Real-time Stock & Work Order Analysis

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Order Status

02

Date wise report







Overview

Purpose: This project aims to analyze and manage stock and work order data efficiently.

Goals:

- Calculate the total number of stock items and work orders for each order.
- Determine the pending status of work orders based on stock availability.
- ✓ Implement logic to close or keep open work orders based on their pending status.
- ✓ Create and manage new tables to store processed data.
- Generate detailed reports for better data visualization and decision-making.
- ✓ Export all reports for easy reference and further analysis.

Keysteps

Calculation of Count

Determine stock and work order counts from the data. Use specific fields to categorize and count stock and work orders

Pending Status Calculation

Calculate the difference between stock count and work order count to determine pending status. Implement logic to define the status of work orders as either pending or closed.

Table Management

Create new tables to store intermediate and final processed data. Join multiple tables to combine relevant data for comprehensive analysis.

Report Generation

Produce detailed reports showing quantities, order counts, and supplier information. Split supplier names for better clarity and organization in the reports

Why it matters



Efficiency

Streamline the process of managing stock and work orders.



Accuracy

Ensure precise calculation and status determination of work orders.









Data Management

Enhance data organization with new tables and joined reports.



Decision Making

Provide clear and detailed reports to aid in strategic planning and operations.



Documentation

Export reports for comprehensive documentation and future reference.





Impact



Improve inventory management and operational efficiency.



Facilitate better planning and resource allocation.



Support informed decisionmaking through detailed data analysis.

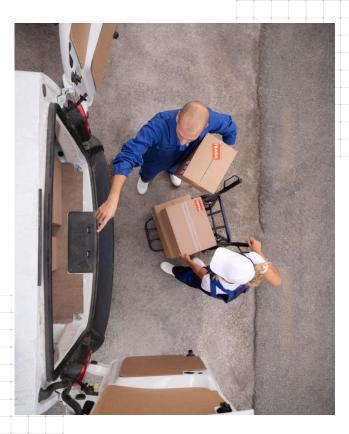




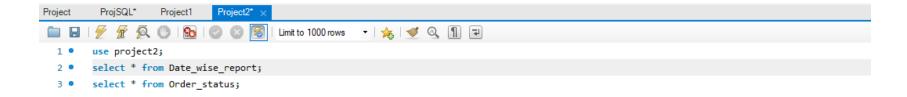
Datasets

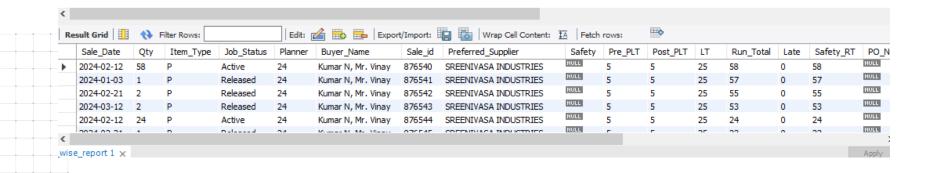






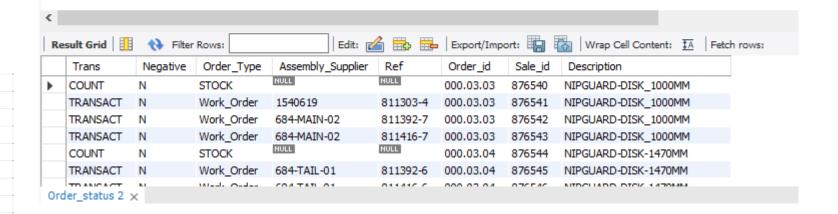
Date_wise_supplier





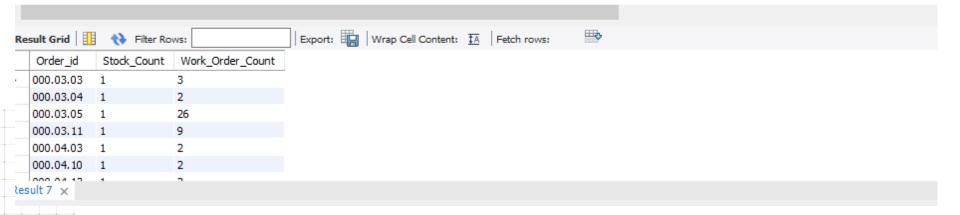
Order_Status

```
3 • select * from Order_status;
```



