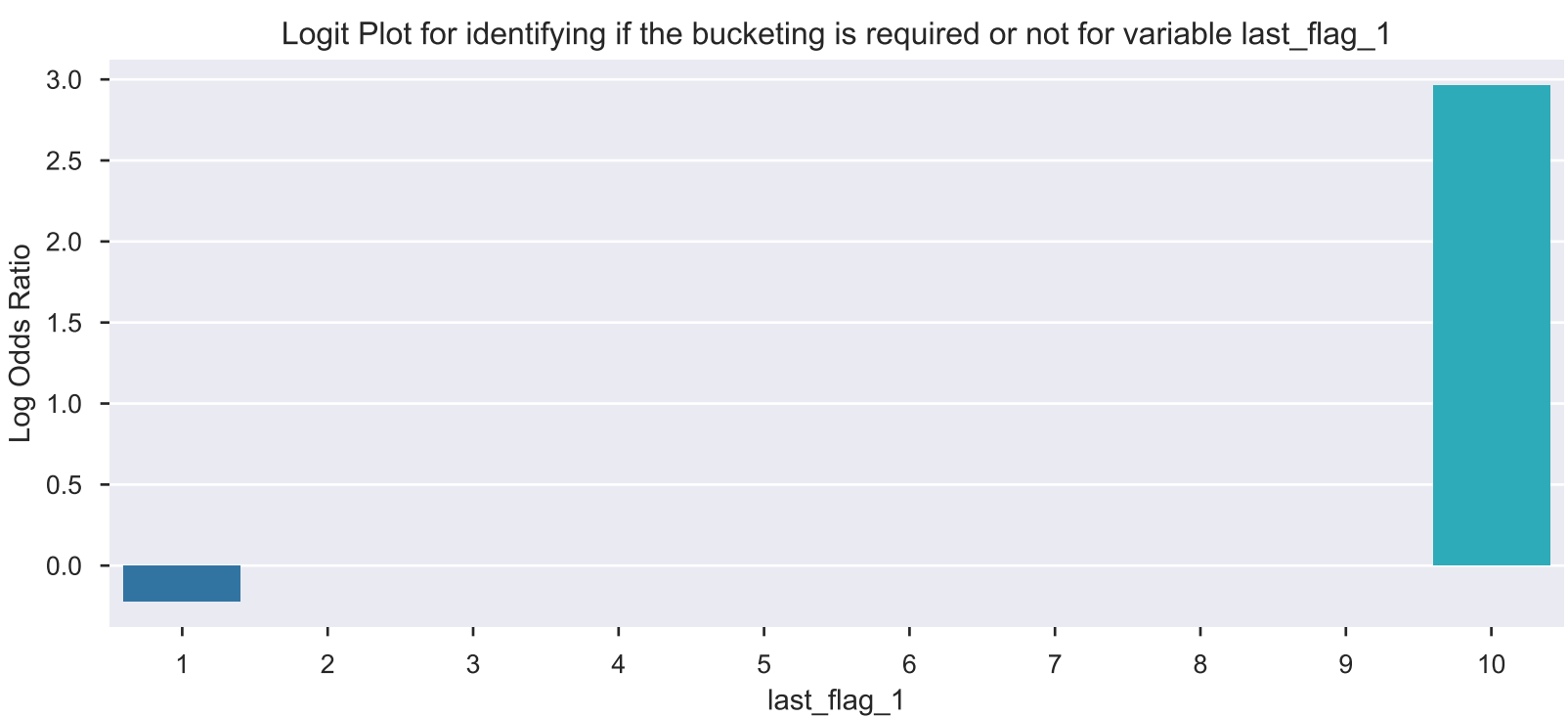

Logit Plot for identifying if the bucketing is required or not for variable flag_SH
Log Odds Ratio
5
4
3
2
1
0
1
2
3
4
5
6
7
8
9
10
flag_SH

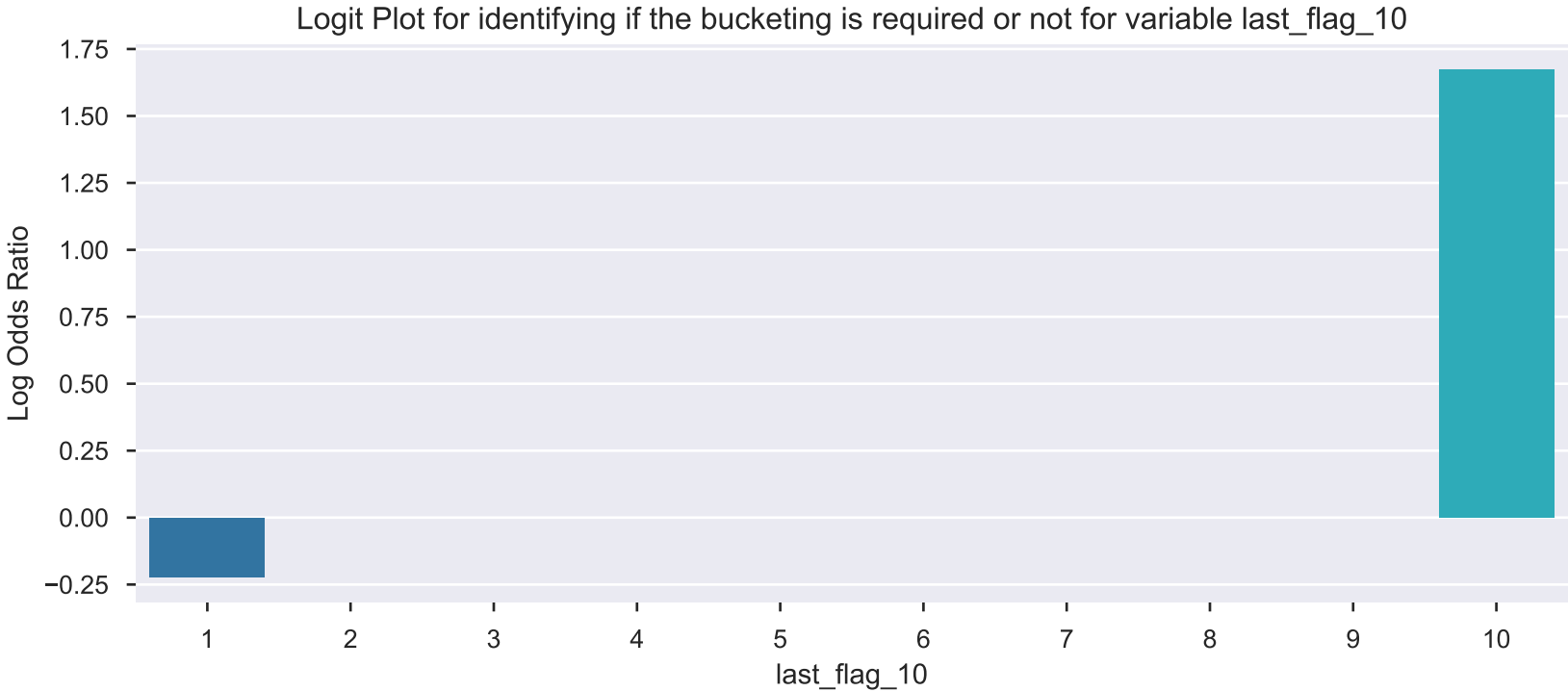

Logit Plot for identifying if the bucketing is required or not for variable hot
Log Odds Ratio
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
1
2
3
4
5
6
7
8
9
10
hot

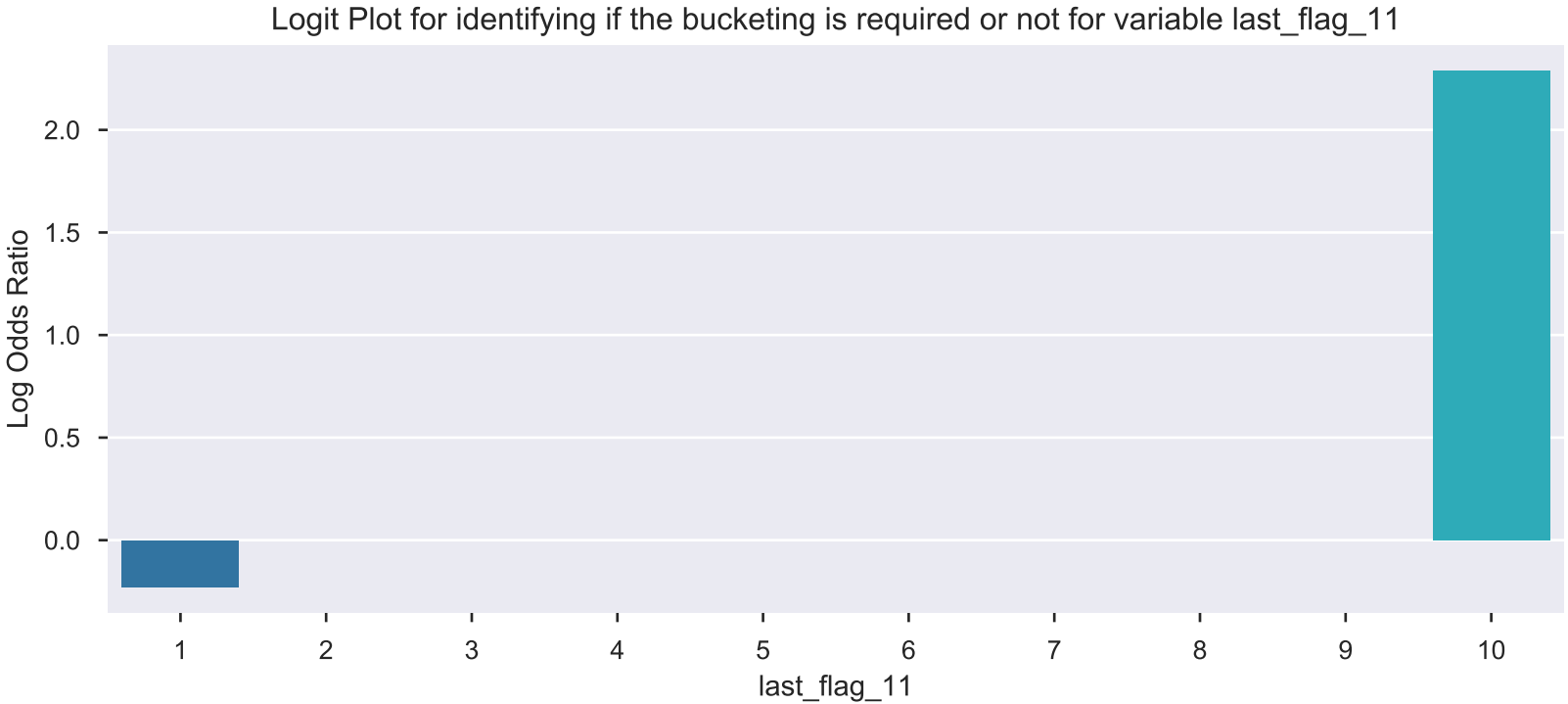

Logit Plot for identifying if the bucketing is required or not for variable is_guest_login_1
Log Odds Ratio
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
1
2
3
4
5
6
7
8
9
10
is_guest_login_1

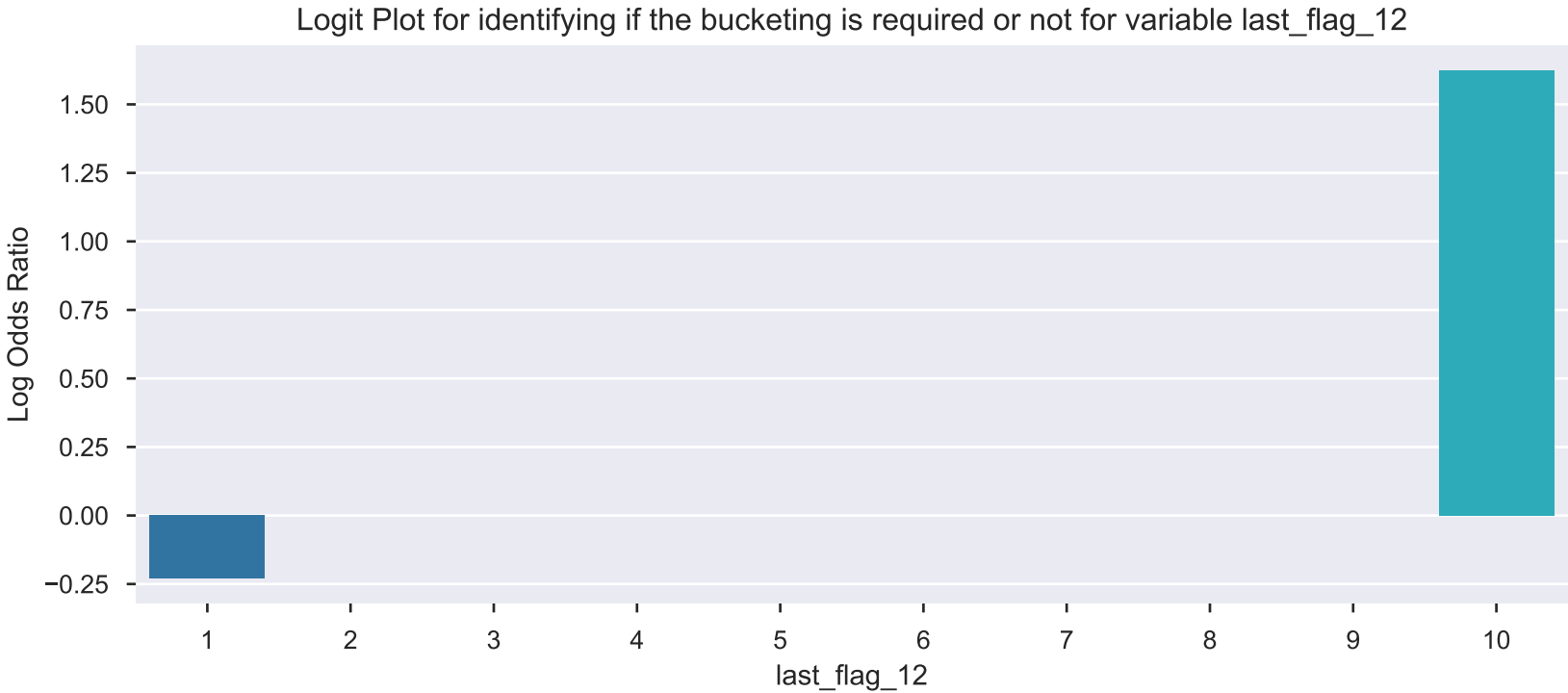

Logit Plot for identifying if the bucketing is required or not for variable is_host_login_1
0.00
−0.05
−0.10
−0.15
−0.20
Log Odds Ratio
1
2
3
4
5
6
7
8
9
10
is_host_login_1

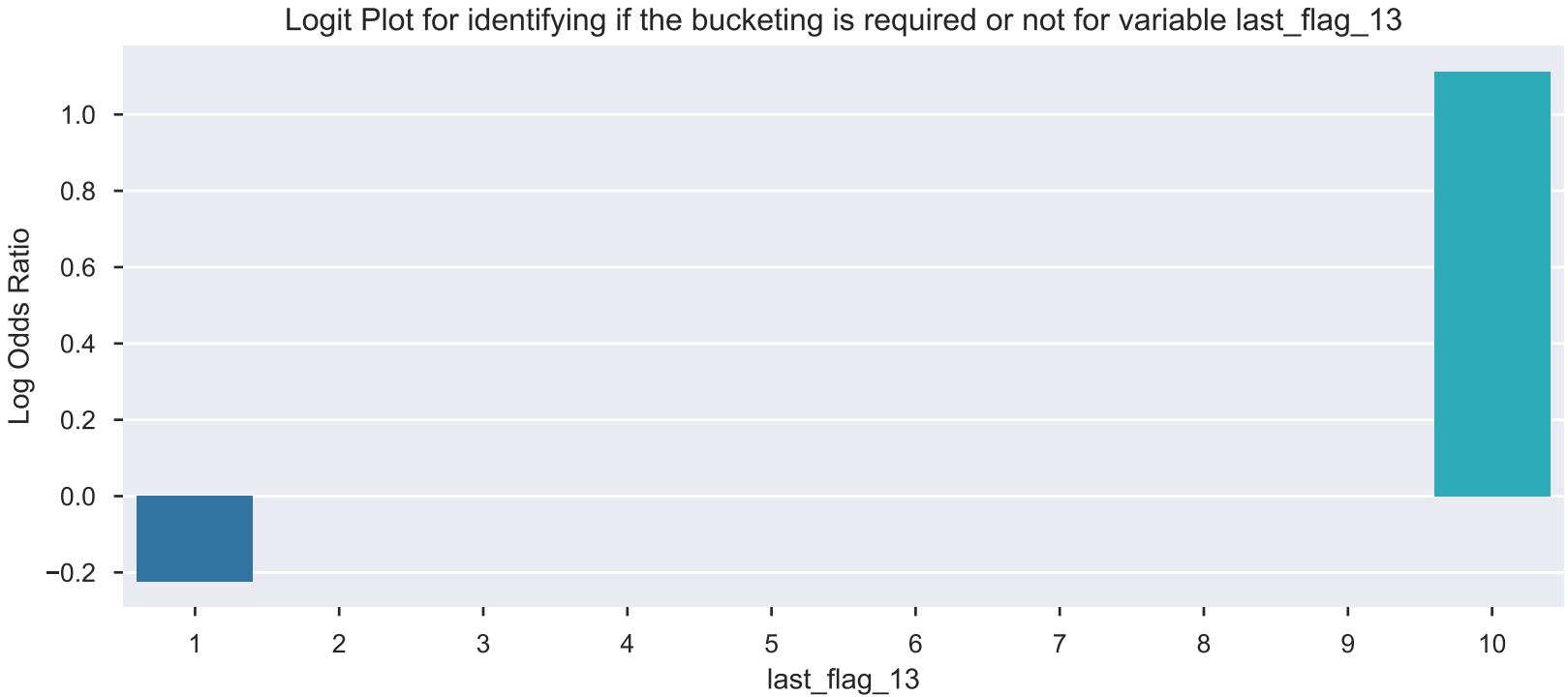

Logit Plot for identifying if the bucketing is required or not for variable land_1
Log Odds Ratio
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
land_1

