TASK 1: INFERENCE
Q2) 93% CI for Mean Age

The UNIVARIATE Procedure
Variable: Age

Moments			
N	44	**Sum Weights**	44
Mean	27.5681818	**Sum Observations**	1213
Std Deviation	3.95555381	**Variance**	15.6464059
Skewness	0.60154782	**Kurtosis**	0.21268323
Uncorrected SS	34113	**Corrected SS**	672.795455
Coeff Variation	14.3482578	**Std Error Mean**	0.59632217

Basic Statistical Measures			
Location		**Variability**	
Mean	27.56818	**Std Deviation**	3.95555
Median	27.50000	**Variance**	15.64641
Mode	24.00000	**Range**	17.00000
		Interquartile Range	6.00000

Basic Confidence Limits Assuming Normality			
Parameter	**Estimate**	**93% Confidence Limits**	
Mean	27.56818	26.46012	28.67625
Std Deviation	3.95555	3.31454	4.91995
Variance	15.64641	10.98618	24.20593

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	t	46.23035	**Pr > |t|**	<.0001
Sign	M	22	**Pr >= |M|**	<.0001
Signed Rank	S	495	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	39.0
99%	39.0
95%	34.0
90%	32.0
75% Q3	30.0
50% Median	27.5
25% Q1	24.0
10%	22.0
5%	22.0
1%	22.0
0% Min	22.0

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
22	35	32	42
22	33	34	26

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
22	23	34	31
22	22	35	37
22	7	39	39

TASK 1: INFERENCE
Q3) G_Played HT

The TTEST Procedure

Variable: G_played

N	Mean	Std Dev	Std Err	Minimum	Maximum
44	12.8636	4.4908	0.6770	1.0000	17.0000

Mean	95% CL Mean		Std Dev	95% CL Std Dev	
12.8636	11.7255	Infty	4.4908	3.7104	5.6899

