

ETL with SSIS

In this project, I did ETL on SQL Server
with SSIS on Visual Studio 2019,
I used SQL Server Agent to schedule daily data extracts.
After that I used Tableau to create a dashboard by
connecting directly to SQL server



Dataset



Table OrderDetails
5.000 Rows - 5 Fields

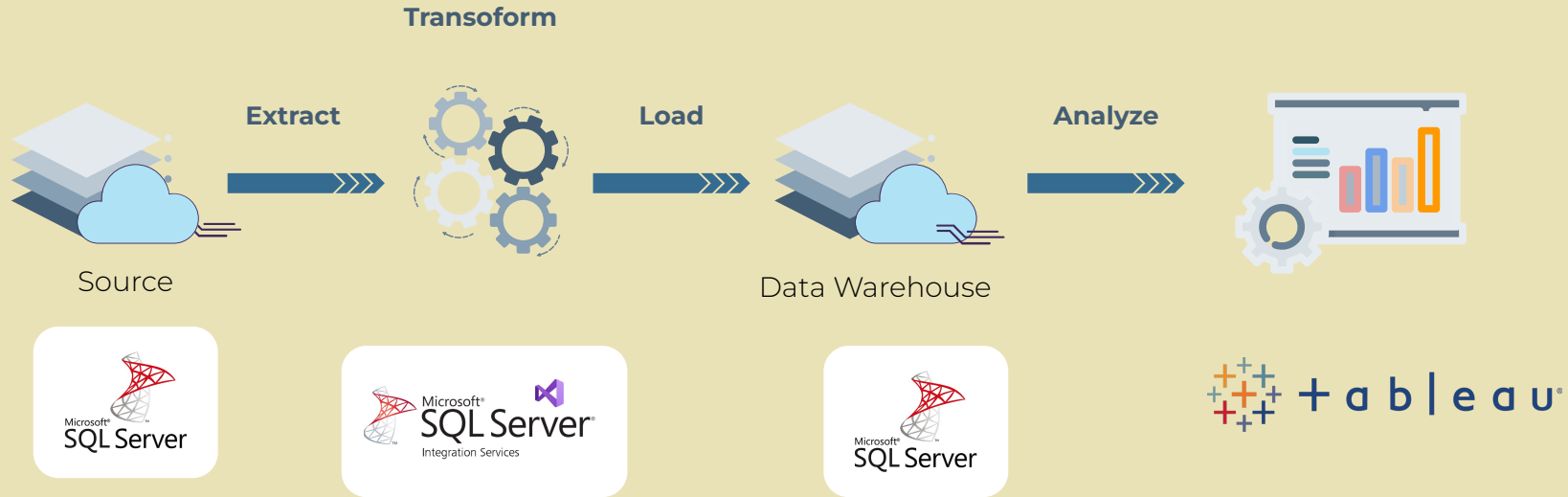


Table Product
95 Rows - 4 Fields



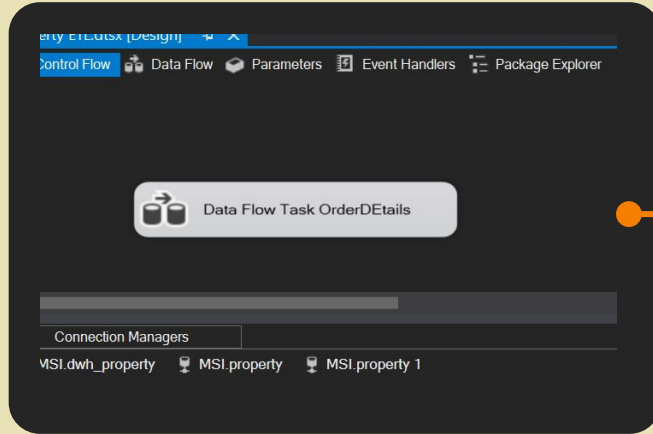
Table PropertyInfo
21 Rows - 3 Fields

Proccess



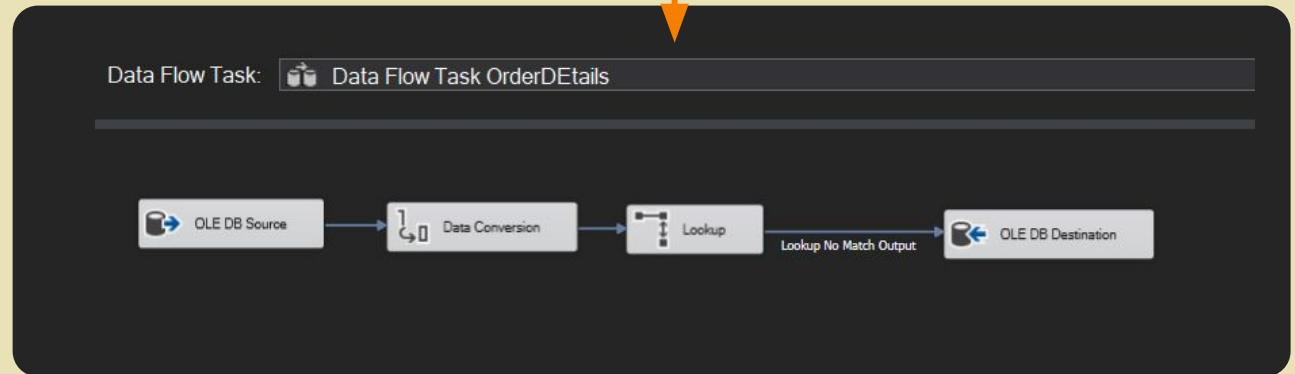
ETL SSIS

Data Flow



Proses ETL

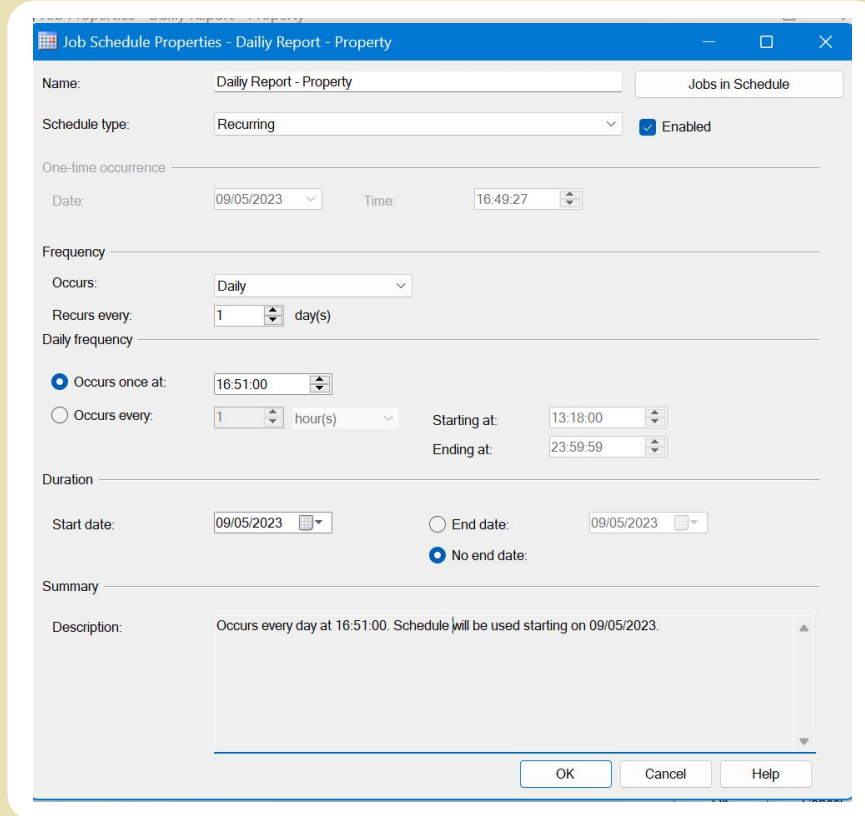
OrderDetails data to be ingested,
Will be looked up
To check the data does not occur
Duplicates



SQL Server Agent

Daily scheduling to extract data

The data will be extracted
every 16:51:00



The screenshot displays the 'Job Schedule Properties - Daily Report - Property' dialog box. The 'Name' field is 'Daily Report - Property' and the 'Jobs in Schedule' button is visible. The 'Schedule type' is set to 'Recurring' and the 'Enabled' checkbox is checked. The 'One-time occurrence' section is collapsed. The 'Frequency' section shows 'Occurs' as 'Daily' and 'Rekurs every' as '1 day(s)'. The 'Daily frequency' section shows 'Occurs once at' as '16:51:00'. The 'Duration' section shows 'Start date' as '09/05/2023' and 'No end date' selected. The 'Summary' section shows the 'Description' as 'Occurs every day at 16:51:00. Schedule will be used starting on 09/05/2023.' The 'OK', 'Cancel', and 'Help' buttons are at the bottom.