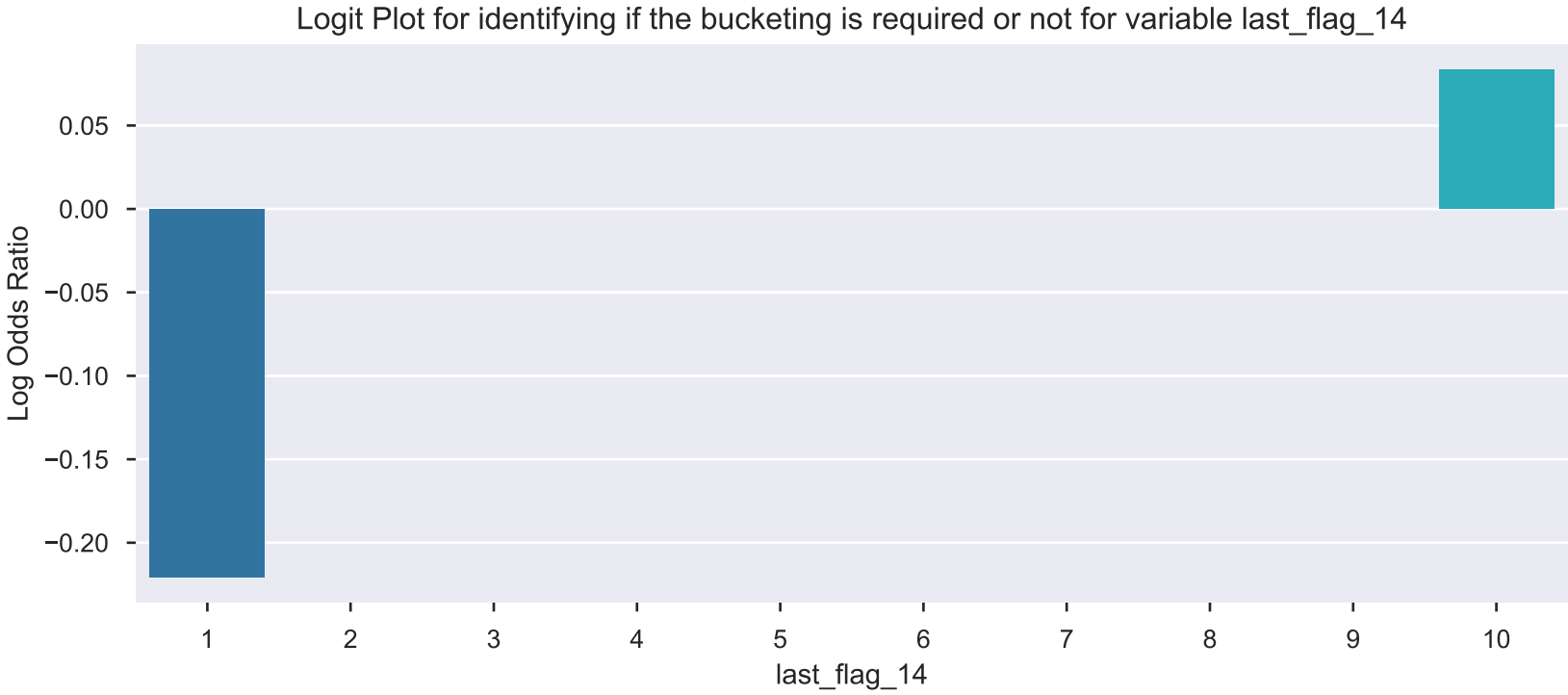

Logit Plot for identifying if the bucketing is required or not for variable last_flag_1
Log Odds Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1
2
3
4
5
6
7
8
9
10
last_flag_1

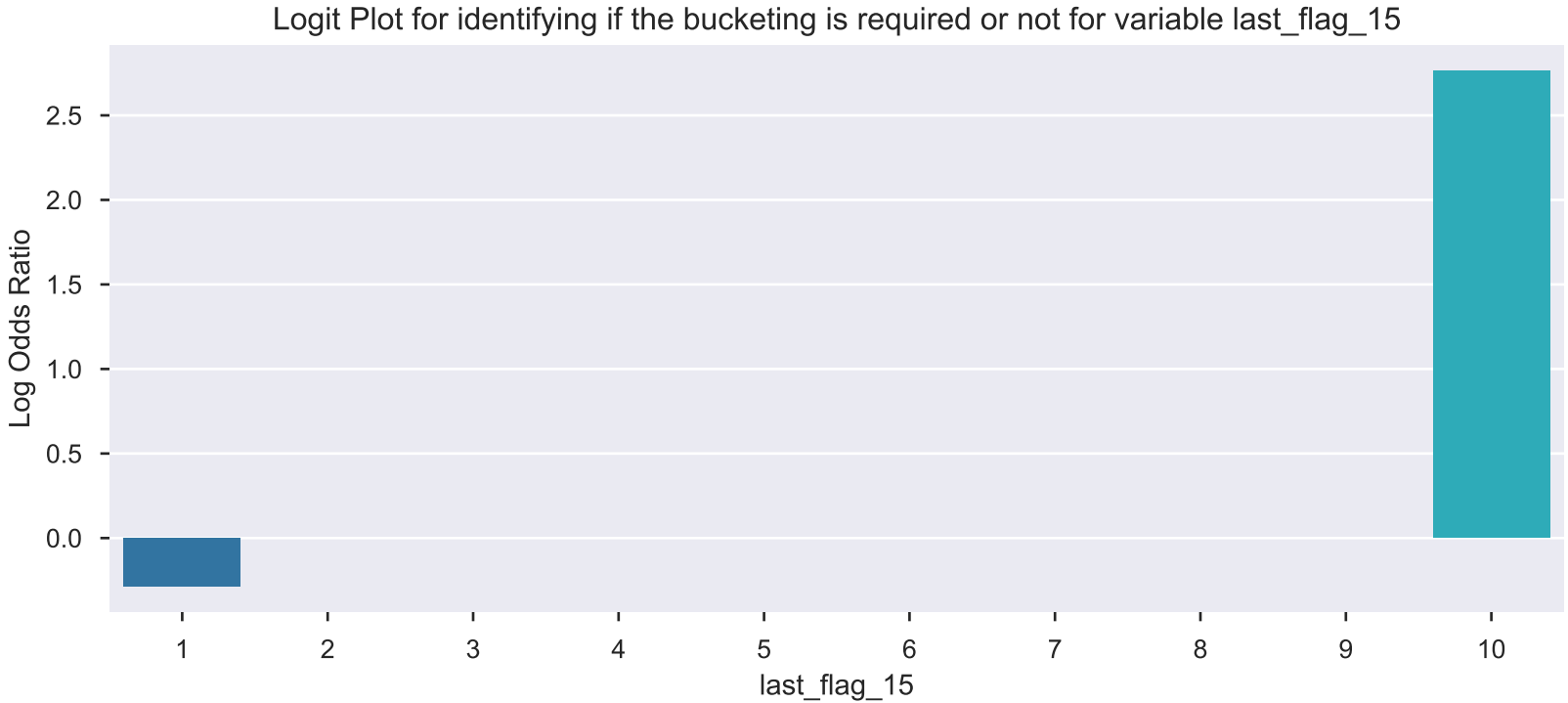

Logit Plot for identifying if the bucketing is required or not for variable last_flag_10
Log Odds Ratio
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
−0.25
1
2
3
4
5
6
7
8
9
10
last_flag_10

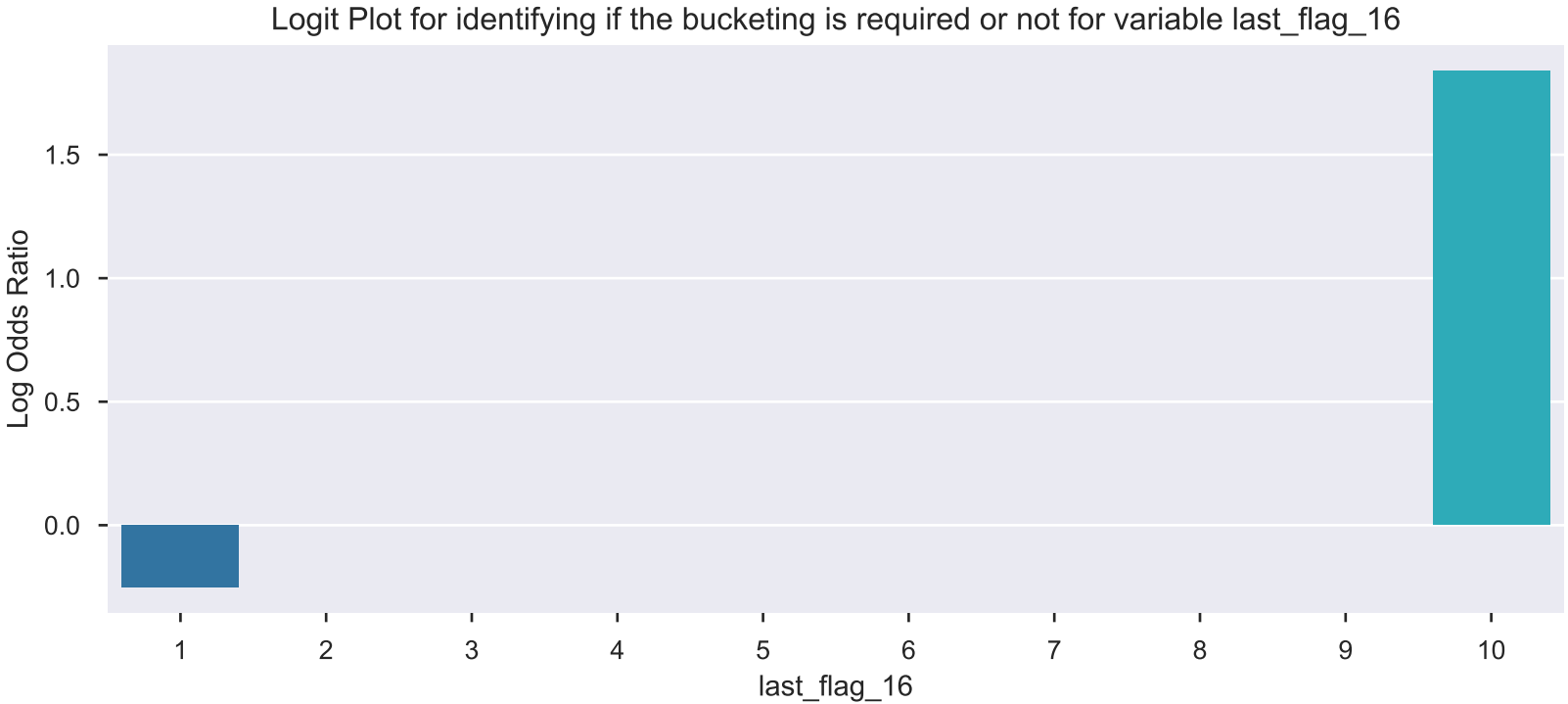

Logit Plot for identifying if the bucketing is required or not for variable last_flag_11
Log Odds Ratio
2.0
1.5
1.0
0.5
0.0
1
2
3
4
5
6
7
8
9
10
last_flag_11

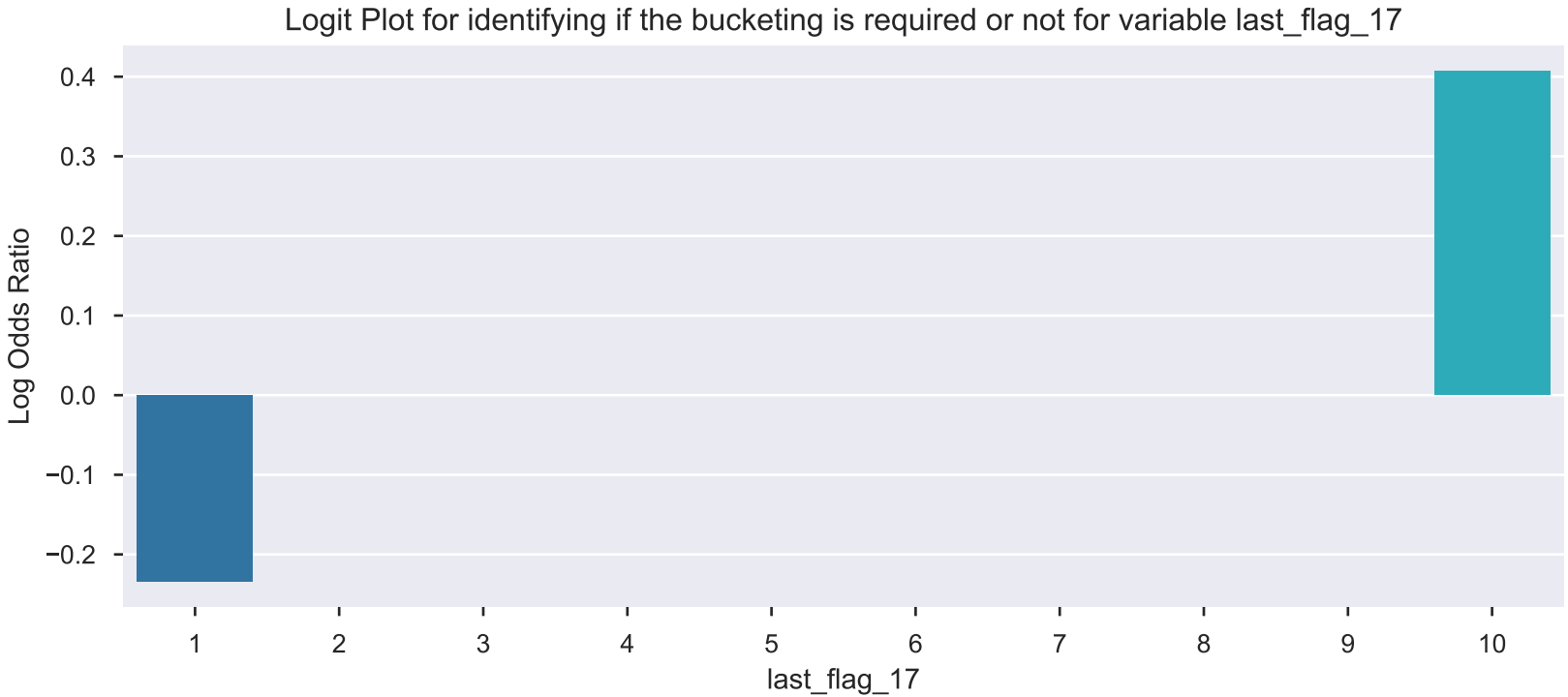

Logit Plot for identifying if the bucketing is required or not for variable last_flag_12
Log Odds Ratio
1.50
1.25
1.00
0.75
0.50
0.25
0.00
−0.25
1
2
3
4
5
6
7
8
9
10
last_flag_12