DF	t Value	Pr > t
43	1.28	0.1045
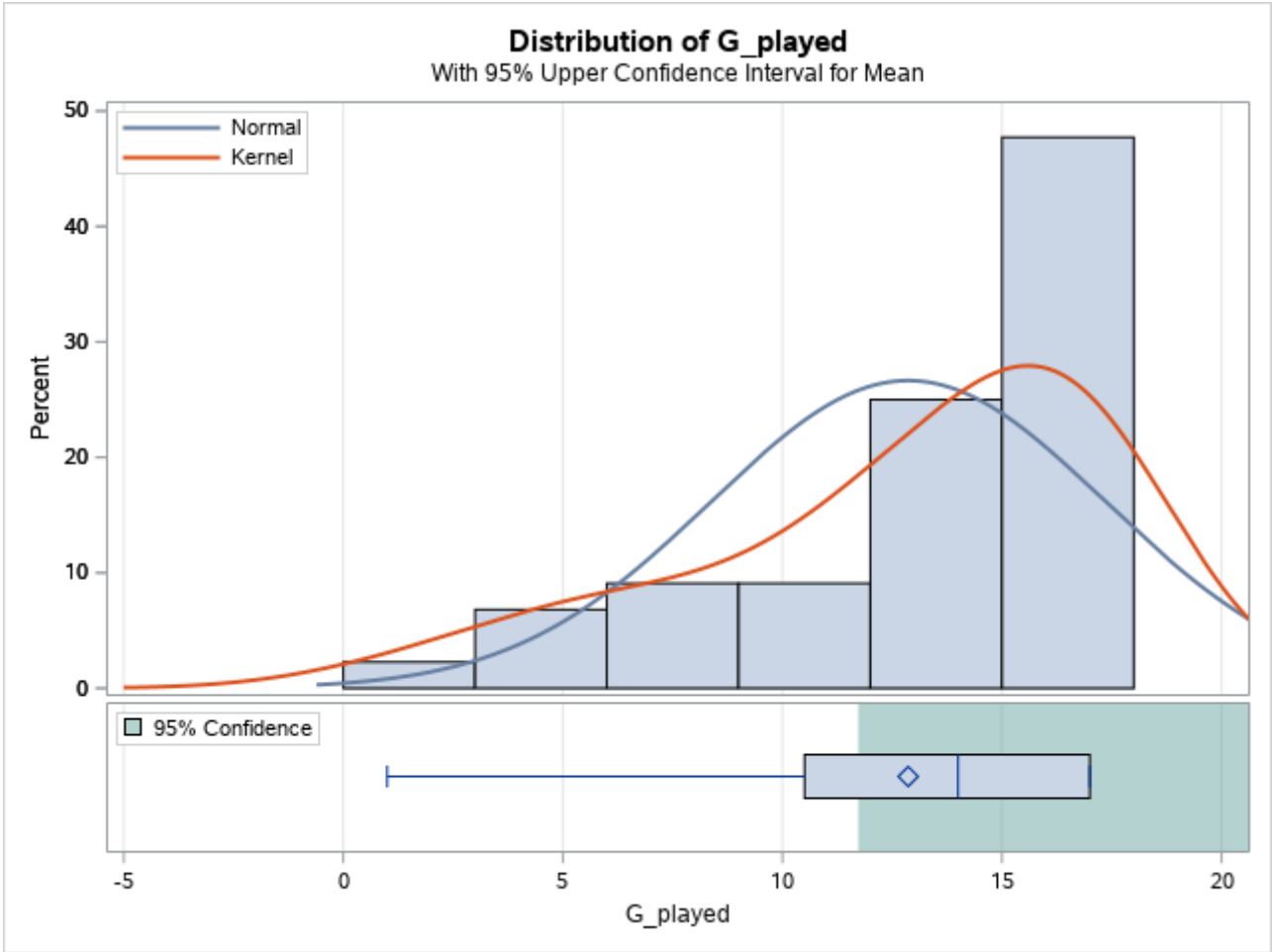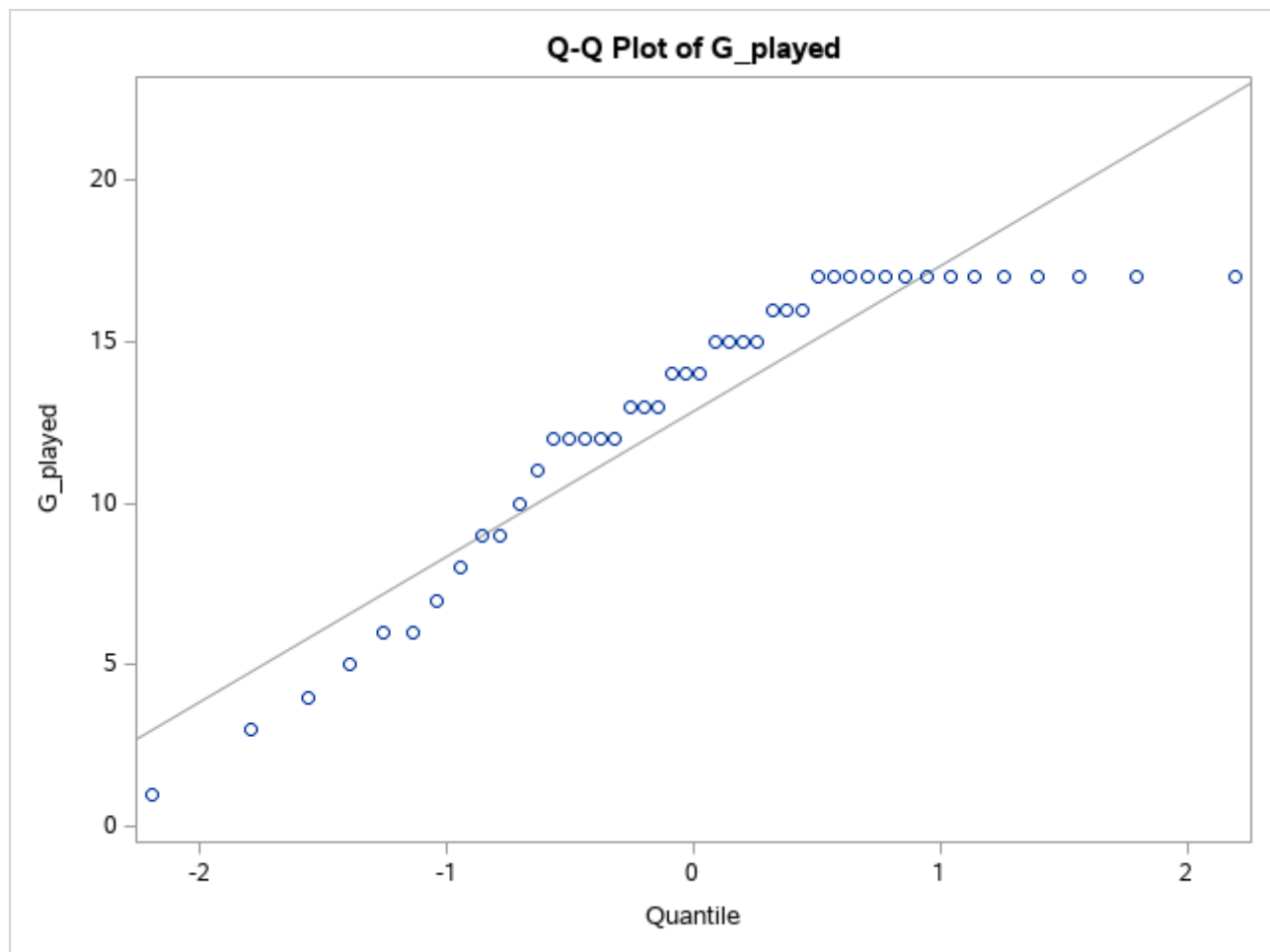
Distribution of G_played
With 95% Upper Confidence Interval for Mean

