## KARACHI BRANCH INVENTORY VALUE (LATEST TP)

#### **QUERY-1**

Calculate inventory value for Karachi branch items using the latest cost price (TP). Final Output Fields: branch\_name, sku, item\_name, unit\_qty, total\_inventory\_value\_tp.

```
WITH LatestCostPrice AS (
    -- Finds the latest cost price for each item via max receiving_item.id for
relevant branches
    SELECT
        ri.cost price,
        ri.pos_id,
        i.sku
    FROM
        receiving_item ri
    JOTN
        item i
        ON ri.pos item id = i.pos item id
        AND ri.pos_id = i.pos_id
    JOIN
        pos p
        ON p.id = i.pos id
        AND p.branch_name LIKE '%Kara%'
    WHERE
        ri.id IN (
            SELECT MAX(ri_inner.id)
            FROM receiving item ri inner
            JOIN item i_inner
                ON ri_inner.pos_item_id = i_inner.pos_item_id
                AND ri_inner.pos_id = i_inner.pos_id
            JOIN receiving r inner
                ON r_inner.id = ri_inner.receiving_id
            WHERE
                ri_inner.is_deleted = FALSE
                AND ri_inner.is_active = TRUE
                AND i_inner.is_deleted = FALSE
                AND i_inner.is_active = TRUE
                AND r inner.is deleted = FALSE
                AND r_inner.is_active = TRUE
            GROUP BY
                i_inner.pos_id,
                i_inner.pos_item_id
        )
),
CurrentStock AS (
    -- Gets current stock for active items in Karachi branches, excluding
test/invalid SKUs
    SELECT
```

```
i.pos id,
    p.branch_name,
   i.sku,
   i.name AS item_name,
   iq.quantity AS unit_qty
FROM
    item i
JOTN
    item quantity iq
   ON iq.pos_item_id = i.pos_item_id
   AND i.pos_id = iq.pos_id
JOIN
   pos p
   ON p.id = i.pos_id
WHERE
   i.is active = TRUE
   AND i.is_deleted = FALSE
   AND iq.is deleted = FALSE
   AND iq.quantity > 0
   AND p.pos_is_active = TRUE
   AND p.branch name LIKE '%Kara%'
   AND i.strip_size != '0'
   AND i.pack size != '0'
   AND i.sku NOT LIKE '%zero%'
   AND i.sku NOT IN (
        'FORTES_6555',
        'FORTES_22759',
        'MULTIP_22674',
        'DULOSO 22673',
        '17747q',
        'TEST12_21931',
        'FORTES 21932')
   AND i.sku NOT LIKE '%e%'
   AND i.sku NOT LIKE '%t%')
```

#### **Final Calculation**

```
SELECT
    cs.branch_name,
    cs.sku,
    cs.item_name,
    cs.unit_qty,
    SUM(COALESCE(lcp.cost_price, 0) * cs.unit_qty) AS total_inventory_value_tp
FROM
    CurrentStock cs
LEFT JOIN
    LatestCostPrice lcp
    ON cs.pos_id = lcp.pos_id AND cs.sku = lcp.sku
WHERE
    cs.branch_name LIKE '%Karac%' -- Final branch name check
```

```
GROUP BY
    cs.branch_name, cs.sku, cs.item_name, cs.unit_qty
ORDER BY
    cs.branch_name, cs.item_name;
```

# **BRANCH-WISE MONTHLY GMV (USING MRP)**

#### **QUERY-2**

Calculate monthly Gross Merchandise Value (GMV) per branch/POS using item MRP. Final Output Fields: sale\_year, sale\_month, branch, pos\_id, monthly\_gmv\_mrp

```
WITH PreparedSalesData AS (
    -- Prepares sales data, adjusts timezone, applies filters
    SELECT
          (sale.sale_time - interval '4 hour') AS sale_time_local, -- Verify TZ
adjustment
          sale.pos_id,
          pos.branch_name as branch,
          sale_item.quantity_purchased,
          sale_item.item_mrp
FROM
          sale_item
JOIN
          sale ON sale.id = sale_item.sale_id
JOIN
          pos ON sale.pos_id = pos.id
```

```
WHERE
sale.pos_sale_id NOT IN (1150, 1889, 2336, 2598, 3713) -- Exclude

specific sales
AND (sale.customer_id NOT IN (33, 37, 69, 71, 55, 57) OR

sale.customer_id IS NULL) -- Exclude internal customers
AND sale.is_deleted = FALSE
AND DATE(sale.sale_time - interval '4 hour') >= '2023-01-01' -- Date

filter
AND sale_item.discount < 99 -- Exclude high discounts)
```