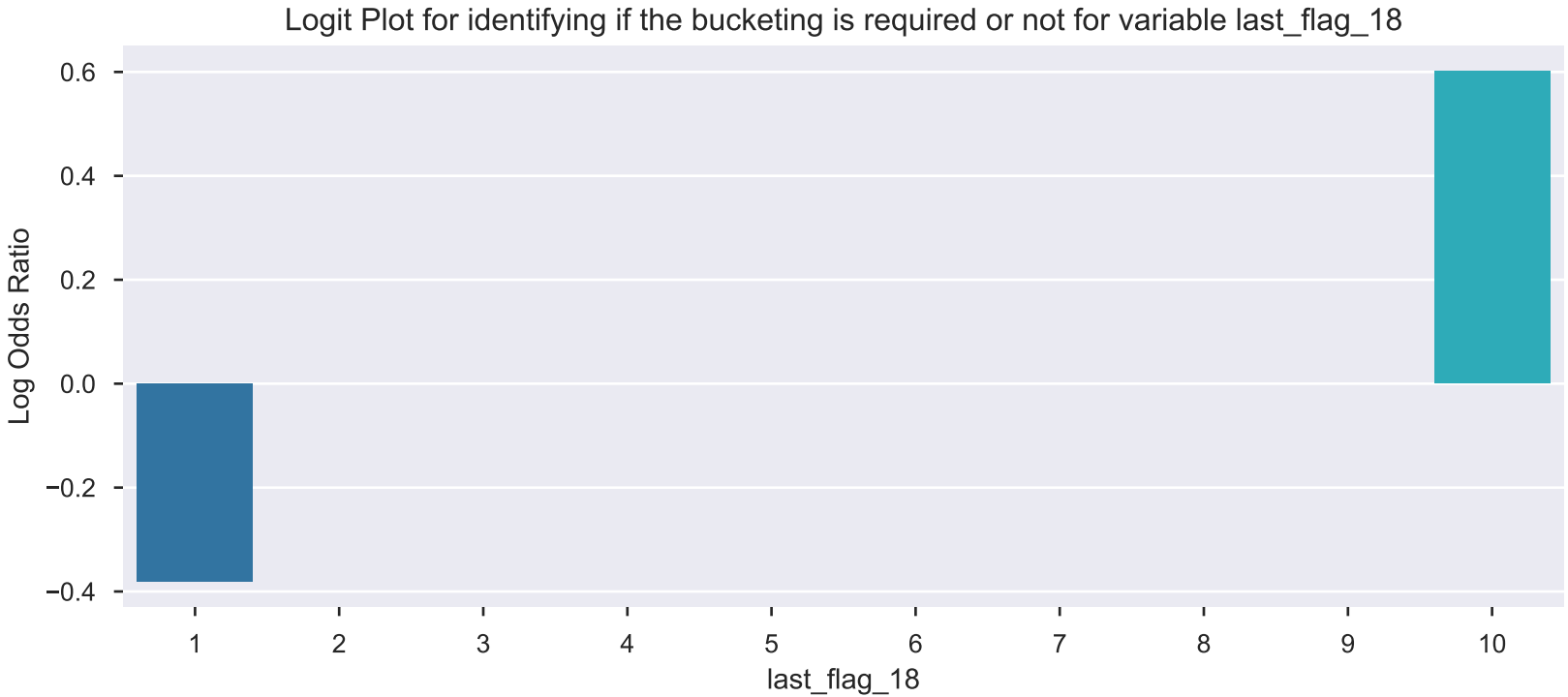

Logit Plot for identifying if the bucketing is required or not for variable last_flag_13
Log Odds Ratio
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
last_flag_13

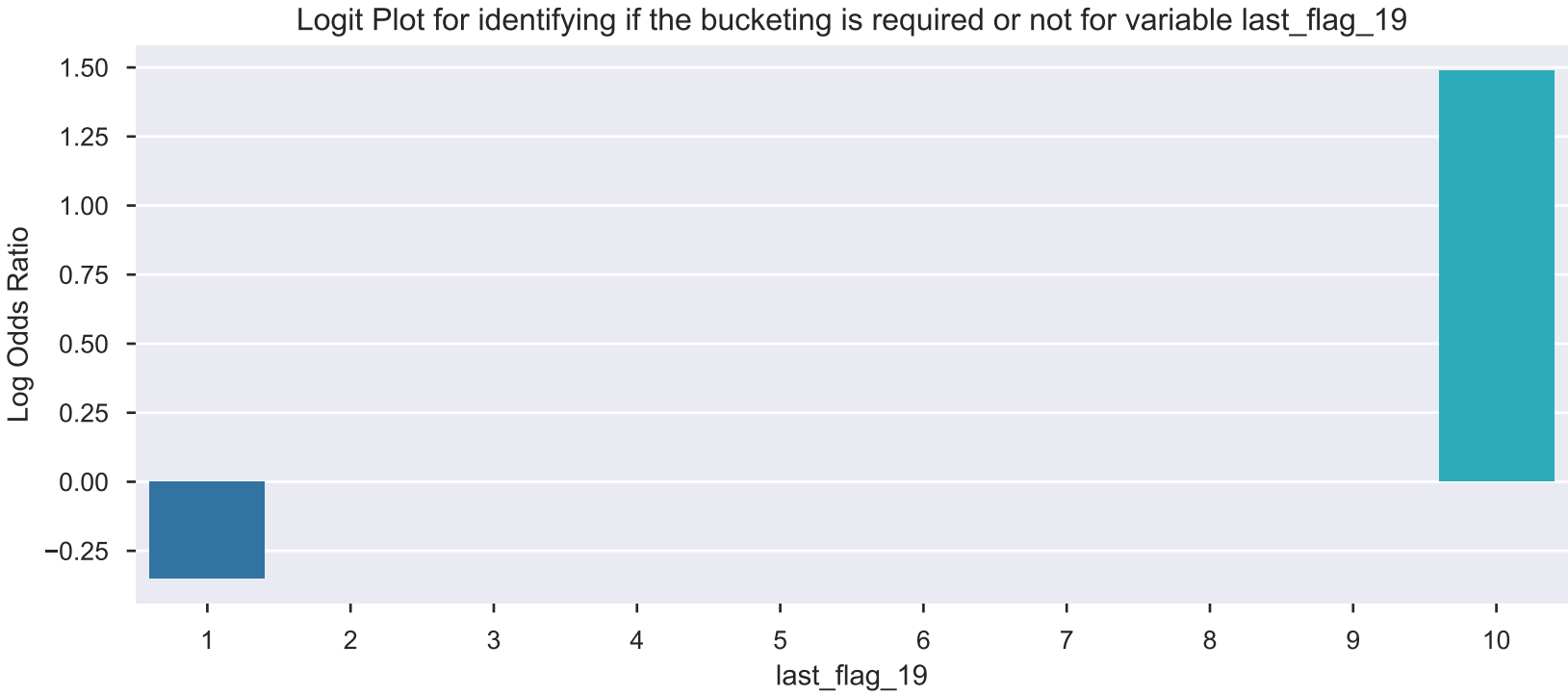

Logit Plot for identifying if the bucketing is required or not for variable last_flag_14
Log Odds Ratio
0.05
0.00
−0.05
−0.10
−0.15
−0.20
1
2
3
4
5
6
7
8
9
10
last_flag_14

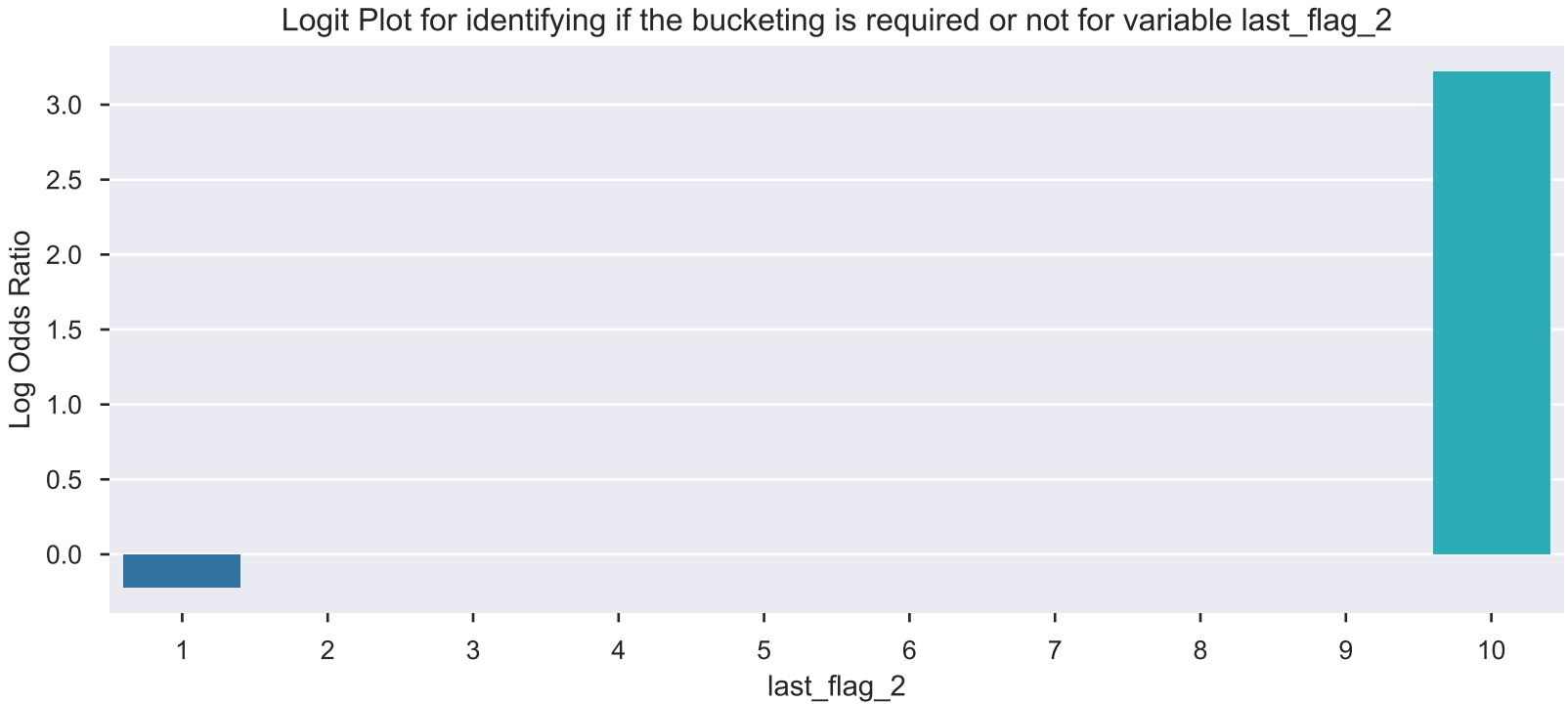

Logit Plot for identifying if the bucketing is required or not for variable last_flag_15
Log Odds Ratio
2.5
2.0
1.5
1.0
0.5
0.0
1
2
3
4
5
6
7
8
9
10
last_flag_15

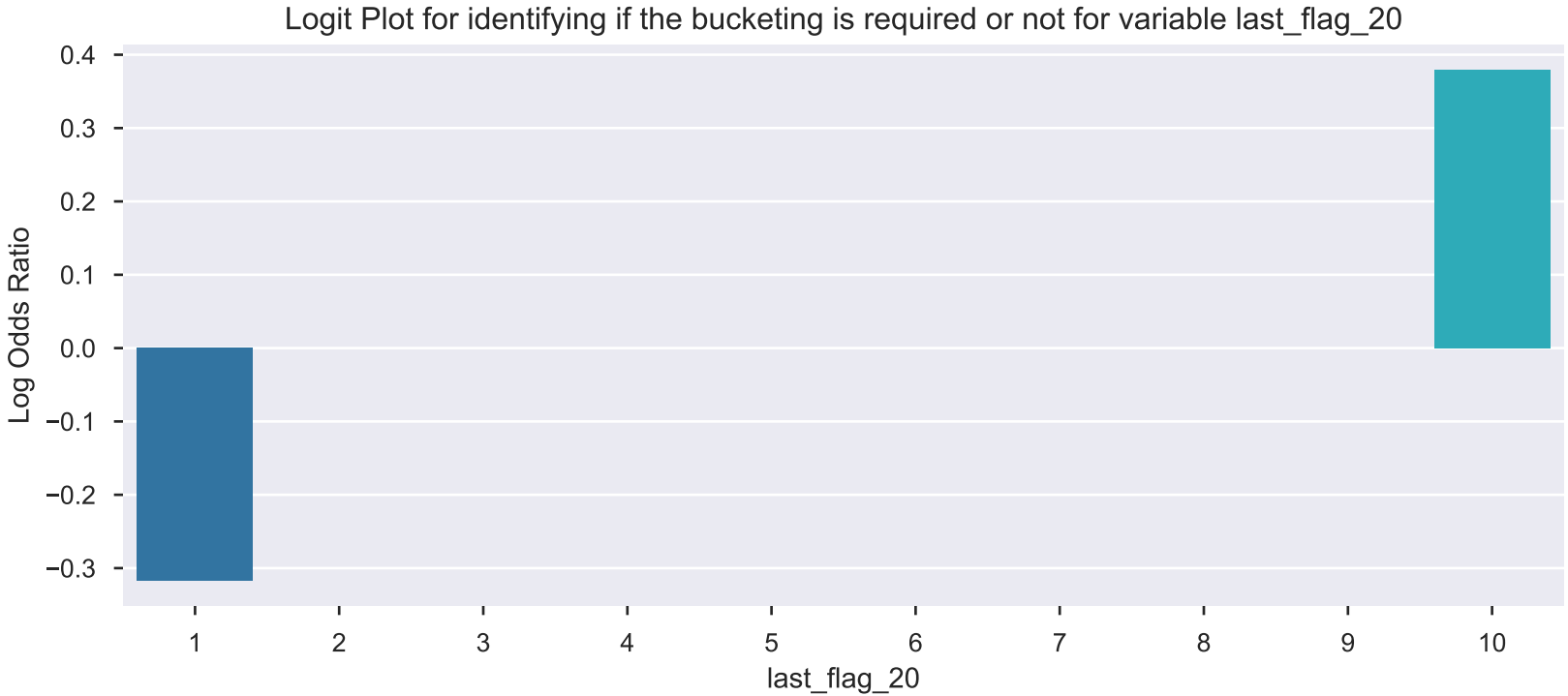

Logit Plot for identifying if the bucketing is required or not for variable last_flag_16
Log Odds Ratio
1.5
1.0
0.5
0.0
1
2
3
4
5
6
7
8
9
10
last_flag_16

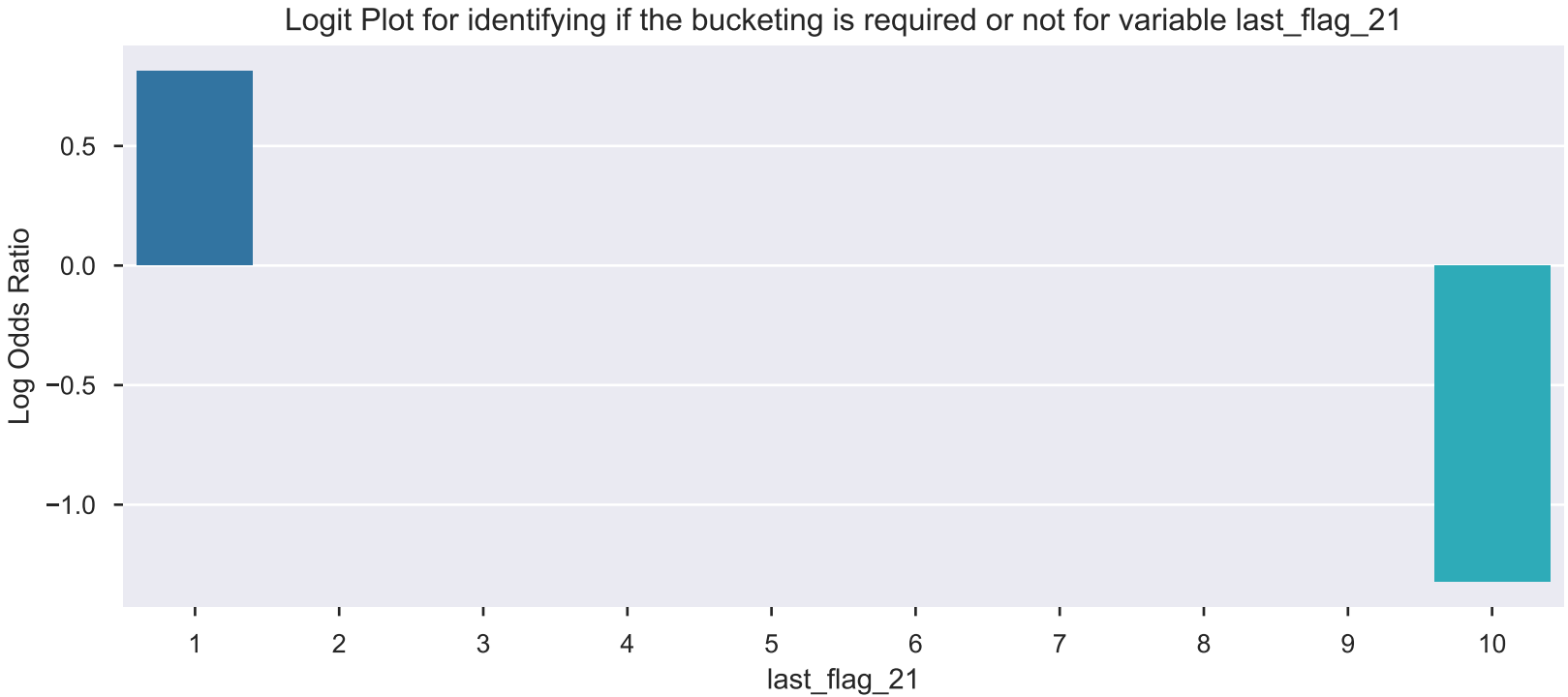

Logit Plot for identifying if the bucketing is required or not for variable last_flag_17
Log Odds Ratio
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
1
2
3
4
5
6
7
8
9
10
last_flag_17

