

LIST OF TABLE

Table I.1 List of Alternative Solutions	5
Table II.1 Research Processes and Method Used.....	20
Table II.2 Previous Research.....	21
Table III.1 Integrated System Component Identification.....	25
Table III.2 Gantt Chart Completion Plan	26
Table IV.1 Product 1 Salvage Value from Discount Applied	31
Table IV.2 Product 2 Salvage Value from Discount Applied	31
Table IV.3 Omaiza Quilted Shoulder Bag Beige Sales data	32
Table IV.4 Omaiza Quilted Shoulder Bag Beige Sales data	33
Table IV.5 Gap of Inbound and Outbound of Products 2020.....	37
Table IV.6 Gap of Inbound and Outbound of Products 2021	40
Table IV.7 Gap of Inbound and Outbound of Products 2022.....	43
Table IV.8 Improvement Design Specification	44
Table IV.9 List of Product, Forecast, and Demand	46
Table IV.10 List of Product, Forecast, and Demand (Continued)	47
Table IV.11 A/F Ratio.....	48
Table IV.12 Sorted A/F Ratio	51
Table IV.13 Expected Actual Demand	56
Table IV.14 Quantity Q	57
Table IV.15 Normal Distribution Value.....	58
Table IV.16 Distribution Function.....	60
Table IV.17 Expected Lost Sales of Product 1	64
Table IV.18 Expected Lost Sales of Product 2	64
Table IV.19 Expected Sales of Product 1	64
Table IV.20 Expected Sales of Product 2	65
Table IV.21 Expected Leftover Inventory of Product 1	65
Table IV.22 Expected Leftover Inventory of Product 2	65
Table IV.23 Expected Profit of Product 1	66
Table IV.24 Expected Profit of Product 2	66
Table IV.25 1 st Scenario of Numerical for Product 1 with Q = 104.....	67
Table IV.26 2 nd Scenario of Numerical for Product 1 with Q = 104	68

Table IV.27 3 rd Scenario of Numerical for Product 1 with Q = 104	69
Table IV.28 4 th Scenario of Numerical for Product 1 with Q = 104.....	70
Table IV.29 5 th Scenario of Numerical for Product 1 with Q = 104.....	71
Table IV.30 6 th Scenario of Numerical for Product 1 with Q = 104.....	72
Table IV.31 7 th Scenario of Numerical for Product 1 with Q = 104.....	73
Table IV.32 8 th Scenario of Numerical for Product 1 with Q = 104.....	74
Table IV.33 9 th Scenario of Numerical for Product 1 with Q = 104.....	75
Table IV.34 10 th Scenario of Numerical for Product 1 with Q = 104.....	76
Table IV.35 11 th Scenario of Numerical for Product 1 with Q = 104.....	77
Table IV.36 12 th Scenario of Numerical for Product 1 with Q = 104.....	78
Table IV.37 1 st Scenario of Numerical for Product 1 with Q = 126.....	79
Table IV.38 2 nd Scenario of Numerical for Product 1 with Q = 126	80
Table IV.39 3 rd Scenario of Numerical for Product 1 with Q = 126	81
Table IV.40 4 th Scenario of Numerical for Product 1 with Q = 126.....	82
Table IV.41 5 th Scenario of Numerical for Product 1 with Q = 126.....	83
Table IV.42 6 th Scenario of Numerical for Product 1 with Q = 126.....	84
Table IV.43 7 th Scenario of Numerical for Product 1 with Q = 126.....	85
Table IV.44 8 th Scenario of Numerical for Product 1 with Q = 126.....	86
Table IV.45 9 th Scenario of Numerical for Product 1 with Q = 126.....	87
Table IV.46 10 th Scenario of Numerical for Product 1 with Q = 126.....	88
Table IV.47 11 th Scenario of Numerical for Product 1 with Q = 126.....	89
Table IV.48 12 th Scenario of Numerical for Product 1 with Q = 126.....	90
Table IV.49 1 st Scenario of Numerical for Product 1 with Q = 200.....	91
Table IV.50 2 nd Scenario of Numerical for Product 1 with Q = 200	92
Table IV.51 3 rd Scenario of Numerical for Product 1 with Q = 200	93
Table IV.52 4 th Scenario of Numerical for Product 1 with Q = 200.....	94
Table IV.53 5 th Scenario of Numerical for Product 1 with Q = 200.....	95
Table IV.54 6 th Scenario of Numerical for Product 1 with Q = 200.....	96
Table IV.55 7 th Scenario of Numerical for Product 1 with Q = 200.....	97
Table IV.56 8 th Scenario of Numerical for Product 1 with Q = 200.....	98
Table IV.57 9 th Scenario of Numerical for Product 1 with Q = 200.....	99
Table IV.58 10 th Scenario of Numerical for Product 1 with Q = 200.....	100

