KİTLE PARAMETRESİ μ İÇİN HİPOTEZ TESTLERİ VE $\%(1-\alpha)\times 100$ GÜVEN ARALIKLARI

Yokluk Hipotezi: H_0	**Varsayım**	**Test İstatistiği**	**Alternatif Hipotez:** H_1	**Kritik (Red) Bölge**	$\%(1-\alpha)\times 100$ **Güven Aralıkları**
$\mu=\mu_0$	σ biliniyor	$Z_t=\dfrac{\bar{x}-\mu_0}{\sigma/\sqrt{n}}$	$\mu<\mu_0$	$Z_t<-z^*_\alpha$	$\bar{x}\ \pm\ z^*_{1-\frac{\alpha}{2}}\ \dfrac{\sigma}{\sqrt{n}}$
			$\mu>\mu_0$	$Z_t>z^*_\alpha$	
			$\mu\neq\mu_0$	$\lvert Z_t\rvert>z^*_{\alpha/2}$	
$\mu=\mu_0$	σ bilinmiyor	$T_t=\dfrac{\bar{x}-\mu_0}{s/\sqrt{n}};\ sd=n-1$	$\mu<\mu_0$	$T_t<-t^*_\alpha$	$\bar{x}\ \pm\ t^*_{\frac{\alpha}{2}}\ \dfrac{s}{\sqrt{n}}$
			$\mu>\mu_0$	$T_t>t^*_\alpha$	
			$\mu\neq\mu_0$	$\lvert T\rvert_t>t^*_{\alpha/2}$	
$\mu_1-\mu_2=d_0$	σ_1 ve σ_2 biliniyor	$Z_t=\dfrac{(\bar{x}_1-\bar{x}_2)-d_0}{\sqrt{(\sigma_1^2/n_1)+(\sigma_2^2/n_2)}}$	$\mu_1-\mu_2<d_0$	$Z_t<-z^*_\alpha$	$(\bar{x}_1-\bar{x}_2)\ \pm\ z^*_{1-\frac{\alpha}{2}}\sqrt{\left(\dfrac{\sigma_1^2}{n_1}\right)+\left(\dfrac{\sigma_2^2}{n_2}\right)}$
			$\mu_1-\mu_2>d_0$	$Z_t>z^*_\alpha$	
			$\mu_1-\mu_2\neq d_0$	$\lvert Z_t\rvert>z^*_{\alpha/2}$	
$\mu_1-\mu_2=d_0$	σ_1 ve σ_2 bilinmiyor $\sigma_1=\sigma_2$	$T_t=\dfrac{(\bar{x}_1-\bar{x}_2)-d_0}{s_p\sqrt{(1/n_1)+(1/n_2)}};$ $sd=n_1+n_2-2$ $s_p^2=\dfrac{(n_1-1)s_1^2+(n_2-1)s_2^2}{n_1+n_2-2}$	$\mu_1-\mu_2<d_0$	$T_t<-t^*_\alpha$	$(\bar{x}_1-\bar{x}_2)\ \pm\ t^*_{\frac{\alpha}{2}}\ s_p\sqrt{\dfrac{1}{n_1}+\dfrac{1}{n_2}}$
			$\mu_1-\mu_2>d_0$	$T_t>t^*_\alpha$	
			$\mu_1-\mu_2\neq d_0$	$\lvert T\rvert_t>t^*_{\alpha/2}$	
$\mu_1-\mu_2=d_0$	σ_1 ve σ_2 bilinmiyor $\sigma_1\neq\sigma_2$	$T_t=\dfrac{(\bar{x}_1-\bar{x}_2)-d_0}{\sqrt{(s_1^2/n_1)+(s_2^2/n_2)}}$ $sd=\dfrac{\left\{(s_1^2/n_1)+(s_2^2/n_2)\right\}^2}{\dfrac{(s_1^2/n_1)^2}{n_1-1}+\dfrac{(s_2^2/n_2)^2}{n_2-1}}$	$\mu_1-\mu_2<d_0$	$T_t<-t^*_\alpha$	$(\bar{x}_1-\bar{x}_2)\ \pm\ t^*_{\frac{\alpha}{2}}\sqrt{\left(\dfrac{s_1^2}{n_1}\right)+\left(\dfrac{s_2^2}{n_2}\right)}$
			$\mu_1-\mu_2>d_0$	$T_t>t^*_\alpha$	
			$\mu_1-\mu_2\neq d_0$	$\lvert T\rvert_t>t^*_{\alpha/2}$	
$\mu_D=d_0$ $\mu_1-\mu_2=\mu_D$	Varyans bilinmiyor (Eşleştirilmiş veri)	$T_t=\dfrac{\bar{d}-d_0}{s_d/\sqrt{n}};\ sd=n-1$	$\mu_D<d_0$	$T_t<-t^*_\alpha$	$\bar{d}\ \pm\ t^*_{\frac{\alpha}{2}}\ \dfrac{s_d}{\sqrt{n}}$
			$\mu_D>d_0$	$T_t>t^*_\alpha$	
			$\mu_D\neq d_0$	$\lvert T\rvert_t>t^*_{\alpha/2}$	