

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.



Why it matters



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 decision-making through detailed data analysis.



Datasets













Date_wise_supplier

Project






ProjSQL*

Project1

Project2* x







Limit to 1000 rows






```
1 • use project2;  
2 • select * from Date_wise_report;  
3 • select * from Order_status;
```


Result Grid

Filter Rows:

Edit: 

Export/Import: 

Wrap Cell Content: 

Fetch rows: 

	Sale_Date	Qty	Item_Type	Job_Status	Planner	Buyer_Name	Sale_id	Preferred_Supplier	Safety	Pre_PLT	Post_PLT	LT	Run_Total	Late	Safety_RT	PO_N
▶	2024-02-12	58	P	Active	24	Kumar N, Mr. Vinay	876540	SREENIVASA INDUSTRIES	NULL	5	5	25	58	0	58	NULL
	2024-01-03	1	P	Released	24	Kumar N, Mr. Vinay	876541	SREENIVASA INDUSTRIES	NULL	5	5	25	57	0	57	NULL
	2024-02-21	2	P	Released	24	Kumar N, Mr. Vinay	876542	SREENIVASA INDUSTRIES	NULL	5	5	25	55	0	55	NULL
	2024-03-12	2	P	Released	24	Kumar N, Mr. Vinay	876543	SREENIVASA INDUSTRIES	NULL	5	5	25	53	0	53	NULL
	2024-02-12	24	P	Active	24	Kumar N, Mr. Vinay	876544	SREENIVASA INDUSTRIES	NULL	5	5	25	24	0	24	NULL
	2024-02-21	1	P	Released	24	Kumar N, Mr. Vinay	876545	SREENIVASA INDUSTRIES	NULL	5	5	25	22	0	22	NULL

wise_report 1 x






Apply

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

<div> <div>Result Grid</div> <div> <div>Filter Rows:</div> <div></div> </div> <div> <div>Edit:</div> <div></div> <div></div> <div></div> </div> <div> <div>Export/Import:</div> <div></div> <div></div> </div> <div> <div>Wrap Cell Content:</div> <div></div> </div> <div> <div>Fetch rows:</div> <div></div> </div> </div>								
	Trans	Negative	Order_Type	Assembly_Supplier	Ref	Order_id	Sale_id	Description
▶	COUNT	N	STOCK	NULL	NULL	000.03.03	876540	NIPGUARD-DISK_1000MM
	TRANSACT	N	Work_Order	1540619	811303-4	000.03.03	876541	NIPGUARD-DISK_1000MM
	TRANSACT	N	Work_Order	684-MAIN-02	811392-7	000.03.03	876542	NIPGUARD-DISK_1000MM
	TRANSACT	N	Work_Order	684-MAIN-02	811416-7	000.03.03	876543	NIPGUARD-DISK_1000MM
	COUNT	N	STOCK	NULL	NULL	000.03.04	876544	NIPGUARD-DISK-1470MM
	TRANSACT	N	Work_Order	684-TAIL-01	811392-6	000.03.04	876545	NIPGUARD-DISK-1470MM
	TRANSACT	N	Work_Order	684-TAIL-01	811416-6	000.03.04	876546	NIPGUARD-DISK-1470MM

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;
```

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content:  | Fetch rows: 

Order_id	Stock_Count	Work_Order_Count
000.03.03	1	3
000.03.04	1	2
000.03.05	1	26
000.03.11	1	9
000.04.03	1	2
000.04.10	1	2
000.04.12	1	2

result 7 x

Calculate Work_order_pending Status

```
10  -- calculate Work_order_pending Status
11  •  select os.Order_id,
12      sum(case when os.Order_Type='STOCK' then 1 else 0 end) as Stock_Count,
13      sum(case when os.Order_Type='Work_Order' then 1 else 0 end) as Work_Order_Count,
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;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows: |

	Order_id	Stock_Count	Work_Order_Count	Work_Order_Pending_Status
▶	000.03.03	1	3	-2
	000.03.04	1	2	-1
	000.03.05	1	26	-25
	000.03.11	1	9	-8
	000.04.03	1	2	-1
	000.04.10	1	2	-1
	000.04.12	1	2	-1

