

SQL skills: goods by storages

Data Output			Messages		Notifications							
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	<div><div>good_id</div><div>integer</div><div></div></div>	<div><div>article</div><div>character</div><div></div></div>	<div><div>supplier_article</div><div>character</div><div></div></div>	<div><div>good_name_en</div><div>character</div><div></div></div>	<div><div>category_id</div><div>integer</div><div></div></div>	<div><div>category_name</div><div>character</div><div></div></div>	<div><div>point_id</div><div>integer</div><div></div></div>	<div><div>point_name_en</div><div>character</div><div></div></div>	<div><div>in_qnt</div><div>real</div><div></div></div>	<div><div>out_qnt</div><div>real</div><div></div></div>	<div><div>balance</div><div>real</div><div></div></div>	
1	3	1058 ...	12970 ...	Ceylon OP Blend "Adam...	1	Red Tea ...	1	Tea House ...	3200	300	2900	
2	2	1057 ...	11113 ...	Assam TGFOP1 Keyhun...	1	Red Tea ...	1	Tea House ...	2000	50	1950	
3	3	1058 ...	12970 ...	Ceylon OP Blend "Adam...	1	Red Tea ...	2	Akacia Storage ...	500	[null]	500	
4	1	1051 ...	10999 ...	Darjeeling FTGFOP-1 To...	1	Red Tea ...	1	Tea House ...	3000	100	2900	

```
-- actual amount of goods on the storages according to supplies, sales and inventories
SELECT
```

```
    a.good_id,
    g.article,
    g.supplier_article,
    g.good_name_en,
    g.category_id,
    ct.category_name,
    a.point_id,
    p.point_name_en,
    a.in_qnt,
    a.out_qnt,
    a.in_qnt - coalesce(a.out_qnt, 0) AS balance
```

```
FROM (
    SELECT * FROM (
        -- goods without inventory
        WITH i AS (
            SELECT DISTINCT good_id FROM r_inventory),
        -- goods in
        g_in AS (
            SELECT
                good_id,
                s.point_id,
                SUM(fact_qnt) AS in_qnt
            FROM r_goods_supplies
            JOIN r_supplies s USING (supply_id)
            GROUP BY good_id, point_id),
        -- goods out
        g_out AS (
            SELECT
                good_id,
                o.point_id,
                SUM(good_qnt) AS out_qnt
            FROM r_goods_orders
            JOIN r_orders o USING (order_id)
            GROUP BY good_id, point_id)
        SELECT
```

```

        good_id,
        g_in.point_id,
        g_in.in_qnt AS in_qnt,
        g_out.out_qnt AS out_qnt
FROM goods
    LEFT JOIN i USING (good_id)
    JOIN g_in USING(good_id)
    LEFT JOIN g_out USING(good_id, point_id)
WHERE i.good_id IS null) AS no_i
UNION ALL
SELECT * FROM(
    WITH i AS (
        -- goods with inventory
        SELECT
            DISTINCT good_id,
            point_id,
            -- last inventory: amount of goods
            last_value(fact_qnt) OVER
                (PARTITION BY good_id, point_id
                 ORDER BY created_at
                 ROWS BETWEEN UNBOUNDED PRECEDING AND UNBOUNDED FOLLOWING) AS in_qnt,
            -- last inventory: date
            MAX(created_at) OVER
                (PARTITION BY good_id, point_id
                 ORDER BY created_at
                 ROWS BETWEEN UNBOUNDED PRECEDING AND UNBOUNDED FOLLOWING) AS in_date
        FROM r_inventory),
        -- goods in after inventory
        g_in AS (
            SELECT
                good_id,
                s.point_id,
                SUM(fact_qnt) AS in_qnt
            FROM r_goods_supplies
                JOIN r_supplies s USING (supply_id)
                JOIN i USING (good_id, point_id)
            WHERE s.created_at > i.in_date
            GROUP BY good_id, point_id),
        -- goods out after inventory
        g_out AS (
            SELECT
                good_id,
                o.point_id,
                SUM(good_qnt) AS out_qnt
            FROM r_goods_orders
                JOIN r_orders o USING (order_id)
                JOIN i USING (good_id, point_id)
            WHERE o.created_at > i.in_date

```

```
        GROUP BY good_id, point_id)
SELECT
    good_id,
    point_id,
    i.in_qnt + coalesce(g_in.in_qnt, 0) AS in_qnt,
    g_out.out_qnt AS out_qnt
FROM i
    LEFT JOIN g_in USING(good_id, point_id)
    LEFT JOIN g_out USING(good_id, point_id)) AS i) AS a
JOIN goods g USING(good_id)
JOIN categories ct USING(category_id)
JOIN points p USING(point_id)
```