Calculate the Stock count & work order count based on order_id

```
5 -- calculate the Stock count & work order count based on order_id
6 • select os.Order_id,
7 sum(case when os.Order_Type='STOCK' then 1 else 0 end) as Stock_Count,
8 sum(case when os.Order_Type='Work_Order' then 1 else 0 end) as Work_Order_Count from Order_Status os group by os.Order_id;
```



Calculate Work_order_pending Status

```
-- calculate Work order pending Status
10
11 •
        select os.Order id,
12
        sum(case when os.Order Type='STOCK' then 1 else 0 end) as Stock Count,
        sum(case when os.Order Type='Work Order' then 1 else 0 end) as Work Order Count,
 13
14
        sum(case when os.Order Type='STOCK' then 1 else 0 end) - sum(case when os.Order Type='Work Order' then 1 else 0 end) as Work Order Pending Status
15
        from Order Status os group by os.Order id;
                                          Export: Wrap Cell Content: A Fetch rows:
Result Grid
             Filter Rows:
   Order id
            Stock_Count
                       Work_Order_Count Work_Order_Pending_Status
  000.03.03
                                        -2
  000.03.04
                                        -1
  000.03.05 1
                                        -25
  000.03.11 1
  000.04.03
                                        -1
                                        -1
  000.04.10
                                                                                                                                                     Read Onl
```

work_order Conditions

```
-- (i) creat a new field (Field name work order closed or not
17
       -- (ii) Work order pending status < 0 Then update order closed other wise Order pending
18
19
       select os.Order id,
20 •
       sum(case when os.Order Type = 'STOCK' then 1 else 0 end) as Stock Count,
21
       sum(case when os.Order_Type = 'Work_Order' then 1 else 0 end) as Work_Order_Count,
22
       sum(case when os.Order Type = 'STOCK' then 1 else 0 end) - sum(case when os.Order Type = 'Work Order' then 1 else 0 end) as Work Order Pending status,
23
24
    ⊖ case
       when (sum(case when os.Order Type = 'STOCK' then 1 else 0 end) - sum(case when os.Order Type = 'Work Order' then 1 else 0 end)) <0 then 'Order Closed'
25
26
       else 'Order Pending'
       end as Work Order Closed or Not from Order Status os group by os.Order id;
27
```

4					
	Result Grid	🙌 Filter Ro	Export: Wrap Cell Cor	tent: 🚻 Fetch rows:	
_	Order_id	Stock_Count	Work_Order_Count	Work_Order_Pending_status	Work_Order_Closed_or_Not
	000.03.03	1	3	-2	Order Closed
	000.03.04	1	2	-1	Order Closed
	000.03.05	1	26	-25	Order Closed
	000.03.11	1	9	-8	Order Closed
	000.04.03	1	2	-1	Order Closed
<u> </u>	000.04.10	1	2	-1	Order Closed
	Result 9 X	•	2	•	V-1 (I1