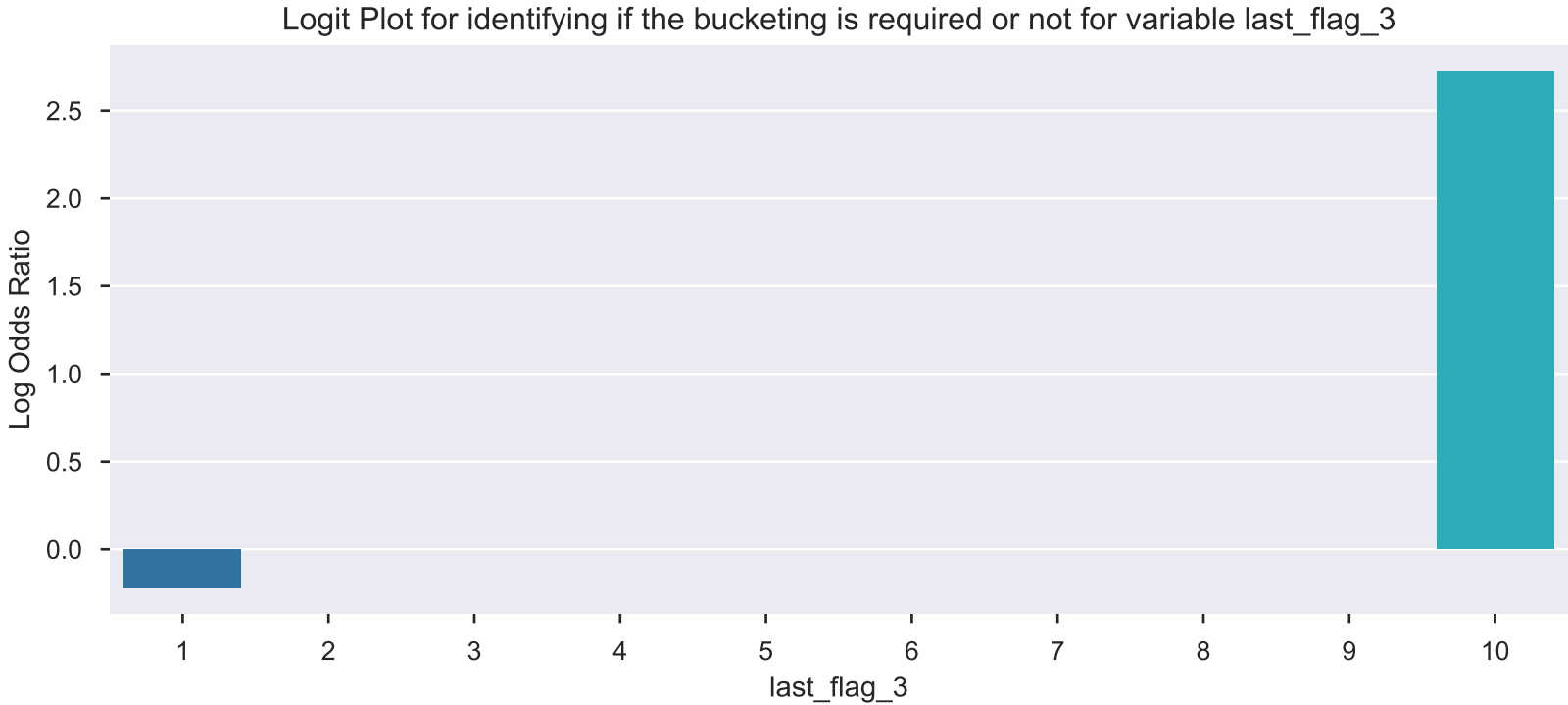

Logit Plot for identifying if the bucketing is required or not for variable last_flag_18
Log Odds Ratio
0.6
0.4
0.2
0.0
−0.2
−0.4
1
2
3
4
5
6
7
8
9
10
last_flag_18

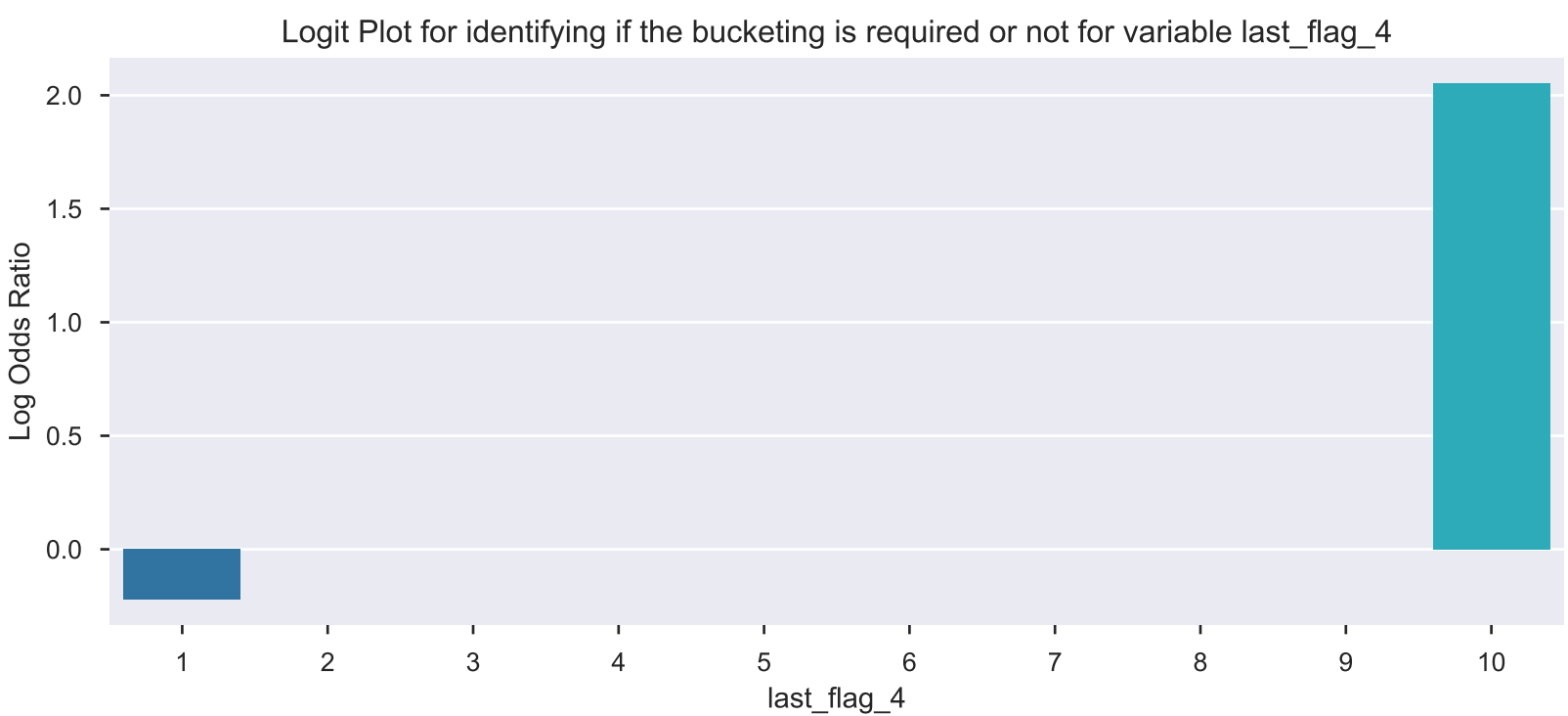

Logit Plot for identifying if the bucketing is required or not for variable last_flag_19
Log Odds Ratio
1.50
1.25
1.00
0.75
0.50
0.25
0.00
−0.25
1
2
3
4
5
6
7
8
9
10
last_flag_19

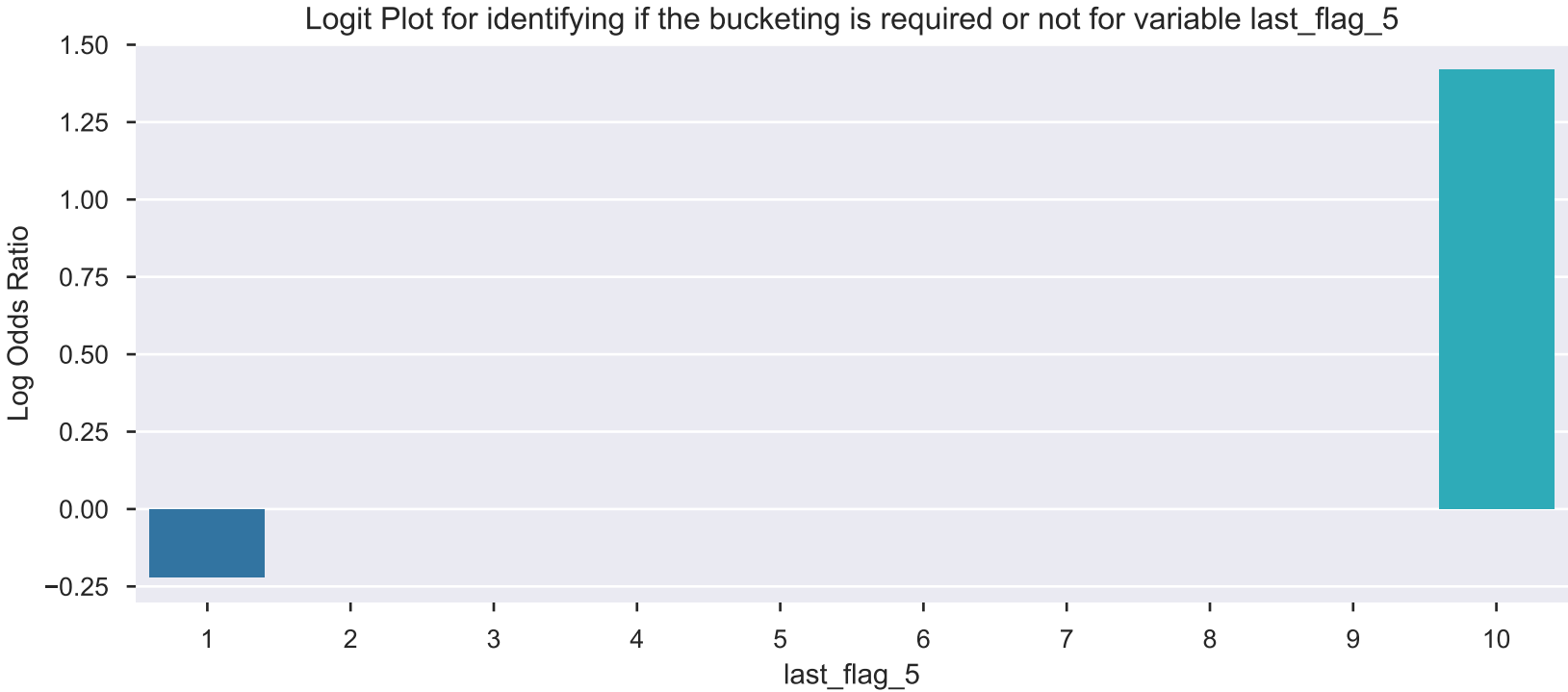

Logit Plot for identifying if the bucketing is required or not for variable last_flag_2
Log Odds Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1
2
3
4
5
6
7
8
9
10
last_flag_2

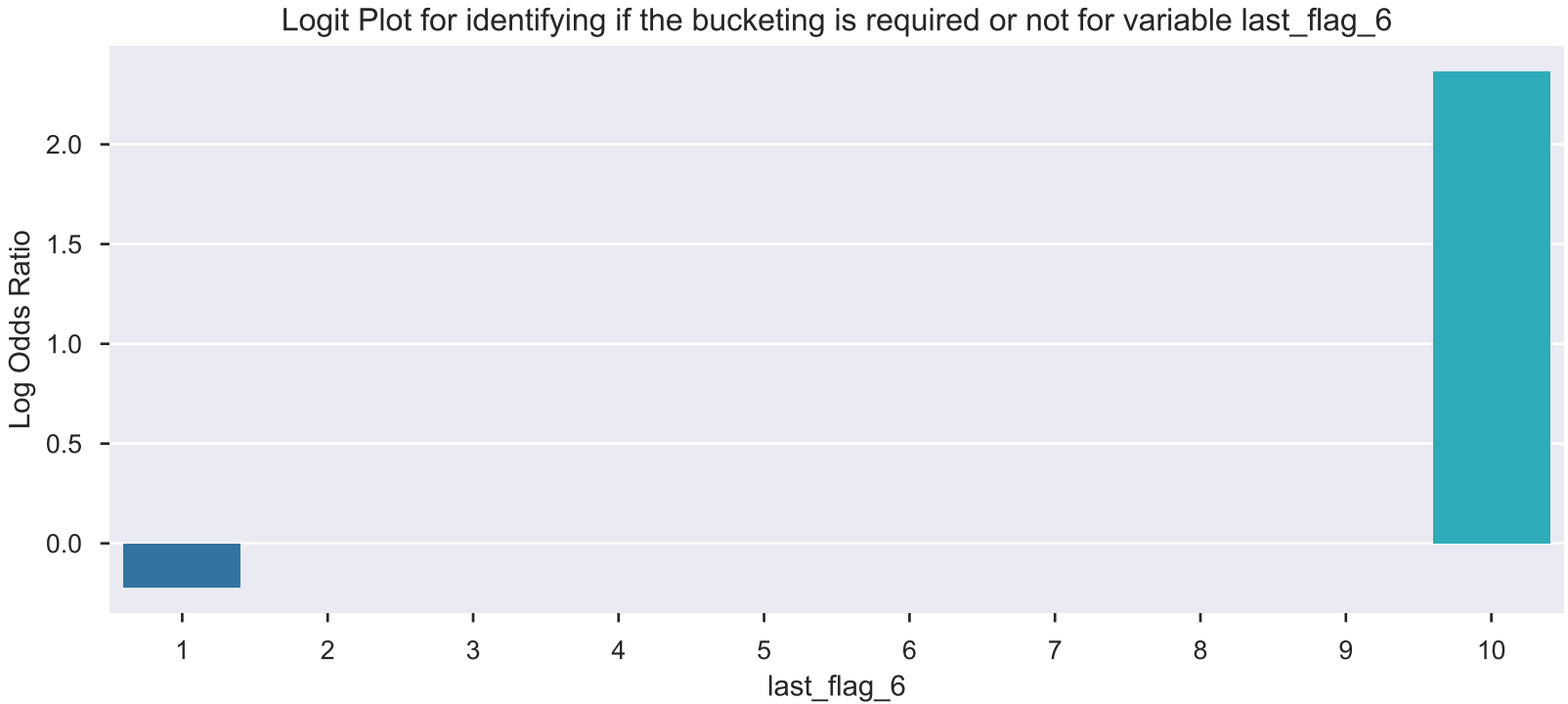

Logit Plot for identifying if the bucketing is required or not for variable last_flag_20
Log Odds Ratio
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
1
2
3
4
5
6
7
8
9
10
last_flag_20

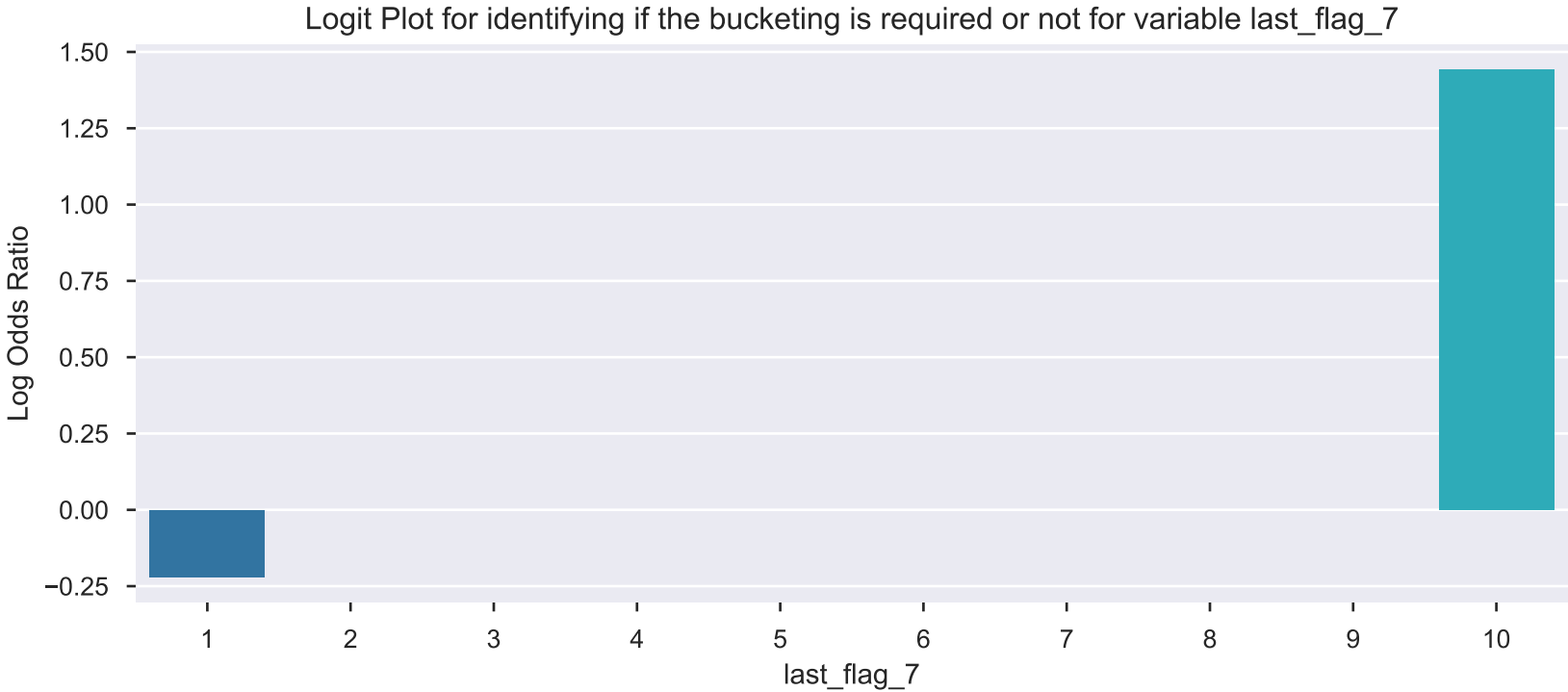

Logit Plot for identifying if the bucketing is required or not for variable last_flag_21
Log Odds Ratio
0.5
0.0
−0.5
−1.0
1
2
3
4
5
6
7
8
9
10
last_flag_21

