We provide an inequality for absolute row and column sums of the powers of a complex matrix. This inequality generalizes several other inequalities. As a result, it provides an inequality that compares the absolute entry sum of the matrix powers to the sum of the powers of the absolute row/column sums. This provides a proof for a conjecture of London, which states that for all complex matrices $A$ such that $|A|$ is symmetric, we have $\sum(|A|^p) \leq \sum_{i=1}^n r_i(|A|)^p$. 

**Stichworte:** inequalities, matrix powers, absolute values