

## Assignment 1 Task 2

(1) Find the names of parts (P\_NAME) shipped by a supplier Golden Bolts (S\_NAME).

$\pi p\_name ( \sigma s\_name = \text{"Golden Bolts"} ( PART \bowtie p\_partkey = ps\_partkey PART\text{-}SHIPPED\text{-}BY \bowtie ps\_suppkey = s\_suppkey SUPPLIER) )$

(2) Find the names of parts and the names of suppliers. If a supplier has the same name as a name of part do not list such name many times.

$\pi (PART p\_name \cup s\_name SUPPLIER)$

(3) Find the names of parts (P\_NAME) not shipped by any supplier.

$\pi p\_name (PART) - \pi p\_name (PART\text{-}SHIPPED\text{-}BY \bowtie ps\_partkey = p\_partkey PART)$