## **Final Aggregation**

```
SELECT
    EXTRACT(YEAR FROM sale_time_local) as sale_year,
    EXTRACT(MONTH FROM sale_time_local) as sale_month,
    branch,
    pos_id,
    SUM(COALESCE(quantity_purchased, 0) * COALESCE(item_mrp, 0)) as
monthly_gmv_mrp
FROM
    PreparedSalesData
GROUP BY
    sale_year,
    sale_month,
    branch,
    pos id
ORDER BY
    sale year,
    sale_month,
    branch,
    pos_id;
```

# **ITEM LEVEL INVENTORY (SPECIFIC POS)**

#### **QUERY-3**

Retrieve inventory quantity and value for POS ID 9 using the highest recorded MRP.

Final Output Fields: sku, product\_name, pos\_item\_id, pos\_id, highest\_recorded\_mrp,available\_quantity, total\_inventory\_value\_mrp

```
WITH CurrentStockAtPOS9 AS (
 --Fetches active items with quantity > 0 for POS ID 9
 SELECT
   i.sku,
   i.name AS product_name,
   i.pos_item_id,
   i.pos_id,
   iq.quantity
 FROM
   item i
 JOIN
   item_quantity iq
   ON iq.pos_item_id = i.pos_item_id
   AND iq.pos_id = i.pos_id
 WHERE
   i.pos_id = 9
   AND iq.is_deleted = FALSE
   AND iq.is active = TRUE
   AND i.is_deleted = FALSE
   AND i.is active = TRUE
   AND iq.quantity > 0
),
MaxMRPAtPOS9 AS (
Finds the maximum recorded MRP for each item at POS ID 9
MaxMRPAtPOS9 AS (
    SELECT
        rib.pos_item_id,
        rib.pos_id,
        MAX(rib.item_mrp) AS max_item_mrp
    FROM
        receiving_item_batch rib
    WHERE
        rib.pos_id = 9
        AND rib.is deleted = FALSE
        AND rib.is active = TRUE
        AND rib.item mrp IS NOT NULL
    GROUP BY
        rib.pos_item_id,
        rib.pos_id)
```

## **Final Calculation**

```
SELECT cs.sku,
```

```
cs.product_name,
cs.pos_item_id,
cs.pos_id,
COALESCE(mm.max_item_mrp, 0) AS highest_recorded_mrp,
cs.quantity AS available_quantity,
(COALESCE(mm.max_item_mrp, 0) * cs.quantity) AS total_inventory_value_mrp
FROM
CurrentStockAtPOS9 cs
LEFT JOIN
MaxMRPAtPOS9 mm
ON cs.pos_item_id = mm.pos_item_id
AND cs.pos_id = mm.pos_id

ORDER BY
cs.product_name;
```