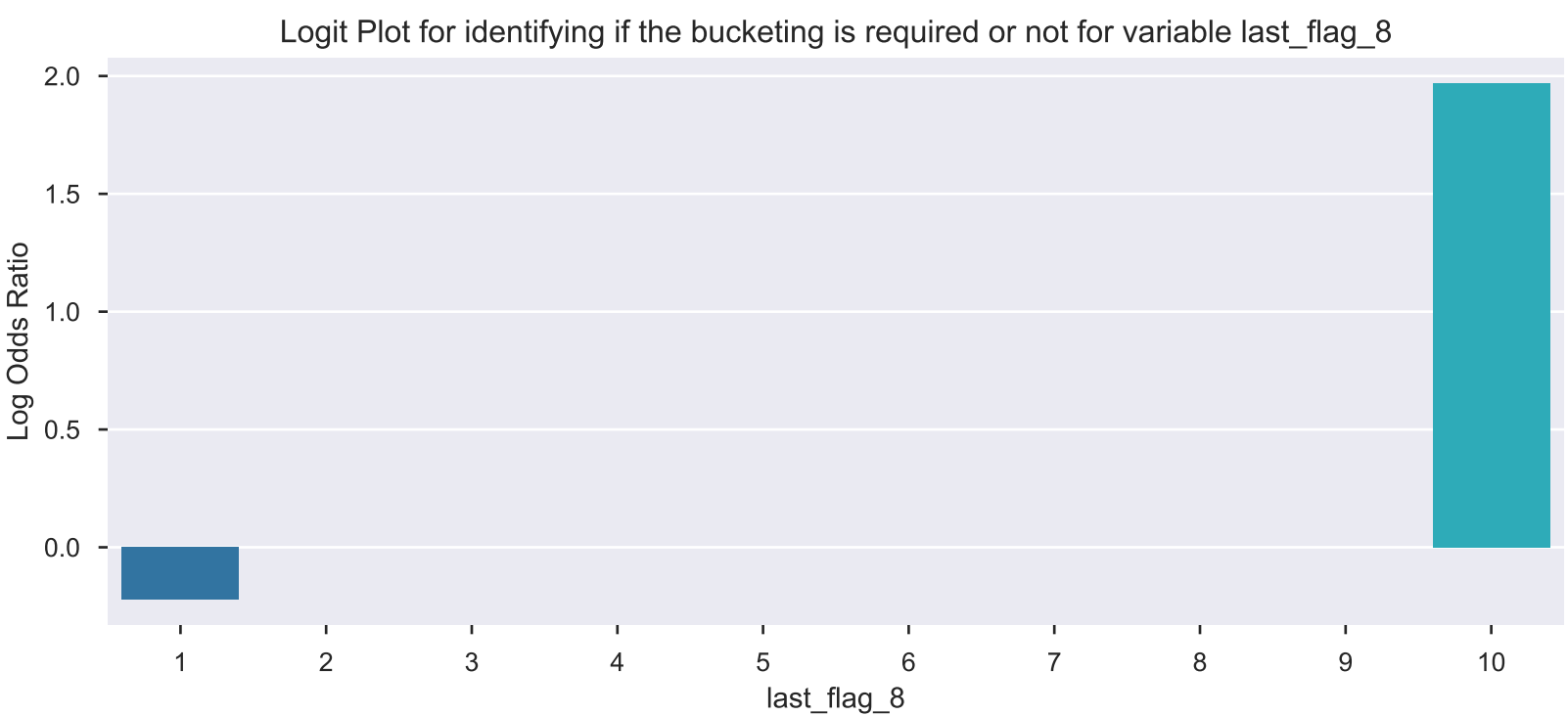

Logit Plot for identifying if the bucketing is required or not for variable last_flag_3
Log Odds Ratio
2.5
2.0
1.5
1.0
0.5
0.0
1
2
3
4
5
6
7
8
9
10
last_flag_3

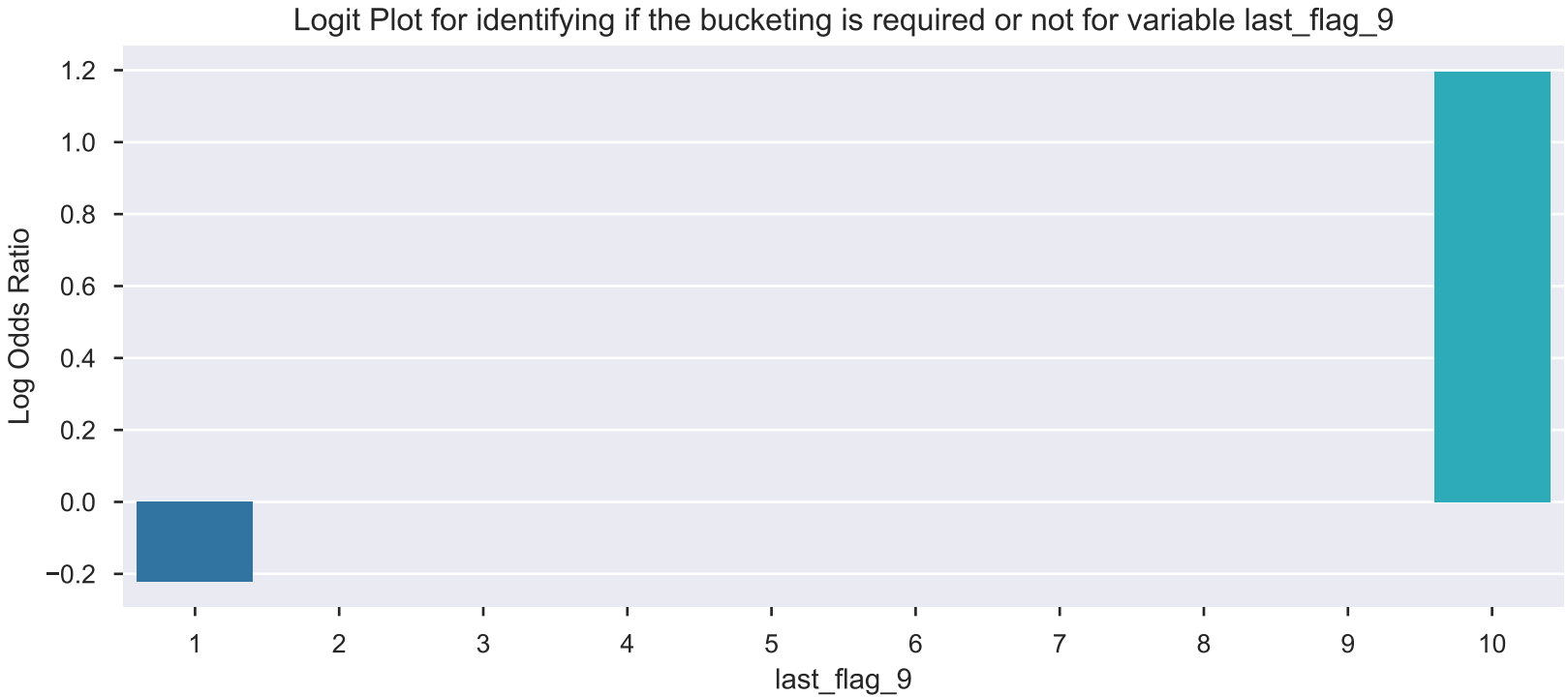

Logit Plot for identifying if the bucketing is required or not for variable last_flag_4
Log Odds Ratio
2.0
1.5
1.0
0.5
0.0
1
2
3
4
5
6
7
8
9
10
last_flag_4

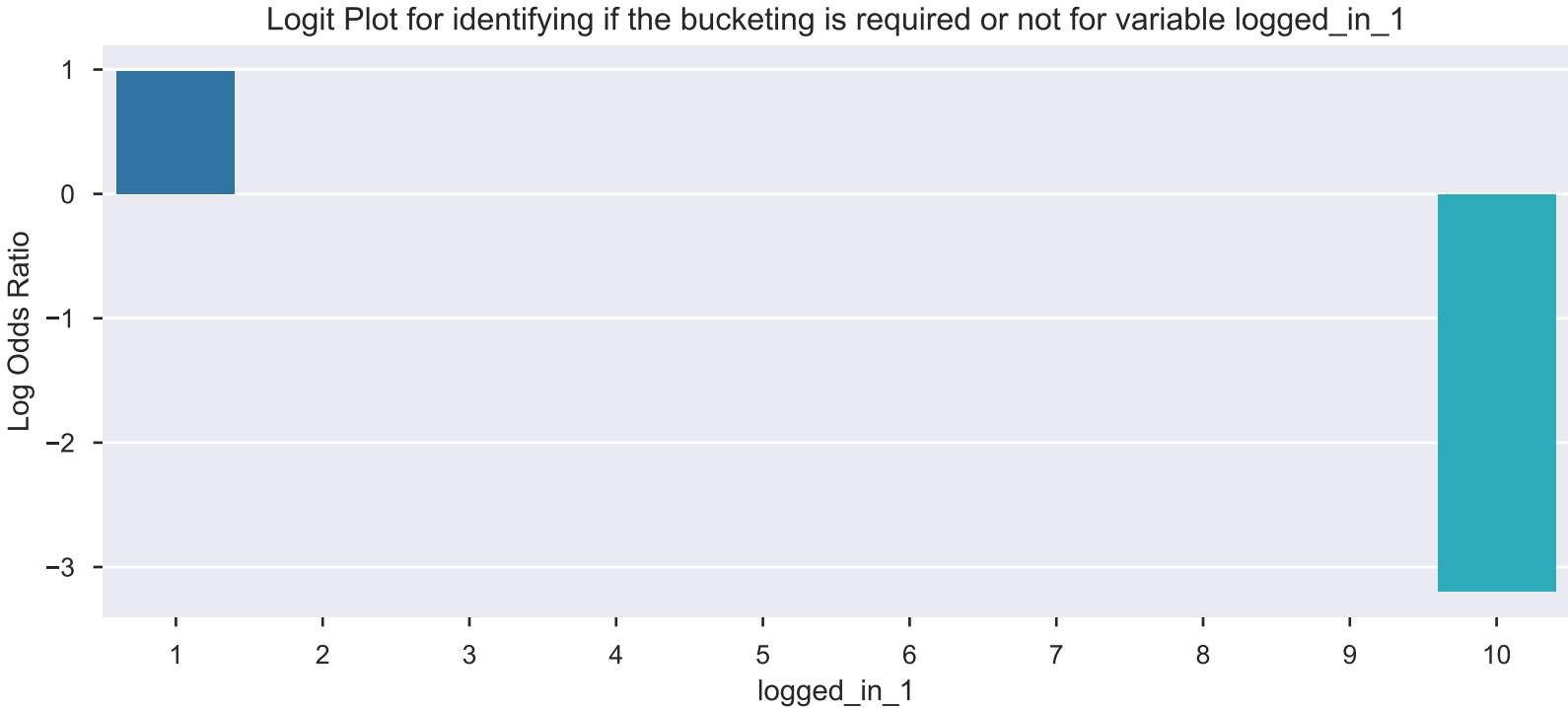

Logit Plot for identifying if the bucketing is required or not for variable last_flag_5
Log Odds Ratio
1.50
1.25
1.00
0.75
0.50
0.25
0.00
−0.25
1
2
3
4
5
6
7
8
9
10
last_flag_5

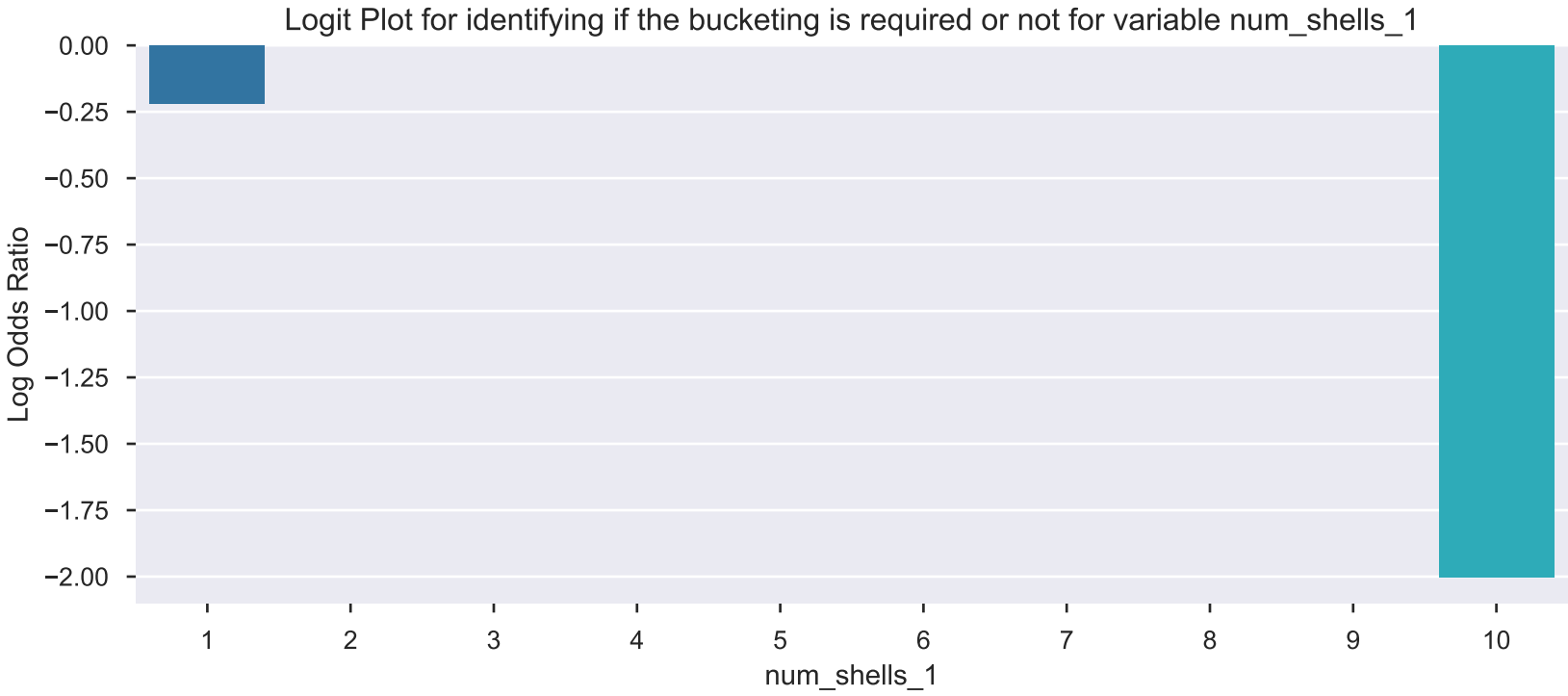

Logit Plot for identifying if the bucketing is required or not for variable last_flag_6
Log Odds Ratio
2.0
1.5
1.0
0.5
0.0
1
2
3
4
5
6
7
8
9
10
last_flag_6

