**1. What is the total sales revenue generated by each store?**

SELECT st.storename, ROUND (SUM(s.units p.productprice), 2) AS totalsalesrevenue

FROM sales s

JOIN products p ON s.productid = p.productid

JOIN stores st ON s.storeid = st.storeid

GROUP BY st.storename;

**2. Which products are the topselling in terms of units sold?**

SELECT p.productname, SUM(s.units) AS totalunits

FROM sales s

JOIN products p ON s.productid = p.productid

GROUP BY p.productname

ORDER BY totalunits DESC

LIMIT 1;

**3. What is the sales performance by product category?**

SELECT p.productcategory, ROUND (SUM(s.units p.productprice), 2) AS salesperformance

FROM sales s

JOIN products p ON s.productid = p.productid

GROUP BY p.productcategory;

**4. What are the current inventory levels for each product at each store?**

SELECT i.storeid, i.stockonhand, p.productname

FROM inventory i

JOIN products p ON i.productid = p.productid;

**5.How do monthly sales trends vary across different stores?**

SELECT DATE\_FORMAT(s.date,%Y-%m) AS month, s.storeid, ROUND(SUM(s.units \* p.productprice),2) as monthlysales

FROM sales s

JOIN products p ON s.productid = p.productid

GROUP BY month, s.storeid

ORDER BY month;

**6.Which stores have the highest and lowest sales performance?**

Highest:

SELECT s.storeid, SUM(s.units p.productprice) AS totalsales

FROM sales s

JOIN products p ON s.productid = p.productid

GROUP BY s.storeid

ORDER BY totalsales DESC

LIMIT 1;

Lowest:

SELECT s.storeid, SUM(s.units p.productprice) AS totalsales

JOIN products p ON s.productid = p.productid

GROUP BY s.storeid

ORDER BY totalsales

LIMIT 1;

**7. What is the profit margin for each product?**

SELECT p.productname,

ROUND ((p.productprice p.productcost) / p.productcost 100,0) AS profitmargin

FROM products p;

**8.How are sales distributed across different cities?**

SELECT st.storecity, ROUND (SUM(s.units p.productprice), 2) AS totalsales

FROM sales s

JOIN products p ON s.productid = p.productid

JOIN stores st ON s.storeid = st.storeid

GROUP BY st.storecity;

**9.Which products are out of stock in each store?**

SELECT p.productname

FROM inventory i

JOIN products p ON i.productid = p.productid

WHERE i.stockonhand=0;

**10.How do sales vary by specific dates?**

SELECT DATE FORMAT (s.date, %Y-%m-%d'), ROUND (SUM(s.units p.productprice), 2) AS total

FROM sales s

JOIN products p ON s.productid = p.productid

GROUP BY s.date

ORDER BY s.date;

**11.What is the average cost of products in each category?**

SELECT p.productcategory, ROUND (AVG(p.productcost), 2) AS averagecost

FROM products p

GROUP BY p.productcategory;

**12.What is the sales growth over time for the entire company?**

SELECT DATE FORMAT(s.date, '%Y-%m') AS months, ROUND (SUM(s.units p.productprice), 2) AS totalsales

sales s

JOIN products p ON s.productid = p.productid

GROUP BY months

ORDER BY months;

**13.How does the store open date affect sales performance?**

SELECT st.storename, ROUND (SUM(s.units p.productprice), 2) AS totalsalesrevenue

FROM sales s

JOIN products p ON s.productid = p.productid

JOIN stores st ON s.storeid = st.storeid

GROUP BY st.storename;

**14.What percentage of total sales does each store contribute?**

WITH total\_sales AS (SELECT ROUND(SUM(s.units p.productprice), 2) AS total

FROM sales s JOIN products p ON s.productid = p.productid)

SELECT st.storename, ROUND ((SUM(s.units p.productprice) / (SELECT total FROM total\_sales)) 100,2) AS salespercentage

FROM sales s

JOIN products p ON s.productid = p.productid

JOIN stores st ON s.storeid = st.storeid

GROUP BY st.storename;

**15.How do sales compare to current stock levels for each product?**

SELECT p.productname,

COALESCE(s.units\_sold, 0) AS units\_sold,

COALESCE(i.current\_stock, 0) AS current\_stock

FROM products p

LEFT JOIN (SELECT productid, ROUND (SUM(units), 2) AS units\_sold

FROM sales

GROUP BY productid) s ON p.productid s.productid

LEFT JOIN (SELECT productid, SUM(stockonhand) AS current\_stock

FROM inventory

GROUP BY productid) i ON p.productid i.productid;