Job Schedule Properties - Daily Report - Property

Name: Daily Report - Property Jobs in Schedule

Schedule type: Recurring ☒ Enabled

One-time occurrence

Date: 09/05/2023 Time: 16:49:27

Frequency

Occurs: Daily

Rekurs every: 1 day(s)

Daily frequency

☒ Occurs once at: 16:51:00

☐ Occurs every: 1 hour(s)

Starting at: 13:18:00

Ending at: 23:59:59

Duration

Start date: 09/05/2023 ☐ End date: 09/05/2023

☒ No end date:

Summary

Description: Occurs every day at 16:51:00. Schedule will be used starting on 09/05/2023.

OK Cancel Help

Tableau Inner Join

dwh_OrderDetails is made of 3 tables. ⓘ

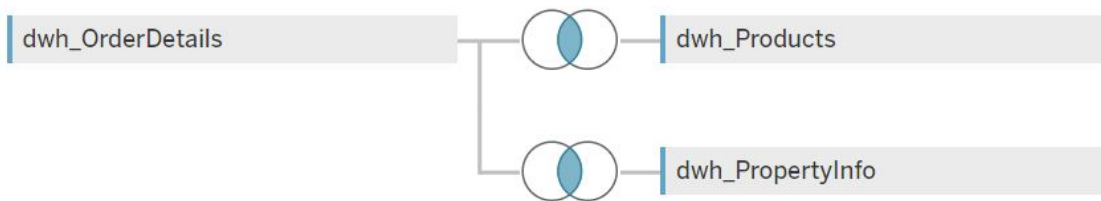
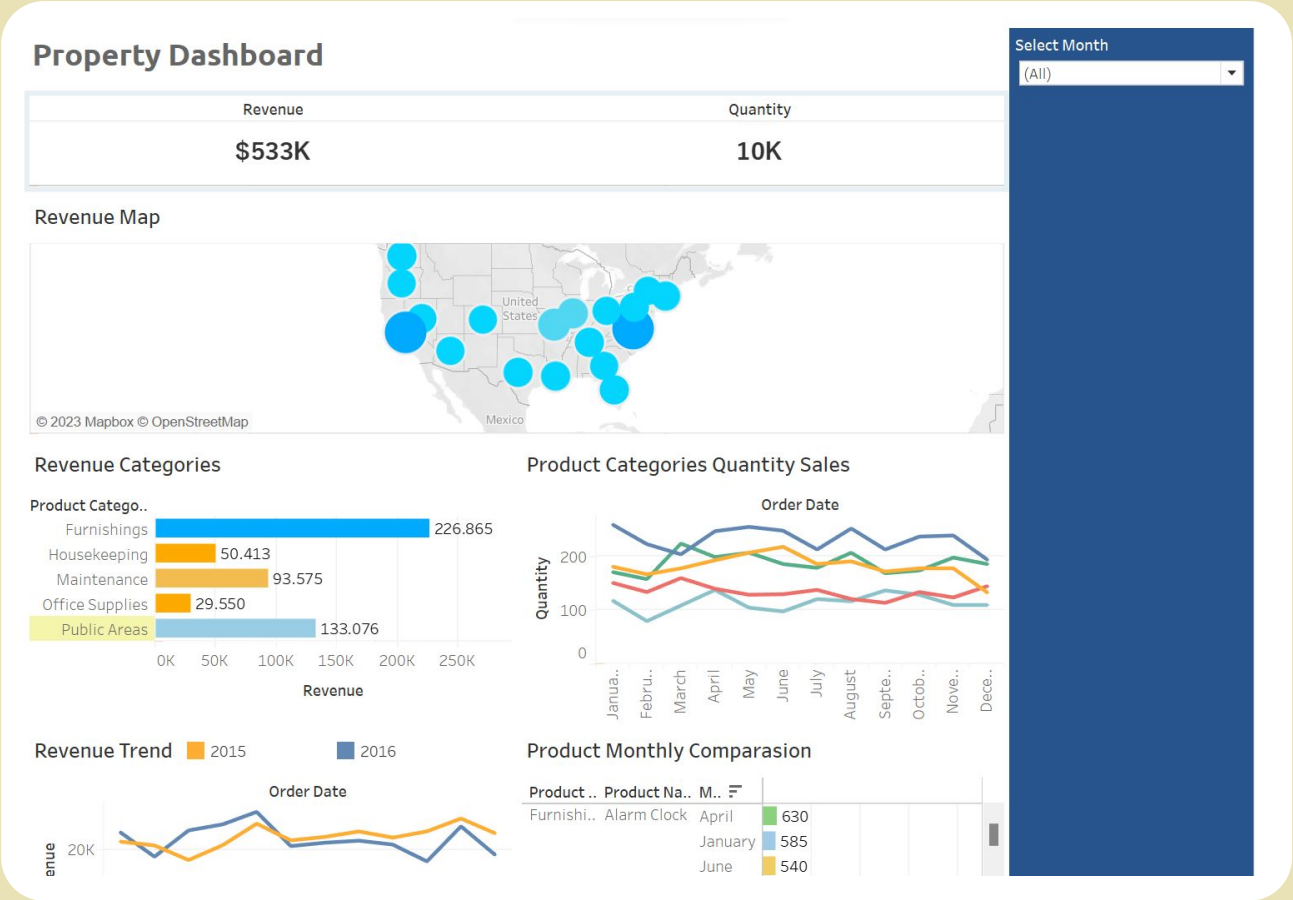


