Encontrar a soma da série $\sum_{n=0}^{\infty}\left(\frac{2}{5^n}-\frac{1}{2^n}\right)$.

$$\sum_{n=0}^{\infty}\left(\frac{2}{5^n}-\frac{1}{2^n}\right)=\sum_{n=0}^{\infty}\frac{2}{5^n}-\sum_{n=0}^{\infty}\frac{1}{2^n}=\frac{2}{1-\frac{1}{5}}-\frac{1}{1-\frac{1}{2}}=\frac{5}{2}-2=\boxed{\frac{1}{2}}$$

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