Q-Q Plot of G_played

TASK 2: MULTIPLE LINEAR REGRESSION
Q4) Code for Multiple Linear Regression Model

The REG Procedure
Model: MODEL1
Dependent Variable: G_started

Number of Observations Read	44
Number of Observations Used	44

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	399.62036	199.81018	6.87	0.0027
Error	41	1193.10691	29.10017		
Corrected Total	43	1592.72727			

Root MSE	5.39446	R-Square	0.2509
Dependent Mean	7.72727	Adj R-Sq	0.2144
Coeff Var	69.81062		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	1.81650	6.64215	0.27	0.7859
G_played	1	0.66142	0.18528	3.57	0.0009

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Age	1	-0.09422	0.21035	-0.45	0.6566

TASK 2: MULTIPLE LINEAR REGRESSION
Q4) Code for Multiple Linear Regression Model

The REG Procedure
Model: MODEL1
Dependent Variable: G_started

Residual by Regressors for G_started
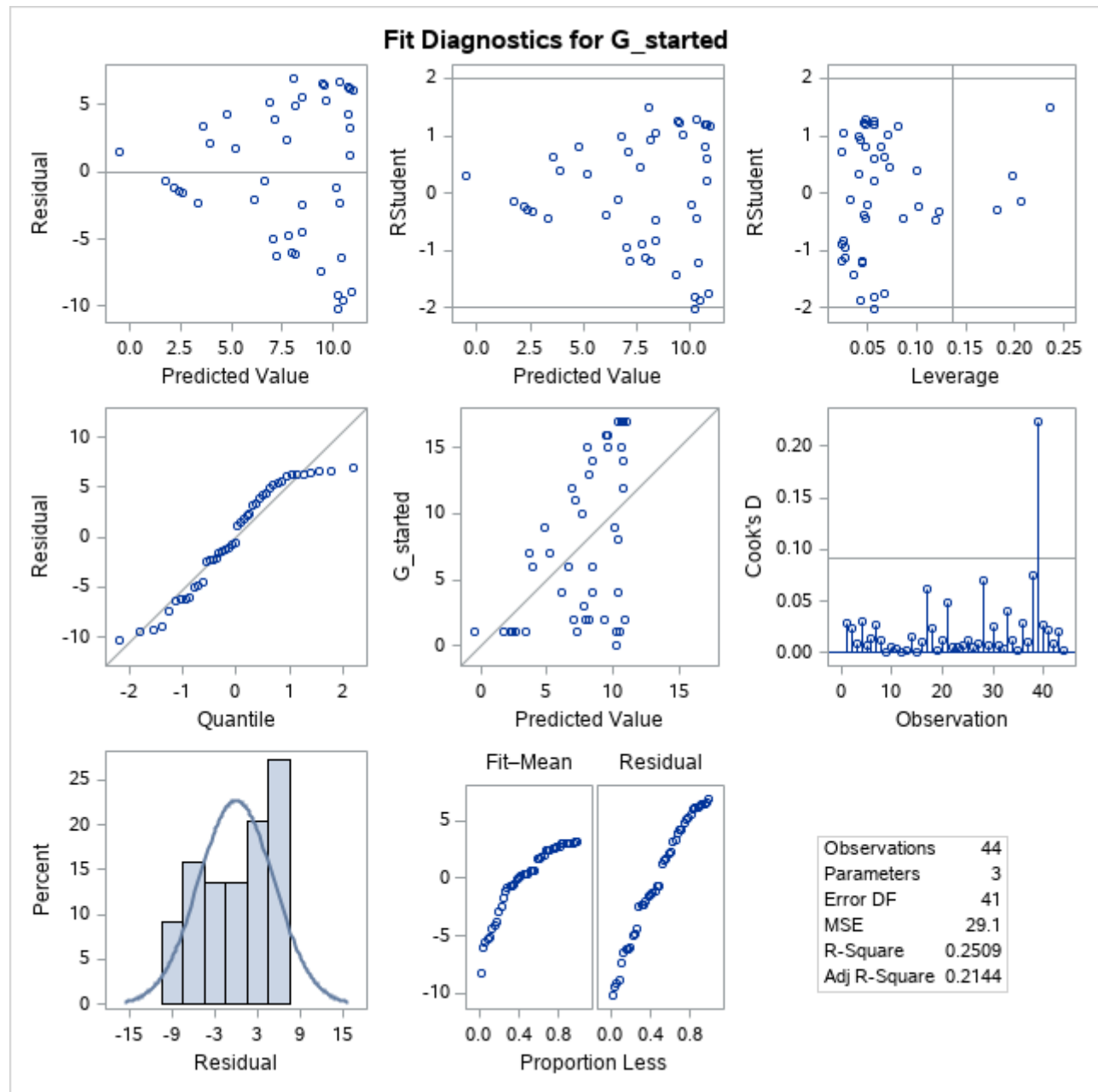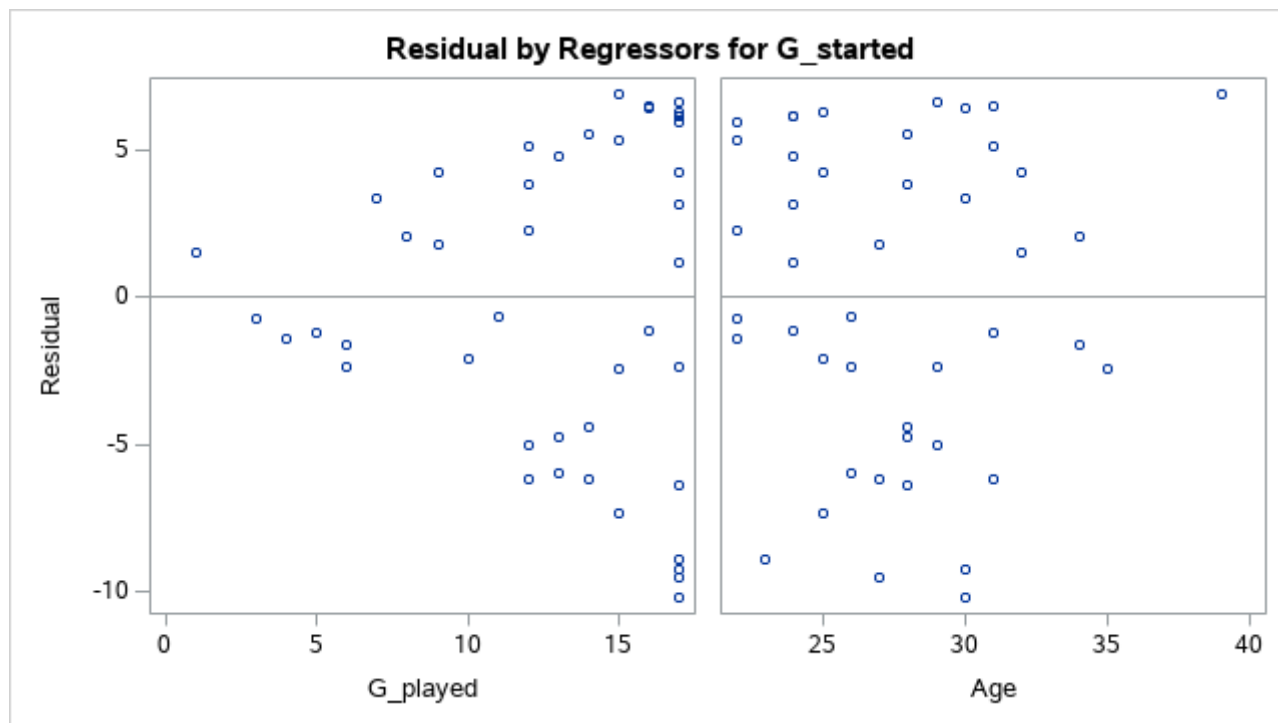
TASK 2: MULTIPLE LINEAR REGRESSION
Q7) Pearson and Spearman Correlation Matrix

The CORR Procedure

3 Variables:	G_played Age G_started

Simple Statistics						
Variable	**N**	**Mean**	**Std Dev**	**Median**	**Minimum**	**Maximum**
G_played	44	12.86364	4.49077	14.00000	1.00000	17.00000
Age	44	27.56818	3.95555	27.50000	22.00000	39.00000
G_started	44	7.72727	6.08606	6.50000	0	17.00000

Pearson Correlation Coefficients, N = 44 Prob > |r| under H0: Rho=0			
	G_played	**Age**	**G_started**
G_played	1.00000	-0.15002 0.3311	0.49723 0.0006
Age	-0.15002 0.3311	1.00000	-0.13445 0.3842
G_started	0.49723 0.0006	-0.13445 0.3842	1.00000

Spearman Correlation Coefficients, N = 44 Prob > |r| under H0: Rho=0			
	G_played	**Age**	**G_started**
G_played	1.00000	-0.21481 0.1614	0.46220 0.0016
Age	-0.21481 0.1614	1.00000	-0.18616 0.2263
G_started	0.46220 0.0016	-0.18616 0.2263	1.00000