ex2

Find the names of Suppliers who supply some red part and cost less than 100.

$$\prod sname(\prod_{sid}((\sigma_{color=red}Parts)) \bowtie (\sigma_{cost<100}Catalog)) \bowtie Suppliers)$$

Find the names of Suppliers supplying some red part and cost less than 100 and a Supplier with same name supplying some green part for less than 100.

$$(\prod_{sname}((\sigma_{color=red}Parts) \bowtie \sigma_{cost<100}Catalog)) \bowtie Suppliers) \cap (\prod_{sname}((\sigma_{color=green}Parts) \bowtie (\sigma_{cost<100}Catalog)) \bowtie Suppliers)$$

Find the sids of Suppliers supplying some red part and cost less than 100 and a Supplier with same sid supplying some green part and cost less than 100 .

$$(\prod_{sid}((\sigma_{color=red}Parts) \bowtie (\sigma_{cost<100}Catalog)) \bowtie Suppliers) \cap (\prod sid((\sigma_{color=green}Parts) \bowtie (\sigma_{cost<100}Catalog) \bowtie Supliers))$$

Find the names of Suppliers supplying some red part and cost less than 100 and some green part and cost less than 100 .

$$\prod_{sname}((\prod_{sid,name}((\sigma_{color=red}Parts) \bowtie (\sigma_{cost<100}Catalog)) \bowtie Suppliers) \cap (\prod_{sid,name}((\sigma_{color=green}) \bowtie (\sigma_{cost<100}Catalog) \bowtie Suppliers)))$$