# **CPG (Consumer Packaged Goods)**

-- 1. Total sales overview

SELECT SUM("POS \$ Sales") AS total\_sales, SUM("POS Unit Sales") AS total\_units FROM sales;

-- 2. Monthly/quarterly trend

SELECT Month, SUM("POS \$ Sales") AS monthly\_sales FROM sales GROUP BY Month ORDER BY Month;

-- 3. Category-level performance

SELECT Category, SUM("POS \$ Sales") AS category\_sales FROM sales GROUP BY Category ORDER BY category\_sales DESC;

-- 4. Top Brands

SELECT Brand, SUM("POS \$ Sales") AS brand\_sales FROM sales GROUP BY Brand ORDER BY brand sales DESC LIMIT 10;

-- 5. Price vs Units

SELECT Brand, AVG("Shelf Price") AS avg\_price, SUM("POS Unit Sales") AS total\_units FROM sales GROUP BY Brand;

-- 6. Region-wise sales

SELECT Region, SUM("POS \$ Sales") AS regional\_sales FROM sales GROUP BY Region;

-- 7. YOY Growth

SELECT Year, SUM("POS \$ Sales") AS sales FROM sales GROUP BY Year ORDER BY Year;

-- 8. Promotion vs Regular Sales

SELECT IsPromoted, SUM("POS \$ Sales") FROM sales GROUP BY IsPromoted;

#### Healthcare

-- 1. Total patient visits

SELECT COUNT(\*) AS total\_visits FROM patient\_visits;

-- 2. Monthly patient trend

SELECT MONTH(visit\_date) AS month, COUNT(\*) AS patient\_count FROM patient\_visits GROUP BY month;

-- 3. Diagnosis distribution

SELECT diagnosis\_code, COUNT(\*) AS case\_count FROM patient\_visits GROUP BY diagnosis\_code ORDER BY case\_count DESC;

-- 4. Doctor performance

SELECT doctor\_id, COUNT(\*) AS patients\_seen FROM patient\_visits GROUP BY doctor\_id;

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-- 5. Revenue by department
SELECT department, SUM(bill_amount) AS dept_revenue FROM billing GROUP BY department;
-- 6. Average cost per treatment
SELECT
        treatment_type, AVG(bill_amount) AS avg_cost FROM billing GROUP
                                                                                      BY
treatment_type;
-- 7. Insurance vs Cash
SELECT payment_type, COUNT(*) AS count FROM billing GROUP BY payment_type;
Automobile
-- 1. Total car sales
SELECT COUNT(*) AS total_sales, SUM(price) AS total_revenue FROM sales;
-- 2. Sales trend by month
SELECT MONTH(sale_date) AS month, COUNT(*) AS cars_sold FROM sales GROUP BY month;
-- 3. Top selling models
SELECT model, COUNT(*) AS units_sold FROM sales GROUP BY model ORDER BY units_sold DESC;
-- 4. Sales by region
SELECT region, COUNT(*) AS regional_sales FROM sales GROUP BY region;
-- 5. Price segmentation
SELECT model, AVG(price) AS avg_price FROM sales GROUP BY model ORDER BY avg_price DESC;
-- 6. Defect reports by model
SELECT model, COUNT(*) AS defect_count FROM defects GROUP BY model;
-- 7. Time to service (after sale)
SELECT model, AVG(DATEDIFF(service_date, sale_date)) AS avg_days_to_service
                                                                                    FROM
service_records GROUP BY model;
Retail
-- 1. Total sales and orders
SELECT COUNT(order_id) AS total_orders, SUM(total_amount) AS total_sales FROM orders;
-- 2. Sales by product category
SELECT category, SUM(total_amount) AS category_sales FROM orders GROUP BY category;
-- 3. Monthly sales trend
SELECT MONTH(order_date) AS month, SUM(total_amount) AS monthly_sales FROM orders GROUP
BY month;
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#### -- 4. Top customers by revenue

SELECT customer\_id, SUM(total\_amount) AS revenue FROM orders GROUP BY customer\_id ORDER BY revenue DESC LIMIT 10;

#### -- 5. Sales by region

SELECT region, SUM(total\_amount) AS regional\_sales FROM orders GROUP BY region;

-- 6. Payment method split

SELECT payment\_method, COUNT(\*) AS count FROM orders GROUP BY payment\_method;

#### **E-Commerce**

#### -- 1. Total orders and revenue

SELECT COUNT(order\_id) AS total\_orders, SUM(order\_value) AS total\_revenue FROM ecommerce\_orders;

#### -- 2. Conversion rate

SELECT (COUNT(paid\_orders)/COUNT(total\_visits)) \* 100 AS conversion\_rate FROM
site\_metrics;

## -- 3. Revenue by product category

SELECT category, SUM(order\_value) AS revenue FROM ecommerce\_orders GROUP BY category;

#### -- 4. Cart abandonment rate

SELECT (COUNT(abandoned\_carts)/COUNT(started\_carts)) \* 100 AS abandonment\_rate FROM
cart\_data;

# -- 5. Top selling SKUs

SELECT sku, COUNT(\*) AS sales\_volume FROM ecommerce\_orders GROUP BY sku ORDER BY sales\_volume DESC LIMIT 10;

## Finance / Banking

## -- 1. Total transactions and volume

SELECT COUNT(\*) AS transaction\_count, SUM(amount) AS total\_volume FROM transactions;

## -- 2. Monthly transaction trend

SELECT MONTH(transaction\_date) AS month, SUM(amount) AS monthly\_volume FROM transactions GROUP BY month;

#### -- 3. Average account balance

SELECT account\_type, AVG(balance) AS avg\_balance FROM accounts GROUP BY account\_type;

# -- 4. Loan approval rate

SELECT (COUNT(CASE WHEN status='Approved' THEN 1 END) / COUNT(\*)) \* 100 AS approval\_rate

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FROM loan_applications;
-- 5. Fraudulent transaction rate
SELECT (COUNT(CASE WHEN is_fraud=1 THEN 1 END) / COUNT(*)) * 100 AS fraud_rate FROM
transactions;
Education / EdTech
-- 1. Total enrolled students
SELECT COUNT(*) AS total_students FROM students;
-- 2. Course popularity
SELECT course_name, COUNT(*) AS enrollment_count FROM enrollments GROUP BY course_name;
-- 3. Completion rate by course
SELECT course_name, (COUNT(CASE WHEN status='Completed' THEN 1 END)/COUNT(*)) * 100 AS
completion_rate FROM enrollments GROUP BY course_name;
-- 4. Average grades
SELECT course_name, AVG(grade) AS avg_grade FROM grades GROUP BY course_name;
-- 5. Monthly sign-ups
SELECT MONTH(signup_date) AS month, COUNT(*) AS signups FROM students GROUP BY month;
Logistics / Supply Chain
-- 1. Total shipments and delivery success rate
SELECT COUNT(*) AS total_shipments,
       (COUNT(CASE WHEN status='Delivered' THEN 1 END)/COUNT(*)) * 100 AS success_rate
FROM shipments;
-- 2. Average delivery time
SELECT AVG(DATEDIFF(delivery_date, shipment_date)) AS avg_delivery_days FROM shipments
WHERE status='Delivered';
-- 3. Top routes by volume
SELECT origin, destination, COUNT(*) AS shipment_count FROM shipments GROUP BY origin,
destination ORDER BY shipment_count DESC;
-- 4. Shipment delays by carrier
SELECT carrier, COUNT(*) AS delayed_shipments
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WHERE DATEDIFF(delivery\_date, expected\_date) > 0

GROUP BY carrier;