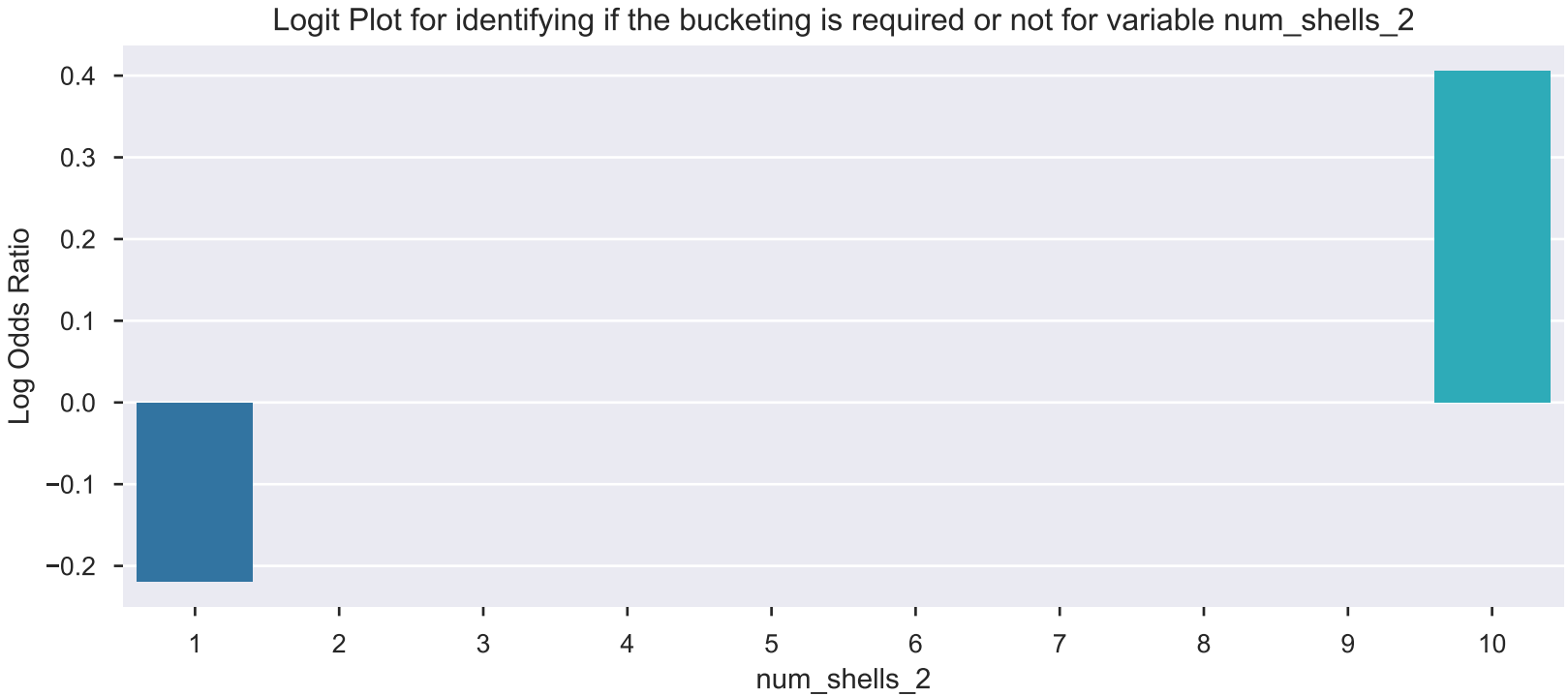

Logit Plot for identifying if the bucketing is required or not for variable last_flag_7
Log Odds Ratio
1.50
1.25
1.00
0.75
0.50
0.25
0.00
−0.25
1
2
3
4
5
6
7
8
9
10
last_flag_7

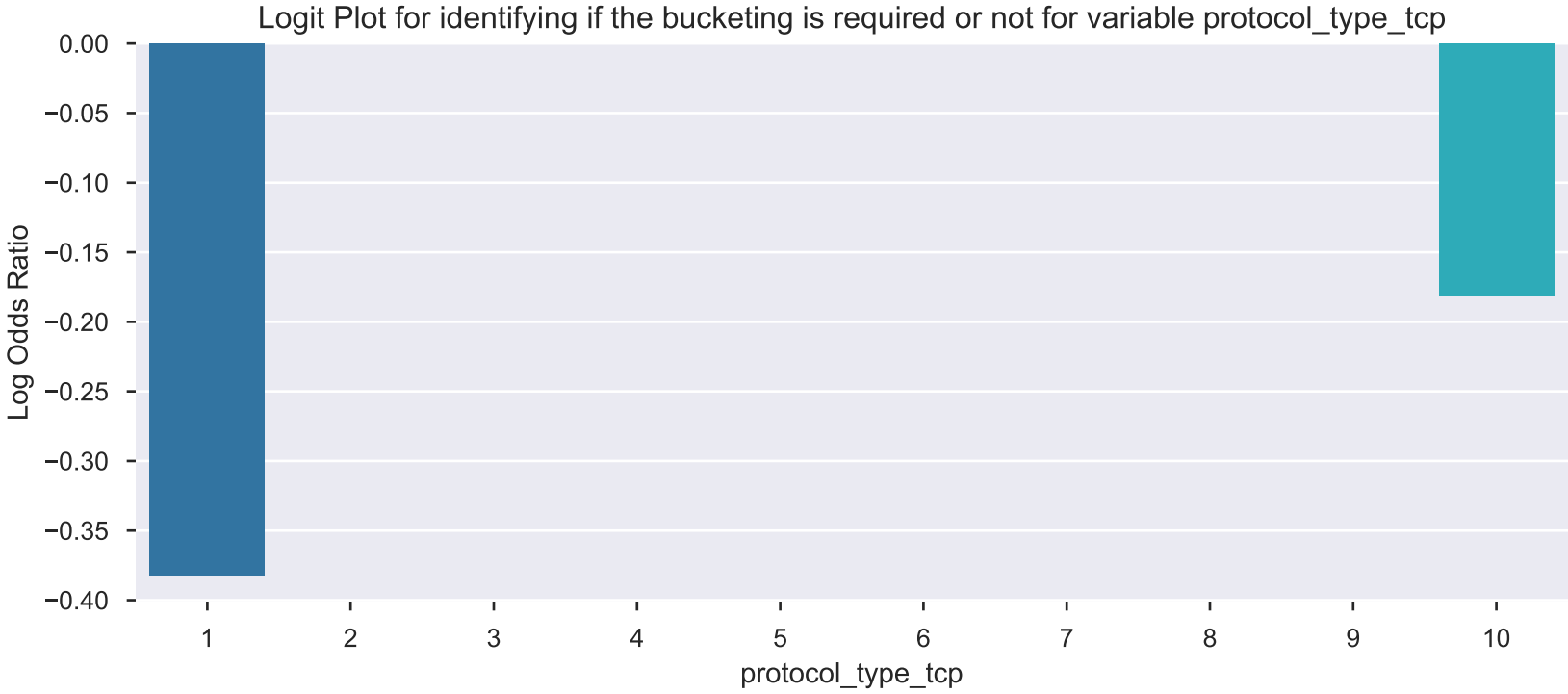

Logit Plot for identifying if the bucketing is required or not for variable last_flag_8
Log Odds Ratio
2.0
1.5
1.0
0.5
0.0
1
2
3
4
5
6
7
8
9
10
last_flag_8

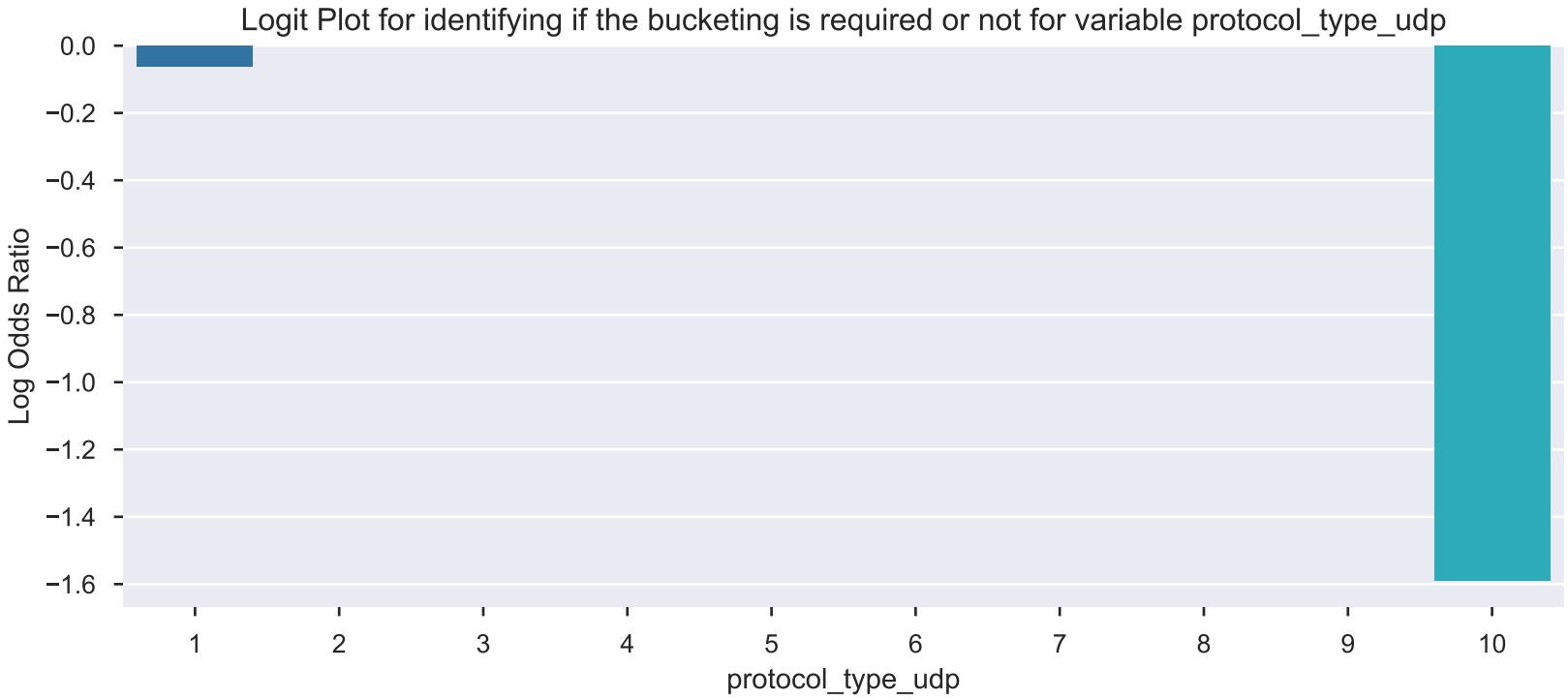

Logit Plot for identifying if the bucketing is required or not for variable last_flag_9
Log Odds Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
last_flag_9

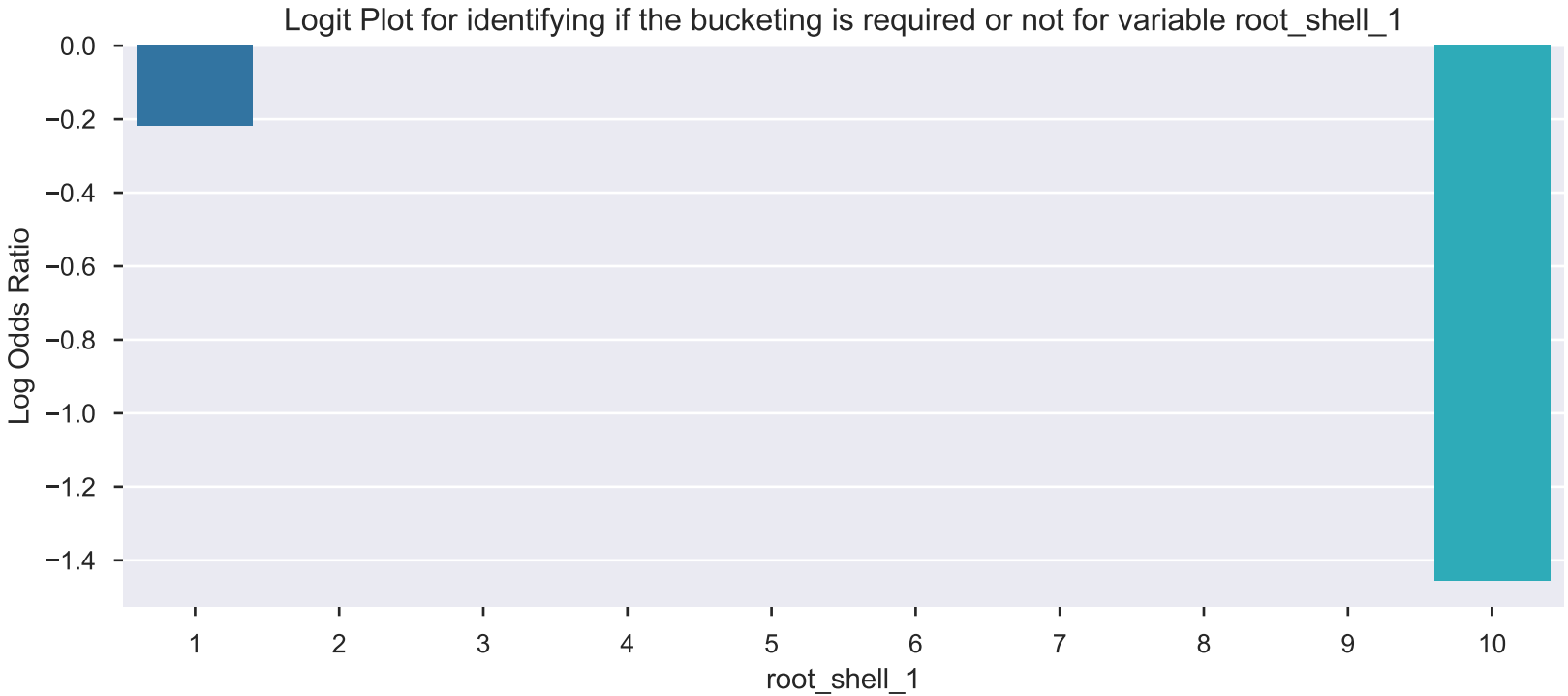

Logit Plot for identifying if the bucketing is required or not for variable logged_in_1
Log Odds Ratio
1
0
−1
−2
−3
1
2
3
4
5
6
7
8
9
10
logged_in_1

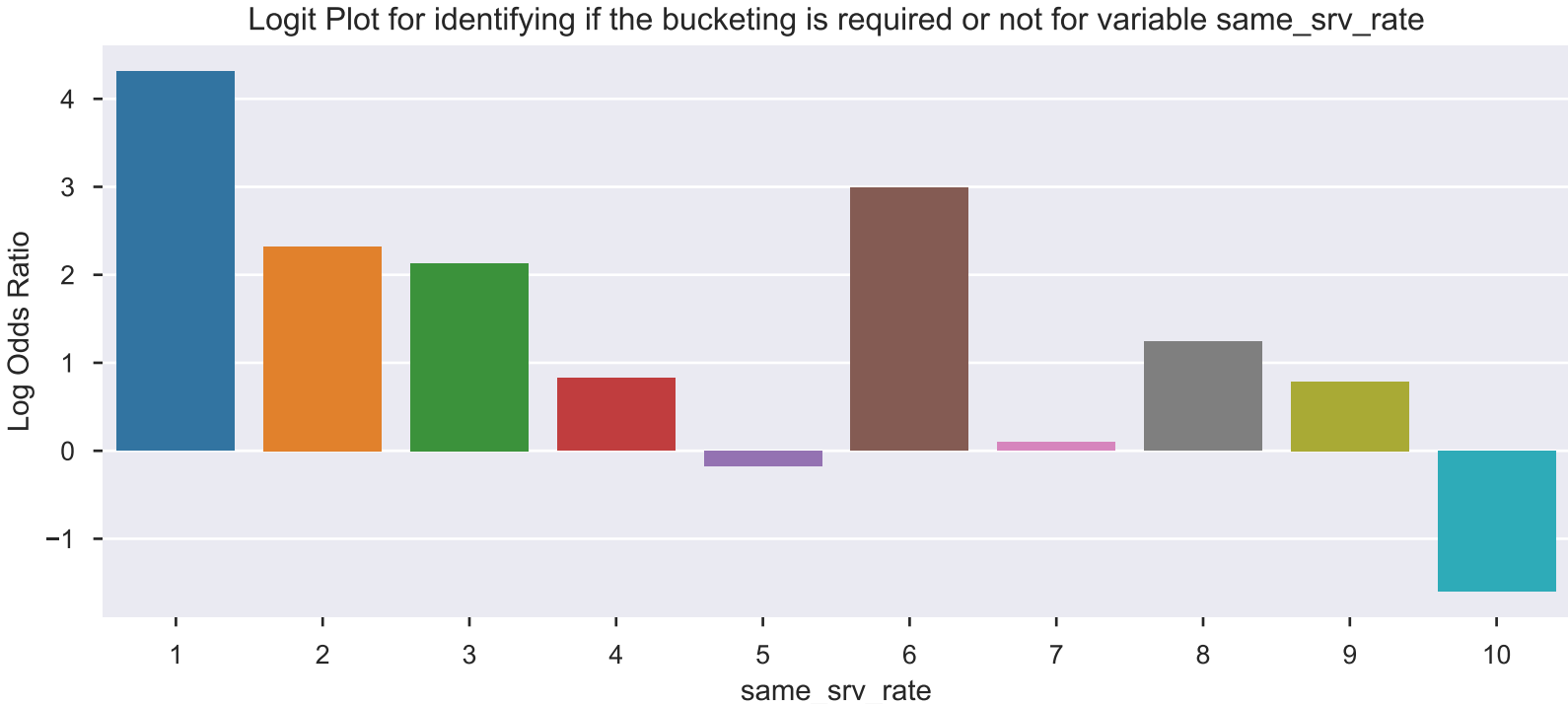

Logit Plot for identifying if the bucketing is required or not for variable num_shells_1
Log Odds Ratio
0.00
−0.25
−0.50
−0.75
−1.00
−1.25
−1.50
−1.75
−2.00
1
2
3
4
5
6
7
8
9
10
num_shells_1

