```
1. \pi_{ean,descr}(\sigma_{name="Barras\ Energ\'eticas" \land instant > "2021/12/31" \land units > 10} \ (has \bowtie ReplenishmentEvent)
2. \pi_{serial\_number}(\sigma_{ean} = "9002490100070"(planogram \bowtie shelve))
3. G_{count()}(\sigma_{super\_name="Sopas Take-Away"}(hasOther))
4. T \rightarrow \left( ean, descr G_{sum(units) \rightarrow tot\_units}(ReplenishmentEvent) \right)
    result \leftarrow \pi_{ean,descr} \left( T \bowtie G_{max(tot\_units)}(T) \right)
SQL:
1. SELECT ean, descr
    FROM has NATURAL JOIN ReplenishmentEvent
    WHERE name='Barras Energéticas' AND instant > '2021/12/31' AND units > 10;
2. SELECT serial_number
    FROM planogram NATURAL JOIN shelve
    WHERE ean='9002490100070';
3.
        a.
            SELECT COUNT (*)
            FROM hasOther
            WHERE super_name = "Sopas Take-Away"
        b.
            SELECT *
             FROM (SELECT COUNT(super_cat)
            FROM hasOther)
            WHERE super_cat = "Sopas Take-Away"
4.
    SELECT ean, descr
    FROM (
     SELECT ean, descr, (SUM(units) AS tot units)
     FROM ReplenishmentEvent
     AS T
     NATURAL JOIN (
      SELECT MAX(tot_units)
      FROM T)
    )
```

```
    T → ( ean,descr G<sub>sum(units)→tot_units</sub> (ReplenishmentEvent))
    result ← π<sub>ean,descr</sub> (T ⋈ G<sub>max(tot_units)</sub> (T))
    SELECT ean, descr
    FROM (
    SELECT ean, descr, (SUM(units) AS tot_units)
    FROM ReplenishmentEvent
    AS T
    NATURAL JOIN (
    SELECT MAX(tot_units)
    FROM T)
```