1) $\Pi_{S\ name}(\sigma_{color=red}(Suppliers \bowtie [Catalog \bowtie Parts]))$

2) $\Pi_{sid}(Catalog \bowtie [\sigma_{color=red\ ||\ color=green}(Parts)])$

3) $\Pi_{sid}[Catalog \bowtie \sigma_{color=red}(Parts)] \cup \Pi_{sid}[\sigma_{address=211\ Packer\ Street}(Suppliers)]$

4) $\Pi_{sid}[Catalog \bowtie \sigma_{color=red}(Parts)] \cap \Pi_{sid}[\sigma_{color=green}(Parts) \bowtie Catalog]$

5) $\Pi_{sid}[Catalog \div \Pi_{pid}(Parts)]$

6) $\Pi_{sid}[Catalog \div \Pi_{pid}(\sigma_{color=red}(Parts))]$

7) $\Pi_{sid}[Catalog \div \Pi_{pid}(\sigma_{color=red\ ||\ color=green}(Parts))]$

8) $\Pi_{sid}(Catalog \div \Pi_{pid}[\sigma_{color=red}(Parts)]) \cup \Pi_{sid}(Catalog \div \Pi_{pid}[\sigma_{color=green}(Parts)])$

9) $\Pi_{sid,\ sid1}(\sigma_{pid=pid1\&\&cost>cost1}[Catalog \times (\rho_{sid,pid,cost \rightarrow sid1,pid1,cost1}[Catalog])])$

10) $\Pi_{pid}(\sigma_{sid \neq sid1\&\&pid=pid1}[Catalog \times (\rho_{sid,pid,cost \rightarrow sid1,pid1,cost1}[Catalog])])$