Table IV.59 11 th Scenario of Numerical for Product 1 with Q = 200.....	101
Table IV.60 12 th Scenario of Numerical for Product 1 with Q = 200.....	102
Table IV.61 Product 1 Numeric Simulation Profit Comparison.....	103
Table IV.62 1 st Scenario of Numerical for Product 2 with Q = 215.....	104
Table IV.63 2 nd Scenario of Numerical for Product 2 with Q = 215.....	105
Table IV.64 3 rd Scenario of Numerical for Product 2 with Q = 215.....	106
Table IV.65 4 th Scenario of Numerical for Product 2 with Q = 215.....	107
Table IV.66 5 th Scenario of Numerical for Product 2 with Q = 215.....	108
Table IV.67 6 th Scenario of Numerical for Product 2 with Q = 215.....	109
Table IV.68 7 th Scenario of Numerical for Product 2 with Q = 215.....	110
Table IV.69 8 th Scenario of Numerical for Product 2 with Q = 215.....	111
Table IV.70 9 th Scenario of Numerical for Product 2 with Q = 215.....	112
Table IV.71 10 th Scenario of Numerical for Product 2 with Q = 215.....	113
Table IV.72 11 th Scenario of Numerical for Product 2 with Q = 215.....	114
Table IV.73 12 th Scenario of Numerical for Product 2 with Q = 215.....	115
Table IV.74 1 st Scenario of Numerical for Product 2 with Q = 228.....	116
Table IV.75 2 nd Scenario of Numerical for Product 2 with Q = 228.....	117
Table IV.76 3 rd Scenario of Numerical for Product 2 with Q = 228.....	118
Table IV.77 4 th Scenario of Numerical for Product 2 with Q = 228.....	119
Table IV.78 5 th Scenario of Numerical for Product 2 with Q = 228.....	120
Table IV.79 6 th Scenario of Numerical for Product 2 with Q = 228.....	121
Table IV.80 7 th Scenario of Numerical for Product 2 with Q = 228.....	122
Table IV.81 8 th Scenario of Numerical for Product 2 with Q = 228.....	123
Table IV.82 9 th Scenario of Numerical for Product 2 with Q = 228.....	124
Table IV.83 10 th Scenario of Numerical for Product 2 with Q = 228.....	125
Table IV.84 11 th Scenario of Numerical for Product 2 with Q = 228.....	126
Table IV.85 12 th Scenario of Numerical for Product 2 with Q = 228.....	127
Table IV.86 1 st Scenario of Numerical for Product 2 with Q = 250.....	128
Table IV.87 2 nd Scenario of Numerical for Product 2 with Q = 250.....	129
Table IV.88 3 rd Scenario of Numerical for Product 2 with Q = 250.....	130
Table IV.89 4 th Scenario of Numerical for Product 2 with Q = 250.....	131
Table IV.90 5 th Scenario of Numerical for Product 2 with Q = 250.....	132

Table IV.91 6 th Scenario of Numerical for Product 2 with Q = 250.....	133
Table IV.92 7 th Scenario of Numerical for Product 2 with Q = 250.....	134
Table IV.93 8 th Scenario of Numerical for Product 2 with Q = 250.....	135
Table IV.94 9 th Scenario of Numerical for Product 2 with Q = 250.....	136
Table IV.95 10 th Scenario of Numerical for Product 2 with Q = 250.....	137
Table IV.96 11 th Scenario of Numerical for Product 2 with Q = 250.....	138
Table IV.97 12 th Scenario of Numerical for Product 2 with Q = 250.....	139
Table IV.98 Product 2 Numeric Simulation Profit Comparison.....	140
Table IV.99 Newsvendor Model Design Results	141
Table IV.100 Numeric Design Result.....	142
Table IV.101 Improvement Verification.....	143
Table V.1 Object Validation.....	147
Table V.2 Comparison of Existing Condition with the Newsvendor Model of Product 1	148
Table V.3 Comparison of Existing Condition with the Newsvendor Model of Product 2	148
Table V.4 Comparison of Existing Condition with the Numeric of Product 1....	149
Table V.5 Comparison of Existing Condition with the Numeric of Product 2....	150