Task 2)
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1) $\Pi_{p\_name}(\sigma_{s\_name=\text{"Golden Bolts"}}(\text{PART} \bowtie_{p\_partkey = ps\_partkey} (\text{PART\_SUPPLIER} \bowtie_{ps\_suppkey = s\_suppkey} \text{SUPPLIER})))$

2) $\sigma_{p\_name\ !=\ s\_name} (\Pi_{p\_name,s\_name}(\text{PART} \times \text{SUPPLIER}))$

3) $\Pi_{P\_name} (\Pi_{p\_partkey}(\text{PART}) - \Pi_{ps\_partkey}(\text{PART\_SUPPLIER}))$