

Task 2)

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1) $\Pi_{p_name}(\sigma_{s_name="Golden Bolts"}(PART \bowtie_{p_partkey = ps_partkey} (PART_SUPPLIER \bowtie_{ps_suppkey = s_suppkey} SUPPLIER)))$

2) $\Pi_{p_name}(PART) \cup \Pi_{s_name}(SUPPLIER)$

3) $\Pi_{p_name}(PART) - \Pi_{p_name}(PARTSUPP \bowtie_{ps_partkey = p_partkey} PART)$