```
Exercise 1 \prod_{Sname}(\sigma_{color="red"}(parts) \bowtie Suppliers) (\prod_{sid}(\prod_{pid}(\sigma_{color='red'}(Parts)) \bowtie Catalog)) \prod_{sid}(\sigma_{color='red'}(Parts) \bowtie Catalog) \cup \prod_{sid}(\sigma_{address='221PackerStreet'}(Suppliers)) \prod_{sid}((\prod_{pid}\sigma_{color='red'}(Parts)) \bowtie Catalog) \cup \prod_{sid}((\prod_{p}id\sigma_{color='green'}(Parts)) \bowtie Catalog) \prod_{sid,pid}(Catalog) \prod_{pid}(Catalog) \prod_{pid}(Cata
```

Exercise 2 TASK 2

- 1. Find the names of suppliers who supply any red parts cheaper than 100 dollars
- 2. Find the names of suppliers who supply any red parts, and any green parts, such that both green and red parts are cheaper than 100 dollars
- 3. Find the sids of suppliers that supply red parts and green parts, such that both red parts and green parts are cheaper than 100 dollars.
- 4. Find the names of suppliers that supply any red parts and any green parts, such that both red parts and green parts are cheaper than 100 dollars