Chart, histogram

Description automatically generatedChart, histogram

Description automatically generated

Chart, histogram

Description automatically generatedChart, histogram

Description automatically generated

Chart, histogram

Description automatically generatedChart, bar chart, histogram

Description automatically generated

1.62%

Chart, bar chart

Description automatically generated

Chart, bar chart

Description automatically generatedChart, bar chart

Description automatically generatedChart, bar chart

Description automatically generatedChart

Description automatically generatedChart, bar chart

Description automatically generatedChart

Description automatically generated

24

Chart, box and whisker chart

Description automatically generatedChart, box and whisker chart

Description automatically generatedChart, box and whisker chart

Description automatically generatedChart, box and whisker chart

Description automatically generatedChart, box and whisker chart

Description automatically generatedChart, box and whisker chart

Description automatically generatedChart, box and whisker chart

Description automatically generated

Chart, box and whisker chart

Description automatically generatedChart, box and whisker chart

Description automatically generated

Chart, box and whisker chart

Description automatically generatedChart, box and whisker chart

Description automatically generated

Chart, box and whisker chart

Description automatically generatedChart, box and whisker chart

Description automatically generated

Chart, box and whisker chart

Description automatically generatedChart, box and whisker chart

Description automatically generated

Chart, box and whisker chart

Description automatically generatedChart, box and whisker chart

Description automatically generated

Chart, box and whisker chart

Description automatically generatedChart, box and whisker chart

Description automatically generated

Chart, box and whisker chart

Description automatically generatedChart, box and whisker chart

Description automatically generated

#### Other Plots ####

# Age

ggplot(dt) + aes(x=Age) + geom\_area(stat="bin", fill="lightblue", bins = 30) + labs(x = "Age", y = "Count", title = "Distribution of Age, Histogram")

ggplot(dt) + aes(x=Age) + geom\_boxplot(width=.2, fill="pink") + labs(x = "Age", title = "Distribution of Age, Boxplot")

summary(dt$Age)

# Height

ggplot(dt) + aes(x=Height) + geom\_area(stat="bin", fill="lightblue", bins = 30) + labs(x = "Height", y = "Count", title = "Distribution of Height, Histogram")

ggplot(dt) + aes(x=Height) + geom\_boxplot(width=.2, fill="pink") + labs(x = "Height", title = "Distribution of Height, Boxplot")

summary(dt$Height)

# Weight

ggplot(dt) + aes(x=Weight) + geom\_area(stat="bin", fill="lightblue", bins = 30) + labs(x = "Weight", y = "Count", title = "Distribution of Weight, Histogram")

ggplot(dt) + aes(x=Weight) + geom\_boxplot(width=.2, fill="pink") + labs(x = "Weight", title = "Distribution of Weight, Boxplot")

summary(dt$Weight)

( sum(dt$Weight > (IQR(dt$Weight) \* 1.5) + quantile(dt$Weight)[4]) + sum(dt$Weight < quantile(dt$Weight)[2] - (IQR(dt$Weight) \* 1.5)) ) / nrow(dt) \* 100

~~ggplot(dtViz, aes(x = Diabetes, fill = Diabetes)) +~~

~~geom\_bar() +~~

~~scale\_fill\_manual(values = c("Absent" = "lightblue", "Present" = "pink")) +~~

~~labs(title = "Incidence of Diabetes")~~

~~ggplot(dtViz, aes(x = HighBloodPressure, fill = HighBloodPressure)) +~~

~~geom\_bar() +~~

~~scale\_fill\_manual(values = c("Absent" = "lightblue", "Present" = "pink")) +~~

~~labs(title = "Incidence of High Blood Pressure")~~

~~ggplot(dtViz, aes(x = Transplant, fill = Transplant)) +~~

~~geom\_bar() +~~

~~scale\_fill\_manual(values = c("No" = "lightblue", "Yes" = "pink")) +~~

~~labs(title = "Incidence of Transplant")~~

~~ggplot(dtViz, aes(x = ChronicDisease, fill = ChronicDisease)) +~~

~~geom\_bar() +~~

~~scale\_fill\_manual(values = c("No" = "lightblue", "Yes" = "pink")) +~~

~~labs(title = "Incidence of Chronic Disease")~~

~~ggplot(dtViz, aes(x = Allergy, fill = Allergy)) +~~

~~geom\_bar() +~~

~~scale\_fill\_manual(values = c("No" = "lightblue", "Yes" = "pink")) +~~

~~labs(title = "Incidence of Allergy")~~

~~ggplot(dtViz, aes(x = CancerInFamily, fill = CancerInFamily)) +~~

~~geom\_bar() +~~

~~scale\_fill\_manual(values = c("No" = "lightblue", "Yes" = "pink")) +~~

~~labs(title = "Incidence of Cancer In Family")~~

~~ggplot(dtViz, aes(x = Gender, fill = Gender)) +~~

~~geom\_bar() +~~

~~scale\_fill\_manual(values = c("Female" = "pink", "Male" = "lightblue")) +~~

~~labs(title = "Distribution of Gender")~~

~~# Age~~

~~ggplot(dtViz, mapping = aes(x = Age, y = Diabetes, fill=Diabetes)) +~~

~~geom\_boxplot(show.legend = TRUE) +~~

~~labs(title = "Age vs Diabetes", y="Diabetes")~~

~~ggplot(dtViz, mapping = aes(x = Age, y = HighBloodPressure, fill=HighBloodPressure)) +~~

