$$F \mid \text{Cat} \quad \text{Cat} \mid G \qquad C_1 \xrightarrow{f_1} D_1$$

$$C_2 \xrightarrow{\text{Cat}} D_2 \qquad F \not\ni H \mid \text{Cat} \quad \text{Cat} \mid K \not\ni G$$

$$H \mid \text{Cat} \quad \text{Cat} \mid K \qquad C_3 \xrightarrow{f_2} D_3$$

Cat