Dzhemilya Gizutdinova Lab 4, Task 2

- 1. \sqcap sname (\sqcap sid σ color = red Parts $\bowtie \sigma$ cost < 100 Catalog \bowtie Suppliers)
 - First query computes names (of one <u>and</u> several suppliers) of suppliers who sell red parts with cost which is less than \$ 100.
- 2. (\square sname σ color = red Parts $\bowtie \sigma$ cost < 100 Catalog \bowtie Suppliers)) \cap (\square sname ((σ color = green Parts) \bowtie (σ cost < 100 Catalog) \bowtie Suppliers))
 - Second query computes names (of one and several suppliers) of suppliers who sell both some red parts & some green parts with cost which is less than \$ 100.
- 3. ($\square sid \ \sigma \ color = \ red \ Parts \bowtie \ \sigma \ cost < 100 \ Catalog \bowtie Suppliers) \cap ($ $\square sid \ (\ \sigma \ color = \ greenParts) \bowtie (\ \sigma \ cost < 100 \ Catalog \bowtie Suppliers))$
 - Third query computes SID (of one supplier) who sell both some red and some green parts with cost which is less than \$ 100.
- 4. \square sname((\square sid, sname((σ color = red Parts) \bowtie (σ cost < 100 Catalog) \bowtie Suppliers)) \cap (\square sid, sname((σ color = green Parts) \bowtie (σ cost < 100 Catalog) \bowtie Suppliers)))
 - Fourth query computes names (of one supplier) of suppliers who sell both some red and some green parts with cost which is less than \$ 100.