~~geom\_boxplot(show.legend = TRUE) +~~

~~labs(title = "Age vs High Blood Pressure", y="High Blood Pressure")~~

~~ggplot(dtViz, mapping = aes(x = Age, y = Transplant, fill=Transplant)) +~~

~~geom\_boxplot(show.legend = TRUE) +~~

~~labs(title = "Age vs Transplant", y="Transplant")~~

~~ggplot(dtViz, mapping = aes(x = Age, y = ChronicDisease, fill=ChronicDisease)) +~~

~~geom\_boxplot(show.legend = TRUE) +~~

~~labs(title = "Age vs Chronic Disease", y="Chronic Disease")~~

~~ggplot(dtViz, mapping = aes(x = Age, y = Allergy, fill=Allergy)) +~~

~~geom\_boxplot(show.legend = TRUE) +~~

~~labs(title = "Age vs Allergy", y="Allergy")~~

~~ggplot(dtViz, mapping = aes(x = Age, y = CancerInFamily, fill=CancerInFamily)) +~~

~~geom\_boxplot(show.legend = TRUE) +~~

~~labs(title = "Age vs Cancer In Family", y="Cancer In Family")~~

~~ggplot(dtViz, mapping = aes(x = Age, y = Gender, fill=Gender)) +~~

~~geom\_boxplot(show.legend = TRUE) +~~

~~labs(title = "Age vs Gender", y="Gender")~~

# Weight

ggplot(dtViz, mapping = aes(x = Weight, y = Diabetes, fill=Diabetes)) +

geom\_boxplot(show.legend = TRUE) +

labs(title = "Weight vs Diabetes", y="Diabetes")

ggplot(dtViz, mapping = aes(x = Weight, y = HighBloodPressure, fill=HighBloodPressure)) +

geom\_boxplot(show.legend = TRUE) +

labs(title = "Weight vs High Blood Pressure", y="High Blood Pressure")

ggplot(dtViz, mapping = aes(x = Weight, y = Transplant, fill=Transplant)) +

geom\_boxplot(show.legend = TRUE) +

labs(title = "Weight vs Transplant", y="Transplant")

ggplot(dtViz, mapping = aes(x = Weight, y = ChronicDisease, fill=ChronicDisease)) +

geom\_boxplot(show.legend = TRUE) +

labs(title = "Weight vs Chronic Disease", y="Chronic Disease")

ggplot(dtViz, mapping = aes(x = Weight, y = Allergy, fill=Allergy)) +

geom\_boxplot(show.legend = TRUE) +

labs(title = "Weight vs Allergy", y="Allergy")

ggplot(dtViz, mapping = aes(x = Weight, y = CancerInFamily, fill=CancerInFamily)) +

geom\_boxplot(show.legend = TRUE) +

labs(title = "Weight vs Cancer In Family", y="Cancer In Family")

ggplot(dtViz, mapping = aes(x = Weight, y = Gender, fill=Gender)) +

geom\_boxplot(show.legend = TRUE) +

labs(title = "Weight vs Gender", y="Gender")

# Height

ggplot(dtViz, mapping = aes(x = Height, y = Diabetes, fill=Diabetes)) +

geom\_boxplot(show.legend = TRUE) +

labs(title = "Height vs Diabetes", y="Diabetes")

ggplot(dtViz, mapping = aes(x = Height, y = HighBloodPressure, fill=HighBloodPressure)) +

geom\_boxplot(show.legend = TRUE) +

labs(title = "Height vs High Blood Pressure", y="High Blood Pressure")

ggplot(dtViz, mapping = aes(x = Height, y = Transplant, fill=Transplant)) +

geom\_boxplot(show.legend = TRUE) +

labs(title = "Height vs Transplant", y="Transplant")

ggplot(dtViz, mapping = aes(x = Height, y = ChronicDisease, fill=ChronicDisease)) +

geom\_boxplot(show.legend = TRUE) +

labs(title = "Height vs Chronic Disease", y="Chronic Disease")

ggplot(dtViz, mapping = aes(x = Height, y = Allergy, fill=Allergy)) +

geom\_boxplot(show.legend = TRUE) +

labs(title = "Height vs Allergy", y="Allergy")

ggplot(dtViz, mapping = aes(x = Height, y = CancerInFamily, fill=CancerInFamily)) +

geom\_boxplot(show.legend = TRUE) +

labs(title = "Height vs Cancer In Family", y="Cancer In Family")

ggplot(dtViz, mapping = aes(x = Height, y = Gender, fill=Gender)) +

geom\_boxplot(show.legend = TRUE) +

labs(title = "Height vs Gender", y="Gender")