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The present paper deals with some properties of Generalized Mittag-Leffler type function and also its applications in Statistics. The generalized Mittag-Leffler type function  $E_{\alpha,\beta}^{\gamma,q}(z)$  is defined by Shukla and Prajapati[J. Math. Anal. Appl. No 336 (2007), 797-811] as,

$$E_{\alpha,\beta}^{\gamma,q}(z) = \sum_{n=0}^{\infty} \frac{(\gamma)_{qn}}{\Gamma(\alpha n + \beta)} \cdot \frac{z^n}{n!}$$

where,  $\alpha, \beta, \gamma \in \mathbf{C}$ ,  $\Re(\alpha) > 0$ ,  $\Re(\beta) > 0$ ,  $q \in (0, 1) \cup \mathbf{N}$  (Received February 09, 2014)