Create a new table after completing pending status: (Order_pending_status)

```
-- create a new table after completing pending status (table name: Order pending status)
 29
  30 •
         create table Order pending status(select os.Order id,
 31
         sum(case when os.Order Type = 'STOCK' then 1 else 0 end) as Stock Count,
         sum(case when os.Order Type = 'Work Order' then 1 else 0 end) as Work Order Count,
 32
         sum(case when os.Order Type = 'STOCK' then 1 else 0 end) - sum(case when os.Order Type = 'Work Order' then 1 else 0 end) as Work Order Pending status,
 33
 34
         case
         when (sum(case when os.Order Type = 'STOCK' then 1 else 0 end) - sum(case when os.Order Type = 'Work Order' then 1 else 0 end)) <0 then 'Order Closed'
 35
 36
         else 'Order Pending'
 37
         end as Work Order Closed or Not from Order Status os group by os.Order id);
 38 •
         select * from Order pending status;
 30
                                            Export: Wrap Cell Content: TA Fetch rows:
Result Grid
              ♦ Filter Rows:
             Stock_Count Work_Order_Count Work_Order_Pending_status Work_Order_Closed_or_Not
   Order id
  000.03.03
                                          -2
                                                                 Order Closed
   000.03.04
                                                                 Order Closed
   000.03.05
                                          -25
                                                                 Order Closed
                                                                 Order Closed
   000.03.11
                                          -1
                                                                  Order Closed
   000.04.03
   000.04.10
                                                                  Order Closed
                                                                  A-4-- A---4
Order_pending_status 10 ×
                                                                                                                                                        Read Only
```

Create a second table while using join: (order_supplier_report)

```
-- create a second table while using join (table name : order supplier report)
  40
  41
         create table order supplier report (select os.Order id, os.Order Type, os.Assembly Supplier, dwr.Sale id,
          dwr.Sale_Date, dwr.Qty, dwr.Item_Type, dwr.Job_Status, dwr.Planner, dwr.Buyer_Name, dwr.Preferred_Supplier, dwr.Safety, dwr.Pre PLT,
  43
          dwr.Post PLT, dwr.LT, dwr.Run Total, dwr.Late, dwr.Safety RT, dwr.PO Note, dwr.Net Neg, dwr.Last Neg, dwr.Item Category, dwr.Created On Date
  44
          from Order Status os left join Date_wise_report dwr on os.Sale_id = dwr.Sale_id);
  45
  46
          select * from order supplier report;
                                                                                           4
                                             Export: Wrap Cell Content: IA
Result Grid
               ♦ Filter Rows:
                          Assembly Supplier
    Order_id
              Order_Type
                                           Sale_id
                                                    Sale_Date
                                                                                Job Status
                                                                                            Planner
                                                                                                                      Preferred Supplier
                                                                                                                                                      Pre PLT
                                                                                                                                                               Post PLT
                                                                     Item_Type
                                                                                                    Buyer_Name
                                                                                                                                               Safety
   000.03.03
              STOCK
                                                                                                   Kumar N, Mr. Vinay
                                                                                                                     SREENIVASA INDUSTRIES
                                           876540
                                                   2024-02-12
                                                                                Active
                                                                                           24
              Work Order
                                                                                                   Kumar N, Mr. Vinay
   000.03.03
                          1540619
                                           876541
                                                   2024-01-03
                                                                                Released
                                                                                                                     SREENIVASA INDUSTRIES
   000.03.03
              Work Order
                          684-MAIN-02
                                                                                Released
                                                                                           24
                                                                                                   Kumar N, Mr. Vinay
                                                                                                                     SREENIVASA INDUSTRIES
                                           876542
                                                   2024-02-21 2
             Work Order
                                                   2024-03-12 2
                                                                                Released
                                                                                           24
                                                                                                   Kumar N, Mr. Vinay
                                                                                                                     SREENIVASA INDUSTRIES
   000.03.03
                          684-MAIN-02
                                           876543
order_supplier_report 11 ×
                                                                                                                                                                         0
```

