

Task: state what the following queries compute

- 1) $\Pi_{sname} (\Pi_{sid} \sigma_{color=redParts} \bowtie \sigma_{cost < 100} Catalog \bowtie Suppliers)$
Find the names of suppliers that supply red part with catalog cost less than 100
- 2) $(\Pi_{sname} \sigma_{color=redParts} \bowtie \sigma_{cost < 100} Catalog \bowtie Suppliers) \cap (\Pi_{sname} ((\sigma_{color=greenParts}) \bowtie (\sigma_{cost < 100} Catalog) \bowtie Suppliers))$
Find the unique names of suppliers that supply red parts and green parts with Catalog cost less than 100
- 3) $(\Pi_{sid} \sigma_{color=redParts} \bowtie \sigma_{cost < 100} Catalog \bowtie Suppliers) \cap (\Pi_{sid} \sigma_{color=greenParts} \bowtie \sigma_{cost < 100} Catalog \bowtie Suppliers)$
Find sids of suppliers who supply that supply red parts and green parts with Catalog cost less than 100
- 4) $\Pi_{sname} (\Pi_{sid, name} \sigma_{color=redParts} \bowtie \sigma_{cost < 100} Catalog \bowtie Suppliers \cap (\Pi_{sid, name} (\sigma_{color=greenParts} \bowtie \sigma_{cost < 100} Catalog \bowtie Suppliers)))$
Find all names of suppliers that supply red parts and green parts with Catalog cost less than 100