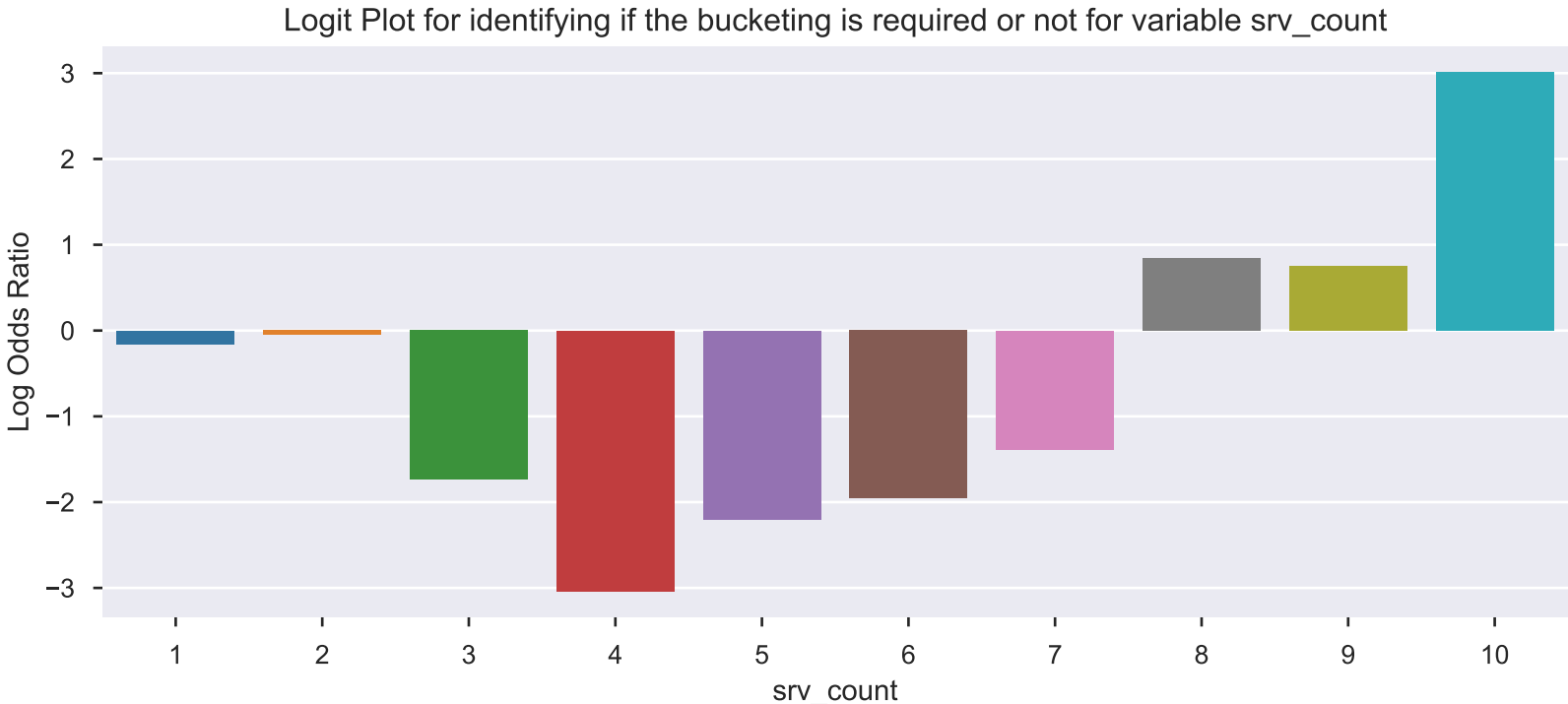

Logit Plot for identifying if the bucketing is required or not for variable num_shells_2
Log Odds Ratio
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
1
2
3
4
5
6
7
8
9
10
num_shells_2

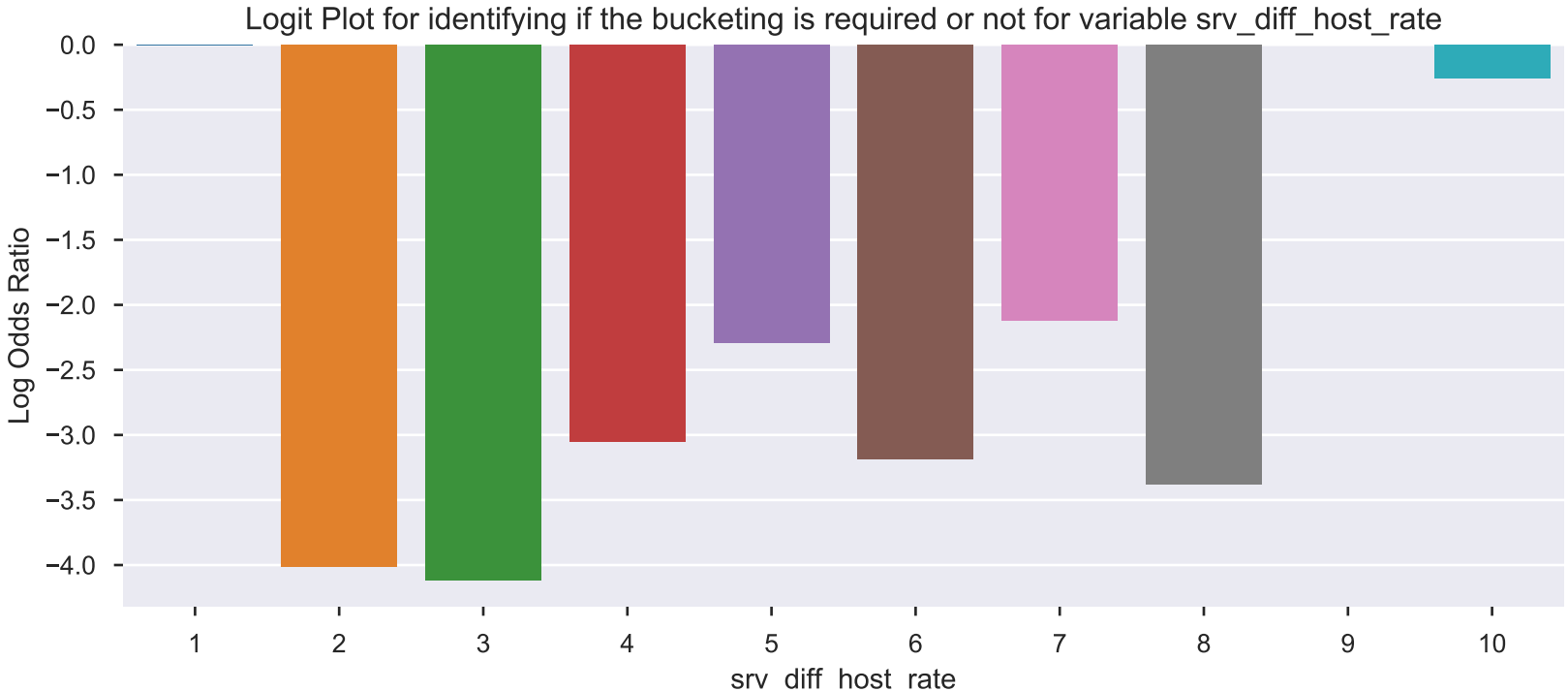

Logit Plot for identifying if the bucketing is required or not for variable protocol_type_tcp
Log Odds Ratio
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
−0.35
−0.40
1
2
3
4
5
6
7
8
9
10
protocol_type_tcp

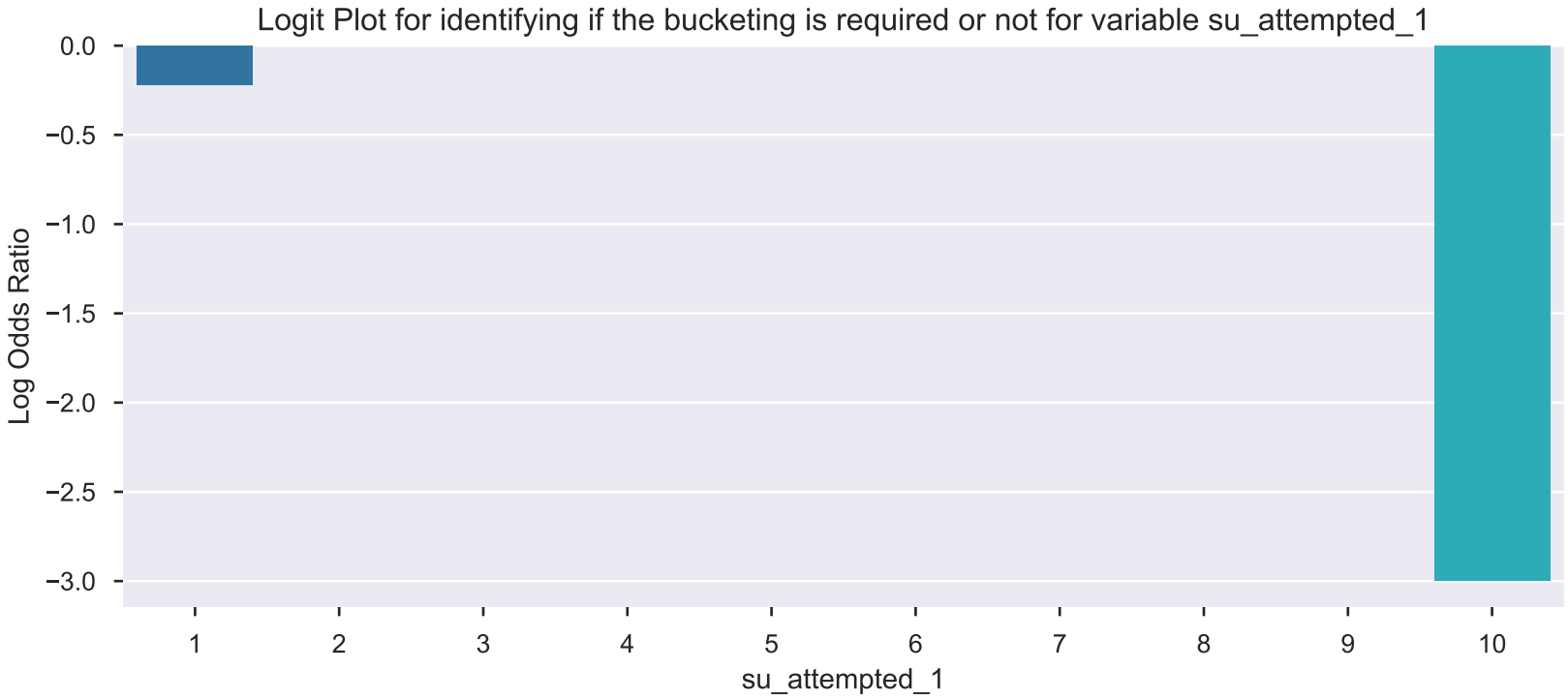

Logit Plot for identifying if the bucketing is required or not for variable protocol_type_udp
Log Odds Ratio
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
−1.2
−1.4
−1.6
1
2
3
4
5
6
7
8
9
10
protocol_type_udp

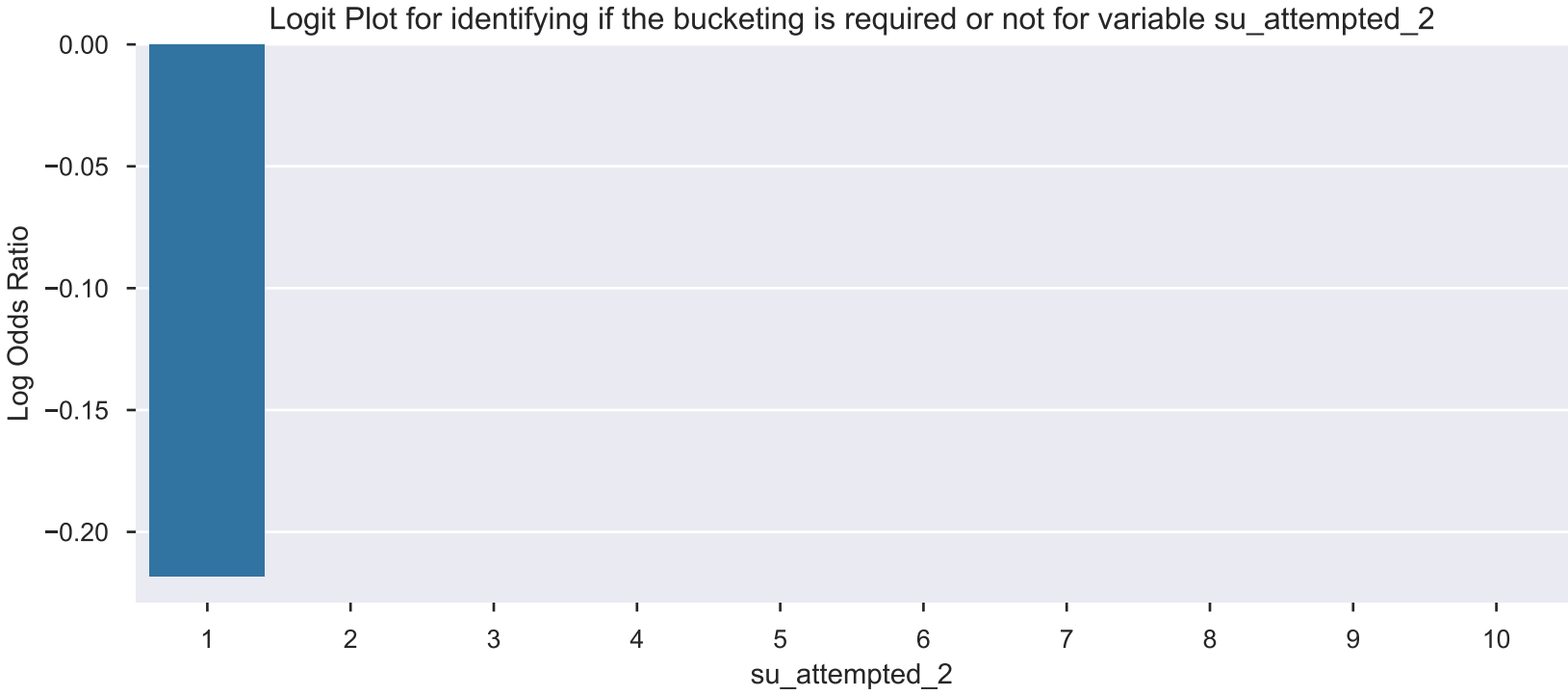

Logit Plot for identifying if the bucketing is required or not for variable root_shell_1
Log Odds Ratio
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
−1.2
−1.4
1
2
3
4
5
6
7
8
9
10
root_shell_1

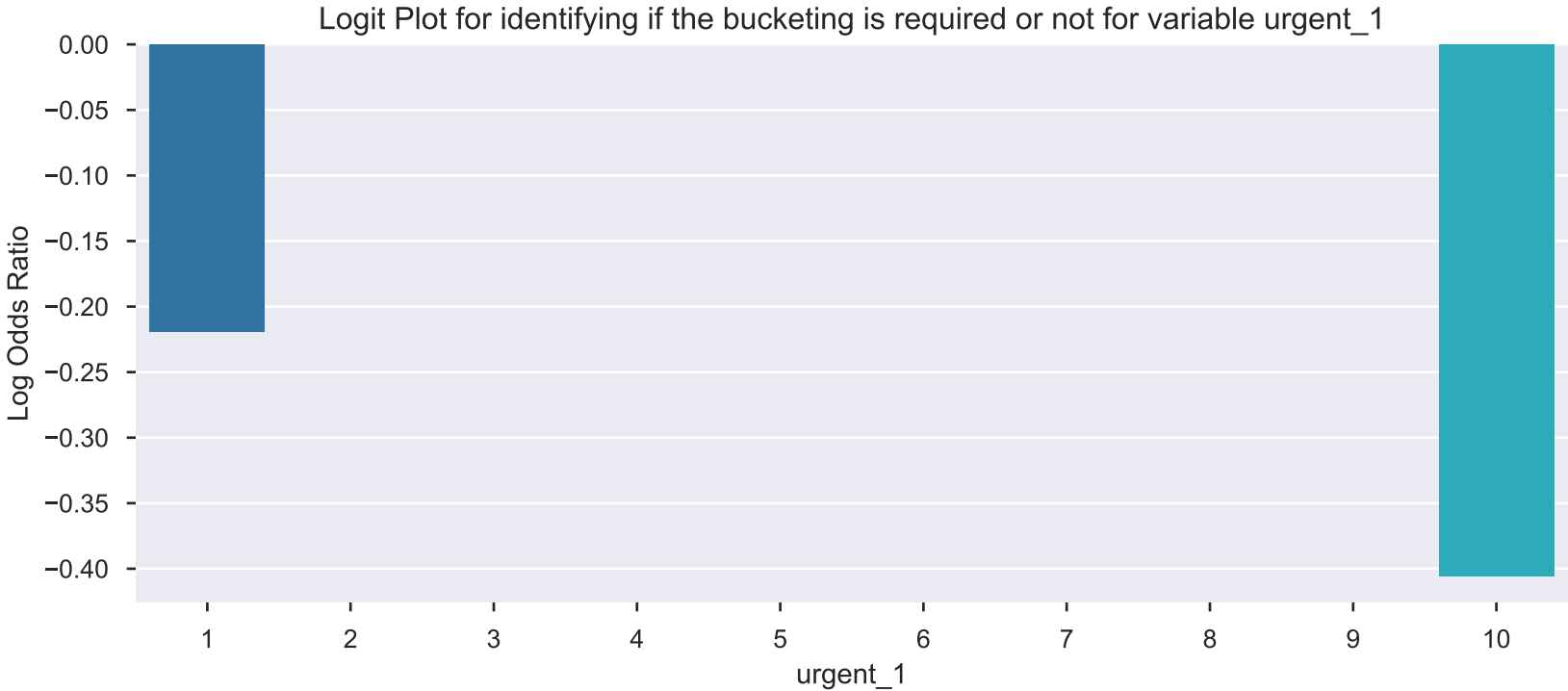

Logit Plot for identifying if the bucketing is required or not for variable same_srv_rate
Log Odds Ratio
4
3
2
1
0
−1
1
2
3
4
5
6
7
8
9
10
same_srv_rate