Result 8 x

Read Only

work_order Conditions

```
17  -- (i) creat a new field (Field name work_order_closed_or_not
18  -- (ii) Work_order_pending status < 0 Then update order_closed other wise Order_pending
19
20  • select os.Order_id,
21      sum(case when os.Order_Type = 'STOCK' then 1 else 0 end) as Stock_Count,
22      sum(case when os.Order_Type = 'Work_Order' then 1 else 0 end) as Work_Order_Count,
23      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,
24      case
25      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'
26      else 'Order Pending'
27      end as Work_Order_Closed_or_Not from Order_Status os group by os.Order_id;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | 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
000.04.10	1	2	-1	Order Closed
000.04.12	1	2	-1	Order Closed

Result 9 x

Read Only

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

```
29 -- create a new table after completing pending status (table name: Order_pending_status)
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,
32     sum(case when os.Order_Type = 'Work_Order' then 1 else 0 end) as Work_Order_Count,
33     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,
34     case
35     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'
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;
```

Result Grid

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
000.04.10	1	2	-1	Order Closed
000.04.12	1	2	-1	Order Closed

Order_pending_status 10 x

Read Only

Create a second table while using join: (order_supplier_report)

```
40 -- create a second table while using join (table name : order_supplier_report)
41
42 • create table order_supplier_report (select os.Order_id, os.Order_Type, os.Assembly_Supplier,dwr.Sale_id,
43   dwr.Sale_Date, dwr.Qty, dwr.Item_Type, dwr.Job_Status, dwr.Planner, dwr.Buyer_Name, dwr.Preferred_Supplier, dwr.Safety, dwr.Pre_PLT,
44   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
45   from Order_Status os left join Date_wise_report dwr on os.Sale_id = dwr.Sale_id);
46
47 • select * from order_supplier_report;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows: |

	Order_id	Order_Type	Assembly_Supplier	Sale_id	Sale_Date	Qty	Item_Type	Job_Status	Planner	Buyer_Name	Preferred_Supplier	Safety	Pre_PLT	Post_PLT	
▶	000.03.03	STOCK	NULL	876540	2024-02-12	58	P	Active	24	Kumar N, Mr. Vinay	SREENIVASA INDUSTRIES	NULL	5	5	2
	000.03.03	Work_Order	1540619	876541	2024-01-03	1	P	Released	24	Kumar N, Mr. Vinay	SREENIVASA INDUSTRIES	NULL	5	5	2
	000.03.03	Work_Order	684-MAIN-02	876542	2024-02-21	2	P	Released	24	Kumar N, Mr. Vinay	SREENIVASA INDUSTRIES	NULL	5	5	2
	000.03.03	Work_Order	684-MAIN-02	876543	2024-03-12	2	P	Released	24	Kumar N, Mr. Vinay	SREENIVASA INDUSTRIES	NULL	5	5	2

order_supplier_report 11 x

find out the reports:

(I) Date_wise Quantity & Order_id count

```
49  -- (I) Date_wise Quantity & Order_id count
50  •  select Sale_Date, sum(Qty) as Total_Quantity, count(distinct Order_id) as Order_ID_Count from order_supplier_report group by Sale_Date
51  order by Sale_Date;
```

<

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	Sale_Date	Total_Quantity	Order_ID_Count
▶	NULL	NULL	1362
	2018-08-24	2	2
	2022-05-31	2	2
	2022-10-19	0	1
	2023-05-16	0	1

Result 12



(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,
55 SUBSTRING_INDEX(Buyer_Name, ',', -1) as First_Name, SUBSTRING_INDEX(Buyer_Name, ',', 1) as Last_Name, Preferred_Supplier, Safety, Pre_PLT, Post_PLT,
56 LT, Run_Total, Late, Safety_RT, PO_Note, Net_Neg, Last_Neg, Item_Category, Created_On_Date from order_supplier_report;
57
```

Result Grid

Filter Rows: Export: Wrap Cell Content: 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
▶	000.03.03	STOCK	NULL	2024-02-12	58	P	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

Result 13 x

