$$F \left| \begin{array}{ccc} \operatorname{Cat} & \operatorname{Cat} & \operatorname{C}_{1} & \xrightarrow{f_{1}} & \operatorname{D}_{1} \\ \operatorname{C}_{2} & \xrightarrow{\operatorname{Cat}} & \operatorname{D}_{2} & F \ ; H \left| \begin{array}{ccc} \operatorname{Cat} & \operatorname{Cat} & \operatorname{K} \ ; G \end{array} \right| \\ H \left| \begin{array}{cccc} \operatorname{Cat} & \operatorname{Cat} & \operatorname{K} \end{array} \right| & \operatorname{C}_{3} & \xrightarrow{\operatorname{Cat}} & \operatorname{D}_{3} \end{array} \right|$$

Cat