Report 1: Top 5 Selling Drugs This Month

This report identifies the most demanded drugs in the current month based on total sales quantity and revenue. It provides insights into consumer demand trends, helping **pharmacists** maintain optimal stock levels and enabling **admins** to make strategic purchasing decisions.

How it Supports System Automation:

- Automated inventory optimization: Helps avoid overstocking or understocking by identifying fast-moving drugs.
- Business decision-making: Enables timely restocking and marketing focus on high-revenue products.
- Efficiency: Eliminates manual tracking of sales trends across hundreds of transactions.
- **Justification**: One of the core objectives of PIMS is to improve inventory management and reduce wastage by automating insights based on real-time data.

Script:

```
SELECT*
FROM (
 SELECT
  d.drug id,
  d.drug name,
  SUM(st.total_price) AS total_revenue,
  RANK() OVER (ORDER BY SUM(st.total price) DESC) AS revenue rank
 FROM drugs d
 JOIN sales transactions st ON d.drug id = st.drugs drug id
 GROUP BY d.drug id, d.drug name
WHERE revenue rank <= 5;
 Script Output × Query Result ×
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   5Azithromycin 500mg
                            1980
     10 Salbutamol Inhaler
9 Vitamin C 500mg
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      1 Paracetamol 500mg
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```

Report 2: Drugs Near Expiry But Still In Stock

Purpose of the Report:

This report highlights drugs that are due to expire within the next 60 days but still have available stock. It helps pharmacists and administrators take proactive action to either use, return, or discount these medications before they become unusable.

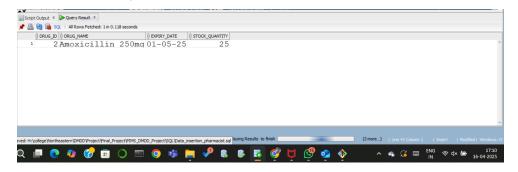
How it Supports System Automation:

- **Expiry-based stock prioritization:** Automatically flags drugs nearing expiration, avoiding manual expiry checks.
- **Proactive stock clearance:** Aids in planning clearance sales, return to suppliers, or internal prioritization.
- Reduced wastage: Minimizes the risk of holding unsellable inventory due to expired products.

Justification:

One of the critical goals of PIMS is to **minimize drug wastage and financial loss** by automating lifecycle tracking of pharmaceutical inventory. This report enables **real-time monitoring** of expiry-sensitive stock, making the system safer, more efficient, and regulation-compliant.

```
Script:
SELECT
drug_id,
drug_name,
expiry_date,
stock_quantity
FROM drugs
WHERE expiry_date BETWEEN SYSDATE AND SYSDATE + 60
AND stock_quantity > 0
ORDER BY expiry_date ASC;
```



Report 3: Supplier Performance by Sales Impact

Purpose of the Report:

Ranks suppliers based on the cumulative sales of the drugs they provide.

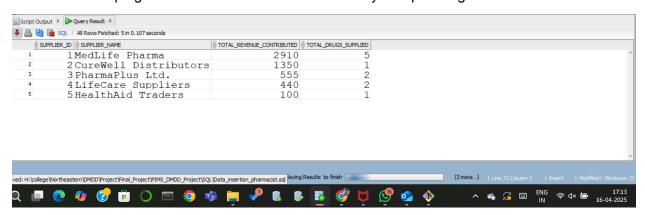
```
SELECT
    s.Supplier_ID,
    s.Supplier_Name,
    SUM(st.Total_Price) AS Total_Revenue_Contributed,
    COUNT(DISTINCT d.Drug_ID) AS Total_Drugs_Supplied
FROM
    Suppliers s
JOIN
    Drugs d ON s.Supplier_ID = d.Suppliers_Supplier_ID
JOIN
    Sales_Transactions st ON d.Drug_ID = st.Drugs_Drug_ID
GROUP BY
    s.Supplier_ID, s.Supplier_Name
ORDER BY
Total_Revenue_Contributed DESC;
```

How it Supports System Automation:

- Identifies high-performing suppliers for procurement strategy.
- Enables data-driven negotiation and supplier prioritization.

Justification:

PIMS enhances **procurement intelligence** by automating sales-to-supplier correlation—helping reduce costs and ensure availability of top-selling medications.



Report 4: Revenue Contribution by Drug Category

Purpose of the Report:

Shows how much revenue is generated by each drug category. This helps prioritize investment in high-revenue product segments.

```
SELECT

c.Catagory_ID,

c.Catagory_Name,

ROUND(SUM(st.Total_Price), 2) AS Total_Revenue

FROM

Drugs d

JOIN

Catagory c ON d.Catagory_Catagory_ID = c.Catagory_ID

JOIN

Sales_Transactions st ON d.Drug_ID = st.Drugs_Drug_ID

GROUP BY

c.Catagory_ID, c.Catagory_Name

ORDER BY

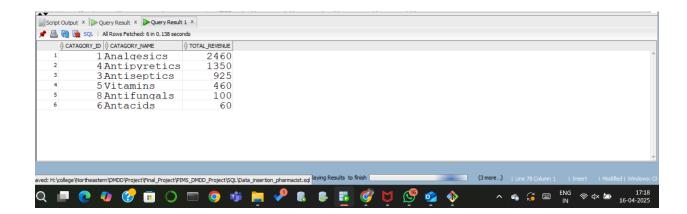
Total_Revenue DESC;
```

How it Supports System Automation:

- Highlights profitable categories for focused marketing or restocking.
- Automates category-level revenue tracking without manual reports.

Justification:

Aligns with PIMS's goal to **enhance strategic inventory and sales planning** by automating revenue analysis at the category level.



Report 5: Doctor-wise Revenue Generation

Purpose of the Report:

Displays how much revenue has been generated from prescriptions issued by each doctor. This helps evaluate doctor engagement and their indirect contribution to pharmacy sales.

```
SELECT
  d.Doctor_ID,
 d.Doctor_First_Name || ' ' || d.Doctor_Last_Name AS Doctor_Name,
 COUNT(DISTINCT p.Prescription_ID) AS Total_Prescriptions,
 SUM(st.Total_Price) AS Total_Revenue
FROM
 Doctors d
JOIN
  Prescriptions p ON d.Doctor_ID = p.Doctors_Doctor_ID
JOIN
  Prescription_Drugs pd ON p.Prescription_ID =
pd.Prescriptions_Prescription_ID
JOIN
  Sales_Transactions st ON pd.Drugs_Drug_ID = st.Drugs_Drug_ID
WHERE
  st.DATE_TIMESTAMP >= ADD_MONTHS(SYSDATE, -3)
GROUP BY
  d.Doctor_ID, d.Doctor_First_Name, d.Doctor_Last_Name
ORDER BY
 Total_Revenue DESC;
```

How it Supports System Automation:

- Identifies high-impact doctors for partnerships or loyalty programs.
- Automates performance tracking without requiring manual analytics.

Justification:

Aligns with PIMS's objective to **enhance sales tracking** and build data-backed engagement strategies with prescribing doctors.