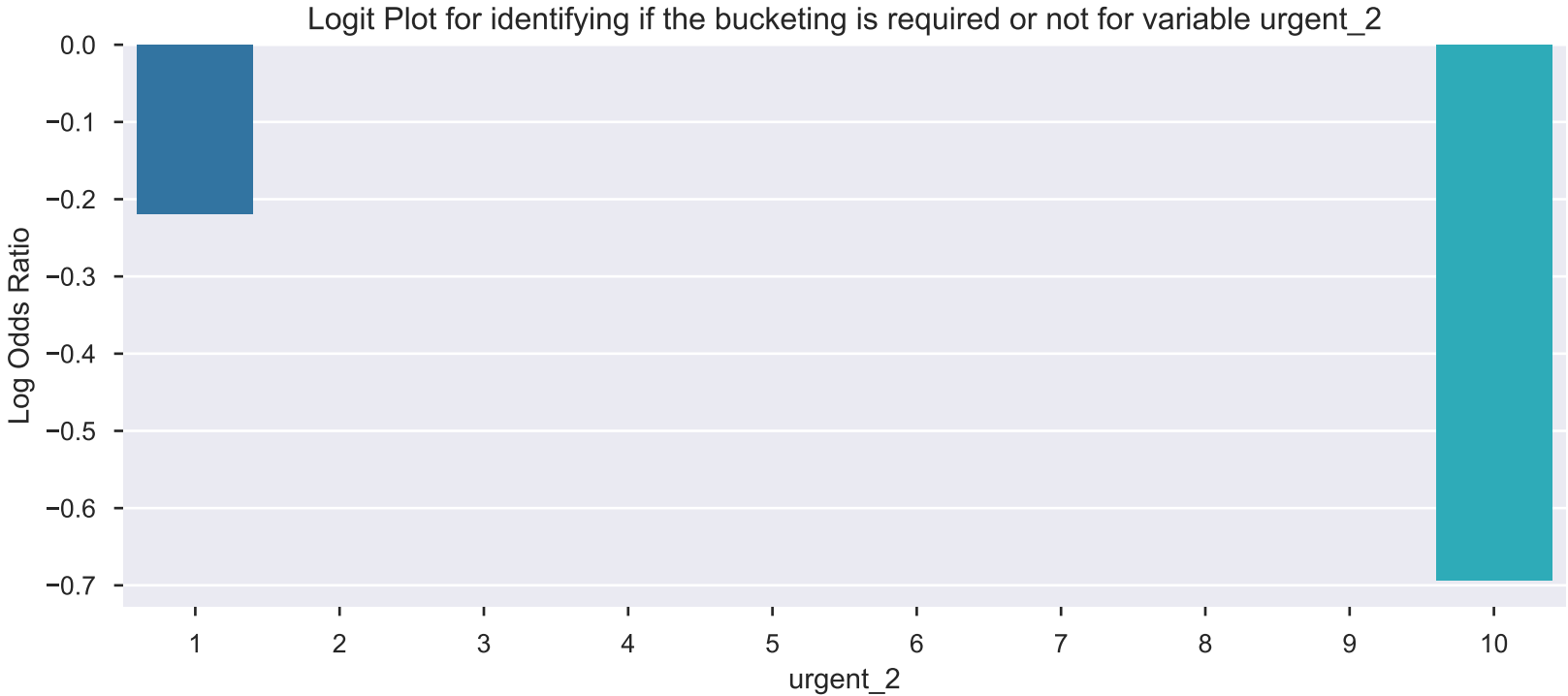

Logit Plot for identifying if the bucketing is required or not for variable srv_count
Log Odds Ratio
3
2
1
0
−1
−2
−3
1
2
3
4
5
6
7
8
9
10
srv_count

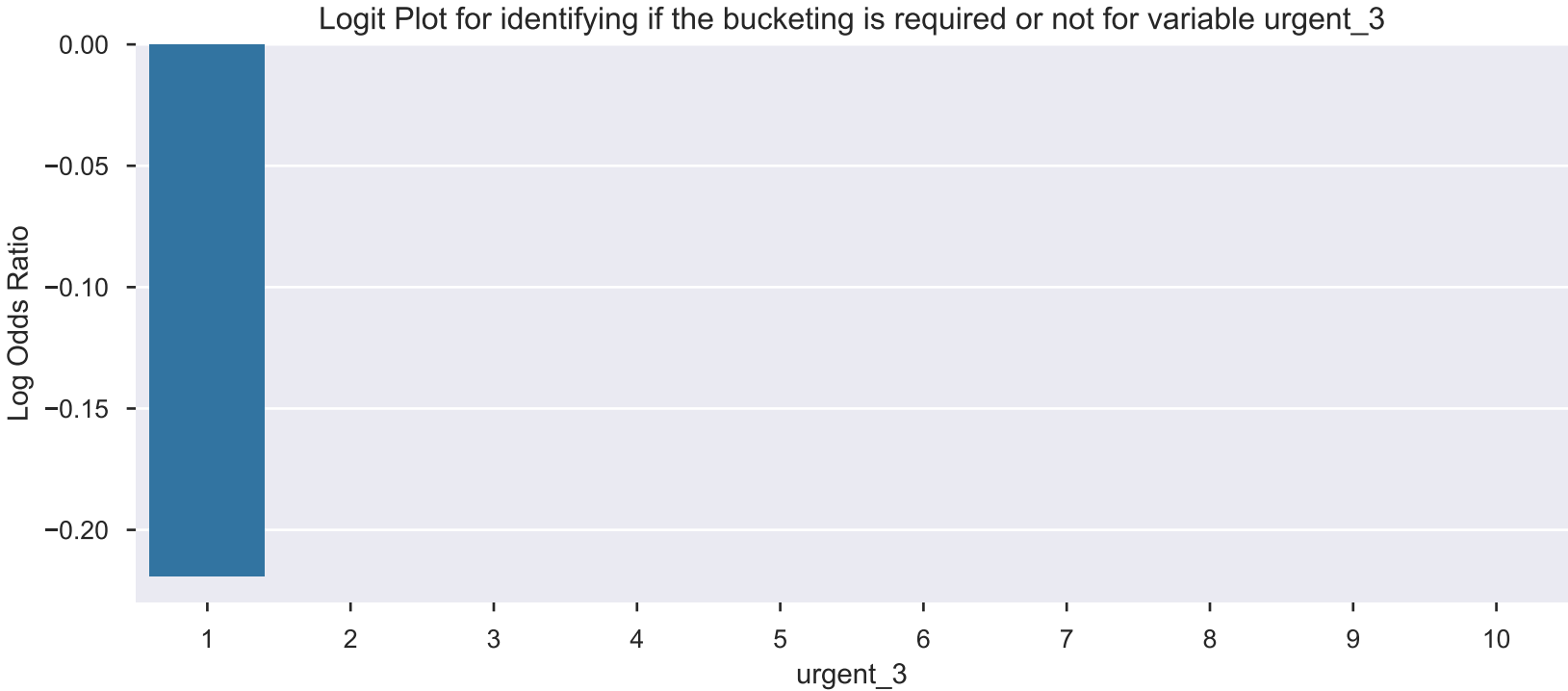

Logit Plot for identifying if the bucketing is required or not for variable srv_diff_host_rate
Log Odds Ratio
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
−3.0
−3.5
−4.0
1
2
3
4
5
6
7
8
9
10
srv_diff_host_rate

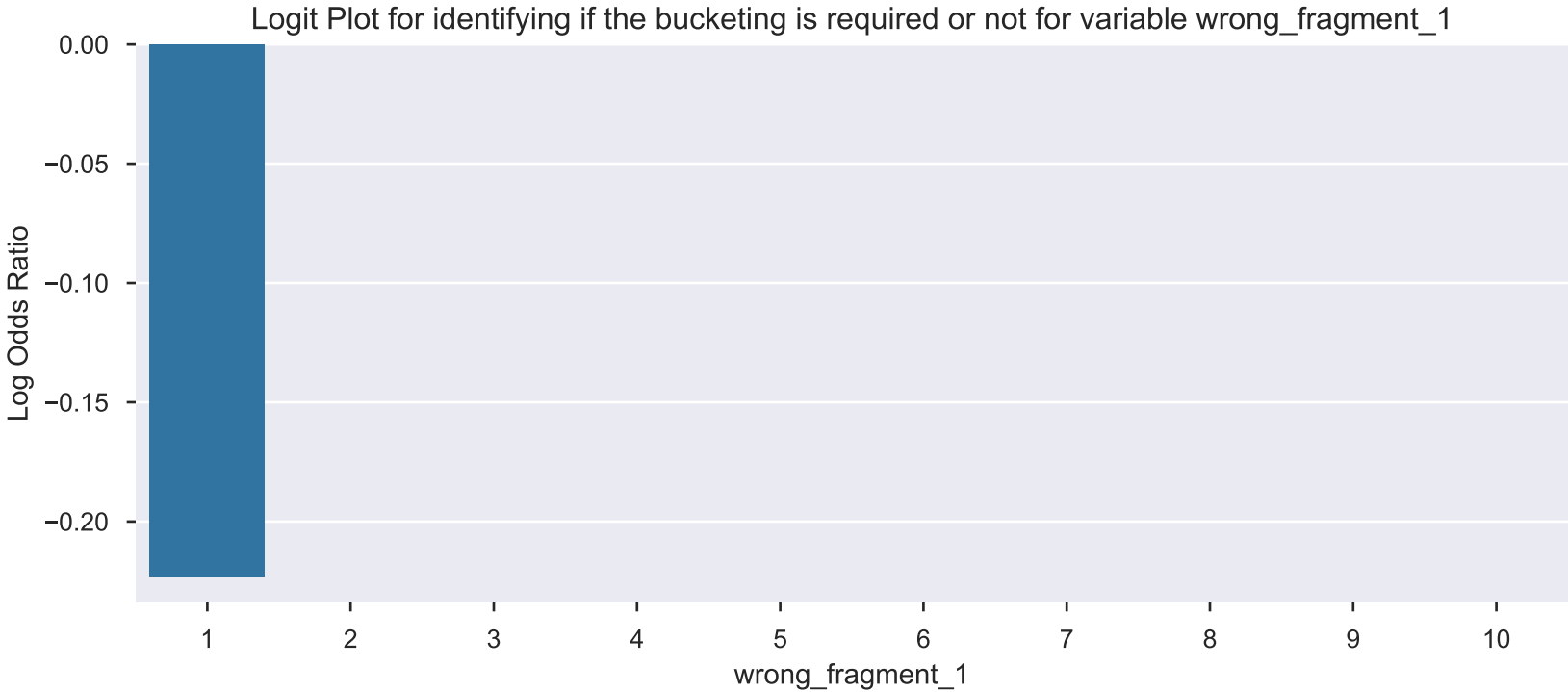

Logit Plot for identifying if the bucketing is required or not for variable su_attempted_1
Log Odds Ratio
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
−3.0
1
2
3
4
5
6
7
8
9
10
su_attempted_1

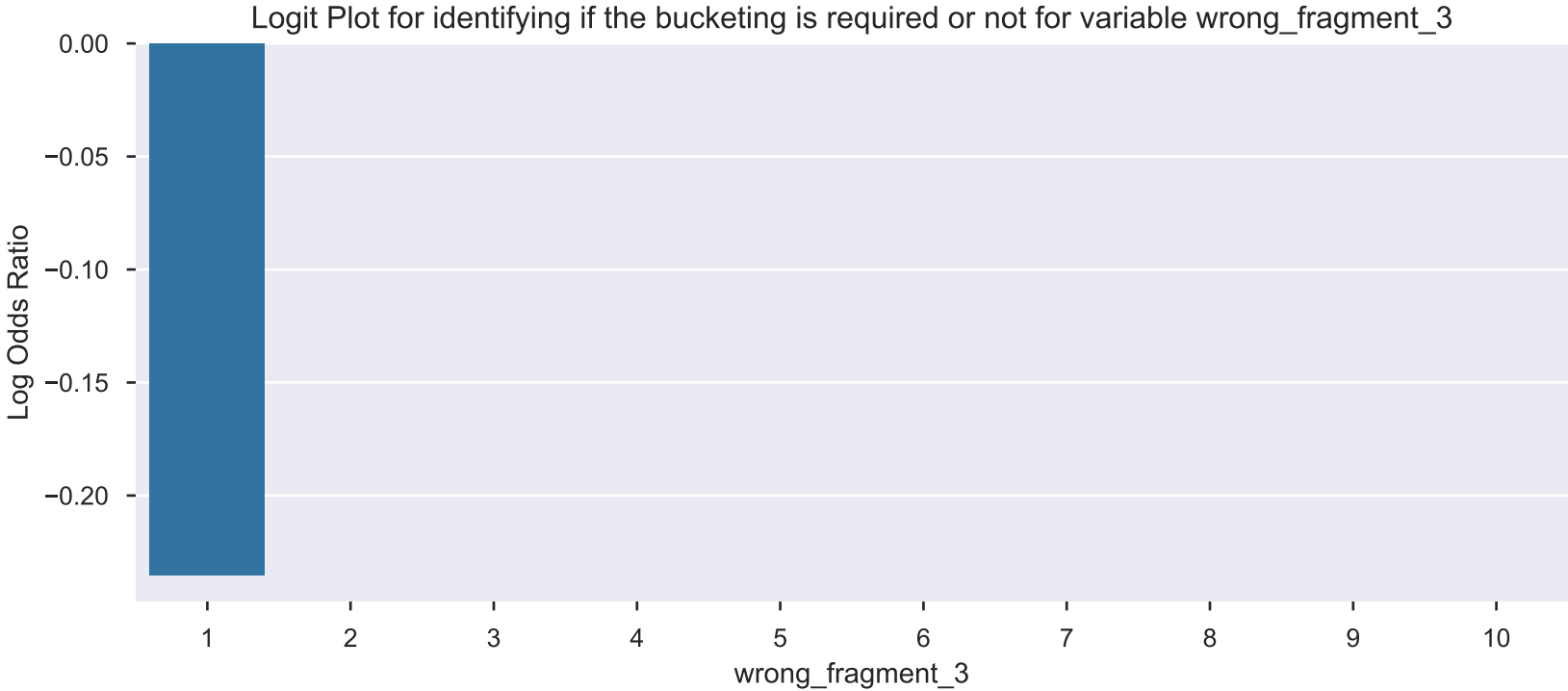

Logit Plot for identifying if the bucketing is required or not for variable su_attempted_2
0.00
−0.05
−0.10
−0.15
−0.20
Log Odds Ratio
1
2
3
4
5
6
7
8
9
10
su_attempted_2


Logit Plot for identifying if the bucketing is required or not for variable urgent_1
Log Odds Ratio
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
−0.35
−0.40
1
2
3
4
5
6
7
8
9
10
urgent_1


Logit Plot for identifying if the bucketing is required or not for variable urgent_2
Log Odds Ratio
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
1
2
3
4
5
6
7
8
9
10
urgent_2


Logit Plot for identifying if the bucketing is required or not for variable urgent_3
Log Odds Ratio
0.00
−0.05
−0.10
−0.15
−0.20
1
2
3
4
5
6
7
8
9
10
urgent_3


Logit Plot for identifying if the bucketing is required or not for variable wrong_fragment_1
0.00
−0.05
−0.10
−0.15
−0.20
Log Odds Ratio
1
2
3
4
5
6
7
8
9
10
wrong_fragment_1


Logit Plot for identifying if the bucketing is required or not for variable wrong_fragment_3
0.00
−0.05
−0.10
−0.15
−0.20
Log Odds Ratio
1
2
3
4
5
6
7
8
9
10
wrong_fragment_3