find out the reports: (I) Date_wise Quantity & Order_id count

(II) split the supplier_name while using comma delimiter

```
53
          -- (II)split the supplier name while using comma delimiter
 54 •
          select Order id, Order Type, Assembly Supplier, Sale Date, Qty, Item Type, Job Status, Planner,
          SUBSTRING INDEX(Buyer Name, ',', -1) as First Name, SUBSTRING INDEX(Buyer Name, ',', 1) as Last Name, Preferred Supplier, Safety, Pre PLT, Post PLT,
 55
 56
          LT, Run Total, Late, Safety RT, PO Note, Net Neg, Last Neg, Item Category, Created On Date from order supplier report;
 57
                                                                                             ₩.
                ♦ Filter Rows:
                                               Export: Wrap Cell Content: $\overline{A}$ Fetch rows:
Result Grid
    Order id
               Order_Type
                           Assembly_Supplier
                                            Sale Date
                                                                          Job Status
                                                                                     Planner
                                                                                              First Name
                                                                                                                     Preferred Supplier
                                                                                                                                                      Pre PLT
                                                                                                                                                               Post_PLT
                                                               Item_Type
                                                                                                          Last Name
   000.03.03
              STOCK
                                                                         Active
                                            2024-02-12
                                                                                              Mr. Vinav
                                                                                                         Kumar N
                                                                                                                     SREENIVASA INDUSTRIES
                                                                                                                                                                         25
   000.03.03
              Work Order
                                                                         Released
                                                                                              Mr. Vinay
                                                                                                         Kumar N
                                                                                                                                                                         25
                          1540619
                                            2024-01-03
                                                                                                                    SREENIVASA INDUSTRIES
   000.03.03
              Work Order
                                                                                                                                                                         25
                          684-MAIN-02
                                            2024-02-21
                                                                         Released
                                                                                              Mr. Vinay
                                                                                                         Kumar N
                                                                                                                    SREENIVASA INDUSTRIES
                                                                                                                                                                         25
   000.03.03
              Work Order
                         684-MAIN-02
                                            2024-03-12
                                                                                                                    SREENIVASA INDUSTRIES
                                                                         Released
                                                                                              Mr. Vinay
                                                                                                         Kumar N
Result 13 ×
                                                                                                                                                                            Rea
```

Store the all reports and tables while using stored procedure.

```
delimiter %%
          drop table order supplier report;
  60 •
          create procedure SupplierReport()
 61
         begin
  62
          create table order supplier report as select os.Order id, os.Order Type, os.Assembly Supplier,dwr.Sale id,
 63
          dwr.Sale Date, dwr.Oty, dwr.Item Type, dwr.Job Status, dwr.Planner, dwr.Buyer Name, dwr.Preferred Supplier, dwr.Safety, dwr.Pre PLT,
  64
 65
          dwr.Post PLT, dwr.LT, dwr.Run Total, dwr.Late, dwr.Safety RT, dwr.PO Note, dwr.Net Neg, dwr.Last Neg, dwr.Item Category, dwr.Created On Date
 66
          from Order Status os left join Date_wise_report dwr on os.Sale_id = dwr.Sale_id;
          select * from order supplier report;
 67
          end %%
  68
          delimiter ;
 69
          call SupplierReport();
  70 •
 71
                                                                                        4
Result Grid
               Filter Rows:
                                          Export:
                                                     Wrap Cell Content: $\overline{\pmathbb{T}}$
                                                                        Fetch rows:
                          Assembly_Supplier
                                                                                  Job Status
                                                                                             Planner
                                                                                                                       Preferred Supplier
                                                                                                                                                Safety
                                                                                                                                                        Pre PLT
                                                                                                                                                                 Post PLT
    Order id
              Order_Type
                                            Sale id
                                                    Sale Date
                                                                      Item Type
                                                                                                      Buyer Name
                                                                                                                                               NULL
   000.03.03
              STOCK
                                           876540
                                                                                                                      SREENIVASA INDUSTRIES
                                                    2024-02-12
                                                                                 Active
                                                                                                     Kumar N. Mr. Vinav
                                                                                             24
              Work Order
                                                                                 Released
                                                                                            24
                                                                                                     Kumar N, Mr. Vinay
                                                                                                                      SREENIVASA INDUSTRIES
   000.03.03
                          1540619
                                           876541
                                                    2024-01-03
              Work Order
                                                                                             24
                                                                                                     Kumar N, Mr. Vinay
                                                                                                                      SREENIVASA INDUSTRIES
                                                                                                                                                                           2
   000.03.03
                          684-MAIN-02
                                           876542
                                                    2024-02-21
                                                                                 Released
                                                                                                                                                                          2 0
              Work Order
                          684-MAIN-02
                                                                                            24
                                                                                                     Kumar N, Mr. Vinay
                                                                                                                      SREENIVASA INDUSTRIES
   000.03.03
                                           876543
                                                    2024-03-12 2
                                                                                 Released
Result 14 x
```