# DAILY RECEIVING SUMMARY (FILTERED BRANCHES/INVOICE)

**QUERY-4** 

Summarize items received yesterday for branches 3-8 with invoice containing 'MMT'. Final Output Fields: receiving\_date\_local, branch\_name, ..., receiving\_day

```
WITH DailyReceivingData AS (
 -- Aggregates receiving data for specified POS IDs, adjusts timestamp
 SELECT
   DATE(r.created at - interval '4 hour') AS receiving date local, -- Verify TZ adjustment
   p.branch_name,
   r.po_invoice_number,
   ri.pos_item_id,
   i.sku,
   i.name AS item name,
   SUM(ri.total_quantity) AS total_quantity_received,
   SUM(ri.quantity purchased) AS quantity purchased,
   SUM(ri.quantity_return) AS quantity_returned
 FROM
   receiving r
 LEFT JOIN
   receiving_item ri ON ri.receiving_id = r.id
 LEFT JOIN
   item i ON i.pos item id = ri.pos item id AND i.pos id = ri.pos id
 LEFT JOIN
   pos p ON r.pos id = p.id
 WHERE
   r.pos_id IN (3, 4, 5, 6, 7, 8) -- Specific branches
   AND r.is active = TRUE
   AND r.is deleted = FALSE
   AND ri.is active = TRUE
   AND ri.is_deleted = FALSE
   AND i.is_active = TRUE
   AND i.is deleted = FALSE
   AND p.pos_is_active = TRUE
 GROUP BY
   DATE(r.created_at - interval '4 hour'),
   p.branch_name,
   r.po invoice number,
   ri.pos_item_id,
   i.sku,
   i.name)
Final Selection
SELECT
 drd.*,
 EXTRACT(MONTH FROM drd.receiving date local) AS receiving month,
 EXTRACT(YEAR FROM drd.receiving date local) AS receiving year,
```

EXTRACT(DAY FROM drd.receiving\_date\_local) AS receiving\_day

```
FROM
DailyReceivingData drd
WHERE
drd.receiving_date_local = (CURRENT_DATE - interval '1 day') -- Yesterday's data
AND drd.po_invoice_number LIKE '%MMT%' -- Specific invoice pattern
ORDER BY
drd.branch_name,
drd.receiving_date_local,
drd.item_name;
```

## **IB2C SKU LEVEL ORDER REPORT**

## **QUERY-5**

Detailed SKU-level report for Institutional B2C orders including quantities and pricing. Final Output Fields: order\_date\_pkt, Order\_ID\_Reference, ..., Sub\_Total.

```
WITH BaseOrderData AS (
 -- Gathers core order, item, batch details, converting timestamp to PKT
 SELECT
   o.id AS order id,
   DATE_FORMAT(date(CONVERT_TZ(o.created_at,'+00:00','+05:00')), '%m/%d/%y') AS
order_date_pkt,
   o.reference_id,
   o.daraz_order_id,
   o.consignment_number,
   io.pin,
   io.invoice no,
   CASE o.hub_id
     WHEN 5293 THEN 'Karachi'
     WHEN 14317 THEN 'Islamabad'
     WHEN 17317 THEN 'Lahore'
     ELSE 'Unknown'
   END AS warehouse_location,
   CASE
     WHEN i.name IS NOT NULL THEN i.name
     WHEN o.customer id = '25612' THEN 'OMI Hospital'
     ELSE 'B2C'
   END AS institution_name,
   os.name AS order status name,
   iof.description AS institution offer desc,
   p.b2c product display name AS product sku name,
   oib.order_item_id,
   oib.quantity AS shipped_quantity_batch,
   (oib.quantity * oib.actual price) AS batch total before discount,
   (oib.quantity * oib.selling_price) AS batch_total_after_discount
 FROM
   orders o
 JOIN
   order_item oi ON o.id = oi.order_id
 JOIN
   products p ON oi.products id = p.id
 JOIN
   order_items_batch oib ON oib.order_item_id = oi.id
 JOIN
   order_status os ON o.status = os.id
 LEFT JOIN
   institutional_orders io ON o.id = io.order_id
 LEFT JOIN
   institutions i ON io.institution_id = i.id
 LEFT JOIN
```

```
institutional_offers iof ON io.institutional_offer_id = iof.id
 WHERE
   o.business type IN ('IB2C')
Replace placeholders or use variables for dates
AND date(CONVERT TZ(o.created at,'+00:00','+05:00')) BETWEEN '2023-01-01' AND '2023-12-
31' -- Example Date Range
 AND o.contact_person_name NOT LIKE '%Test%'
 AND o.customer_id NOT IN (370, 456258, 52930, 1293333)
 AND o.contact person name NOT LIKE '%window%'
 AND oib.is deleted = 0
),
AggregatedBatchData AS (
Summarizes shipped quantities and values per order item
SELECT
    order item id,
    SUM(shipped_quantity_batch) AS total_shipped_quantity,
    SUM(batch_total_before_discount) AS total_value_before_discount,
    SUM(batch_total_after_discount) AS total_value_after_discount
FROM
    BaseOrderData
```

GROUP BY

order\_item\_id;