```

59 delimiter %%
60 • drop table order_supplier_report;
61 create procedure SupplierReport()
62 begin
63     create table order_supplier_report as select os.Order_id, os.Order_Type, os.Assembly_Supplier,dwr.Sale_id,
64     dwr.Sale_Date, dwr.Qty, dwr.Item_Type, dwr.Job_Status, dwr.Planner, dwr.Buyer_Name, dwr.Preferred_Supplier, dwr.Safety, dwr.Pre_PLT,
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;
67     select * from order_supplier_report;
68 end %%
69 delimiter ;
70 • call SupplierReport();
71

```

Result Grid															Filter Rows:		Export:		Wrap Cell Content:		Fetch rows:		
	Order_id	Order_Type	Assembly_Supplier	Sale_id	Sale_Date	Qty	Item_Type	Job_Status	Planner	Buyer_Name	Preferred_Supplier	Safety	Pre_PLT	Post_PLT	1								
▶	000.03.03	STOCK	NULL	876540	2024-02-12	58	P	Active	24	Kumar N, Mr. Vinay	GREENIVASA INDUSTRIES	NULL	5	5	2								
	000.03.03	Work_Order	1540619	876541	2024-01-03	1	P	Released	24	Kumar N, Mr. Vinay	GREENIVASA INDUSTRIES	NULL	5	5	2								
	000.03.03	Work_Order	684-MAIN-02	876542	2024-02-21	2	P	Released	24	Kumar N, Mr. Vinay	GREENIVASA INDUSTRIES	NULL	5	5	2								
	000.03.03	Work_Order	684-MAIN-02	876543	2024-03-12	2	P	Released	24	Kumar N, Mr. Vinay	GREENIVASA INDUSTRIES	NULL	5	5	2								

Store the all reports and tables while using stored procedure.

```
73 delimiter %%  
74 • create procedure OrderCount()  
75 begin  
76 create table date_wise_qty_order_count as  
77 select Sale_Date, sum(Qty) as Total_Quantity, count(distinct Order_id) as Order_ID_Count from order_supplier_report group by Sale_Date;  
78 select * from date_wise_qty_order_count;  
79 end %%  
80 delimiter ;  
81 • call OrderCount();
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	Sale_Date	Total_Quantity	Order_ID_Count
▶	NULL	NULL	1362
	2018-08-24	2	2
	2022-05-31	2	2
	2022-10-19	0	1
	2023-05-16	0	1
	2023-09-25	0	1
	2023-10-21	2	1
	2023-11-28	2	1
	2023-11-29	1	1

Result 15 x

Store the all reports and tables while using stored procedure.

```
85 • create procedure SupplierNameSplit()
86 • begin
87 • create table supplier_name_split as
88 • select Order_id, Order_Type, Assembly_Supplier, Sale_Date, Qty, Item_Type, Job_Status, Planner,
89 • SUBSTRING_INDEX(Buyer_Name, ',', -1) as First_Name, SUBSTRING_INDEX(Buyer_Name, ',', 1) as Last_Name, Preferred_Supplier, Safety, Pre_PLT, Post_PLT,
90 • LT, Run_Total, Late, Safety_RT, PO_Note, Net_Neg, Last_Neg, Item_Category, Created_On_Date from order_supplier_report;
91 • select * from supplier_name_split;
92 • end %%
93 • delimiter ;
94 • call SupplierNameSplit();
```

Result Grid																
Filter Rows: <input type="text"/> Exports: Wrap Cell Content: 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	
▶	000.03.03	STOCK	NULL	2024-02-12	58	P	Active	24	Mr. Vinay	Kumar N	REENIVASA INDUSTRIES	NULL	5	5	25	
	000.03.03	Work_Order	1540619	2024-01-03	1	P	Released	24	Mr. Vinay	Kumar N	REENIVASA INDUSTRIES	NULL	5	5	25	
	000.03.03	Work_Order	684-MAIN-02	2024-02-21	2	P	Released	24	Mr. Vinay	Kumar N	REENIVASA INDUSTRIES	NULL	5	5	25	
	000.03.03	Work_Order	684-MAIN-02	2024-03-12	2	P	Released	24	Mr. Vinay	Kumar N	REENIVASA INDUSTRIES	NULL	5	5	25	
	000.03.04	STOCK	NULL	2024-02-12	24	P	Active	24	Mr. Vinay	Kumar N	REENIVASA INDUSTRIES	NULL	5	5	25	
	000.03.04	Work_Order	684-TATI -01	2024-02-21	1	P	Released	24	Mr. Vinay	Kumar N	REENIVASA INDUSTRIES	NULL	5	5	25	

Result 22 x



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

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Thanks!