Store the all reports and tables while using stored procedure.

```
delimiter %%
 73
 74 •
         create procedure OrderCount()
         begin
 75
         create table date wise qty order count as
 76
         select Sale Date, sum(Qty) as Total Quantity, count(distinct Order id) as Order ID Count from order supplier report group by Sale Date;
 77
         select * from date wise qty order count;
 78
         end %%
 79
         delimiter ;
         call OrderCount();
Result Grid | Filter Rows:
                                         Export: Wrap Cell Content: $\overline{A}$
                             Order_ID_Count
    Sale_Date
               Total_Quantity
              NULL
                             1362
   2018-08-24
   2022-05-31
   2022-10-19
   2023-05-16
   2023-09-25
   2023-10-21 2
   2023-11-28
   2023-11-29 1
Result 15 ×
```

Store the all reports and tables while using stored procedure.

```
create procedure SupplierNameSplit()

    begin

86
87
       create table supplier name split as
       select Order_id, Order_Type, Assembly_Supplier, Sale_Date, Qty, Item_Type, Job_Status, Planner,
88
       SUBSTRING INDEX(Buyer Name, ',', -1) as First Name, SUBSTRING INDEX(Buyer Name, ',', 1) as Last Name, Preferred Supplier, Safety, Pre PLT, Post PLT,
89
       LT, Run Total, Late, Safety RT, PO Note, Net Neg, Last Neg, Item Category, Created On Date from order supplier report;
90
       select * from supplier name split;
91
       end %%
92
       delimiter ;
93
94 •
       call SupplierNameSplit();
```

<																
Result Grid Filter Rows: Export: Wrap Cell Content: TA Fetch rows:																
	Order_id	Order_Type	Assembly_Supplier	Sale_Date	Qty	Item_Type	Job_Status	Planner	First_Name	Last_Name	Preferred_Supplier	Safety	Pre_PLT	Post_PLT	LT	^ <u>F</u>
-	000.03.03	STOCK	NULL	2024-02-12	58	Р	Active	24	Mr. Vinay	Kumar N	SREENIVASA INDUSTRIES	NULL	5	5	25	
	000.03.03	Work_Order	1540619	2024-01-03	1	P	Released	24	Mr. Vinay	Kumar N	SREENIVASA INDUSTRIES	NULL	5	5	25	
	000.03.03	Work_Order	684-MAIN-02	2024-02-21	2	P	Released	24	Mr. Vinay	Kumar N	SREENIVASA INDUSTRIES	NULL	5	5	25	
	000.03.03	Work_Order	684-MAIN-02	2024-03-12	2	P	Released	24	Mr. Vinay	Kumar N	SREENIVASA INDUSTRIES	NULL	5	5	25	E
	000.03.04	STOCK	NULL	2024-02-12	24	P	Active	24	Mr. Vinay	Kumar N	SREENIVASA INDUSTRIES	NULL	5	5	25	Ė
	000.03.04	Work Order	684-TATI -01	2024-02-21	1	P	Released	24	Mr. Vinav	Kumar N	SREENTVASA TNDLISTRIES	NULL	5	5	25	٧ :
<															>	
Re	esult 22 🗴															Rea



Conclusion

This project has laid a solid foundation for better inventory and work order management. The calculated data, enhanced reports, and improved data organization will significantly contribute to operational efficiency and strategic planning. By continuing to refine and expand upon these processes, we can achieve even greater accuracy and efficiency in our operations.

Project By: Besant Technologies

Anna Nagar, Chennai



Thanks!