Tableau interface showing the 'Table Details' pane on the left and a data table with 13 fields and 5000 rows. The table displays data for 'dwh_OrderDetails' joined with 'dwh_Products' and 'dwh_PropertyInfo'.

Order ID	Order Date	Property ID	Product ...	Quantity	ProductID (dwh Products)	Product Name	Product Category	Price	Prop ID	Property City	Property State	Revenue
1	01/01/2015	17	41	1	41	Office Chair	Furnishings	85	17	Las Vegas	Nevada	85
10	02/01/2015	2	61	2	61	Tape Measure	Maintenance	8	2	Cincinnati	Ohio	16
100	16/01/2015	10	24	1	24	Envelopes (Letter)	Office Supplies	24	10	Arlington	Virginia	24
1000	30/05/2015	4	23	3	23	Printer Toner	Office Supplies	85	4	Seattle	Washington	255
1001	30/05/2015	15	37	1	37	Bed (King)	Furnishings	300	15	Chicago	Illinois	300
1002	30/05/2015	8	45	3	45	Computer Desk	Furnishings	102	8	Philadelphia	Pennsylvania	306
1003	30/05/2015	5	24	3	24	Envelopes (Letter)	Office Supplies	24	5	Kansas City	Missouri	72

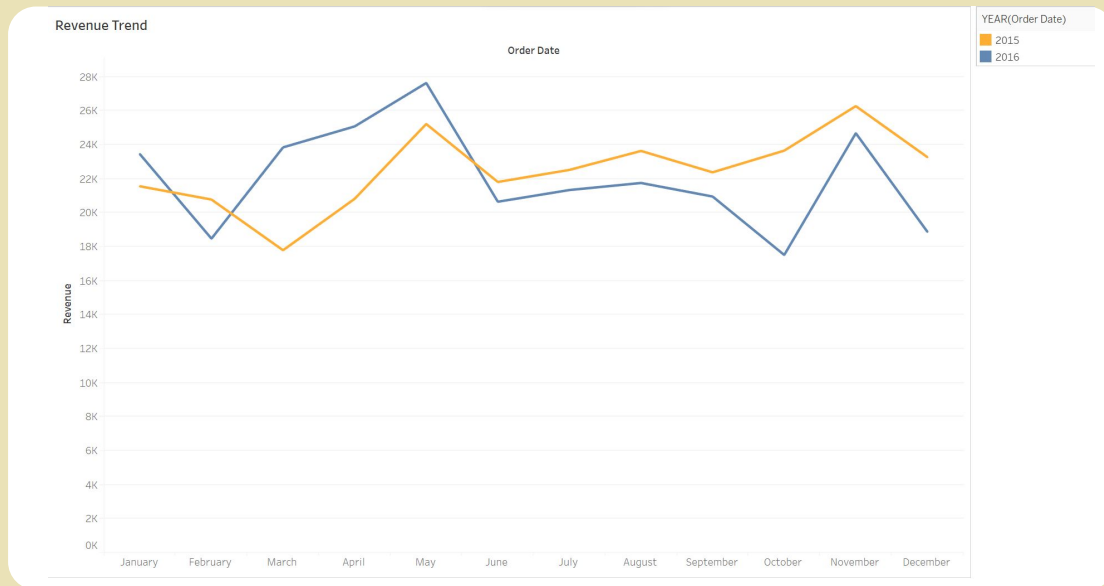
Tableau Dashboard



Select Month

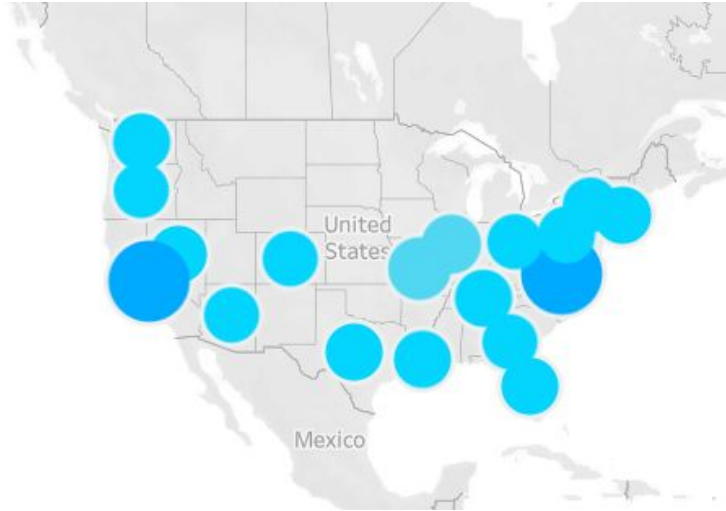
(All)

Revenue Trend



Revenue is relatively stable for 2 years

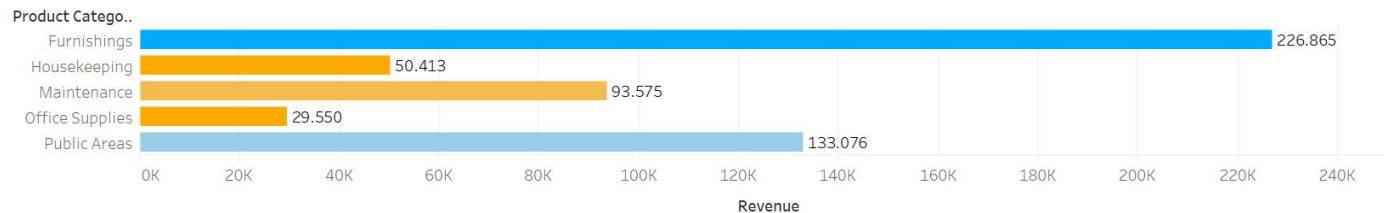
Revenue Map



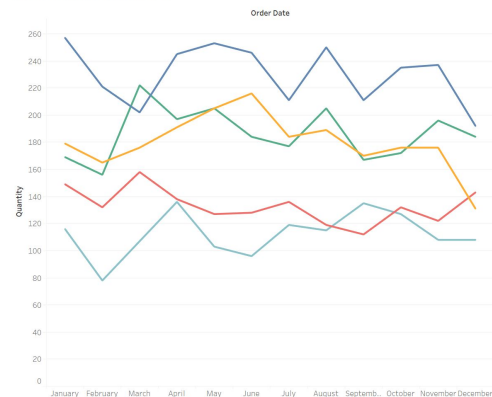
California and Virginia are the biggest revenue

Revenue Product Categories

Revenue Categories



Product Categories Quantity Sales

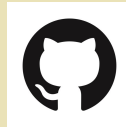


Most of the Revenue is obtained in the furnishing product category
However, the sales Quantity from year to year is quite stable



Muhammad Khairul

Thanks!



Click!