$$\begin{array}{c|c}
\mathbf{C}_1 & \xrightarrow{f_1} & \mathbf{D}_1 \\
\hline
F \downarrow \mathbf{Cat} & \mathbf{Cat} \uparrow G \\
\mathbf{C}_2 & \xrightarrow{f_2} & \mathbf{D}_2
\end{array}$$