The problem of asymptotics for the number of number field extensions $L/K$ with a given degree $n$ has a long history: a folk conjecture holds that the number $N_n(X)$ of such number fields with relative discriminant less than $X$ is asymptotic to $c_nX$ as $X$ grows and $n$ is fixed. In a 2006 paper of Ellenberg and Venkatesh, the authors improved the best known general result, due to Schmidt: they proved that $N_n(X) \ll X^{\exp(C\sqrt{\log n})}$. I will discuss generalizations, employing some of their techniques, that improve the best known asymptotic bounds for the number $N_{n,G}(X)$ of relative extensions with Galois closure isomorphic to $G$. (Received September 17, 2013)