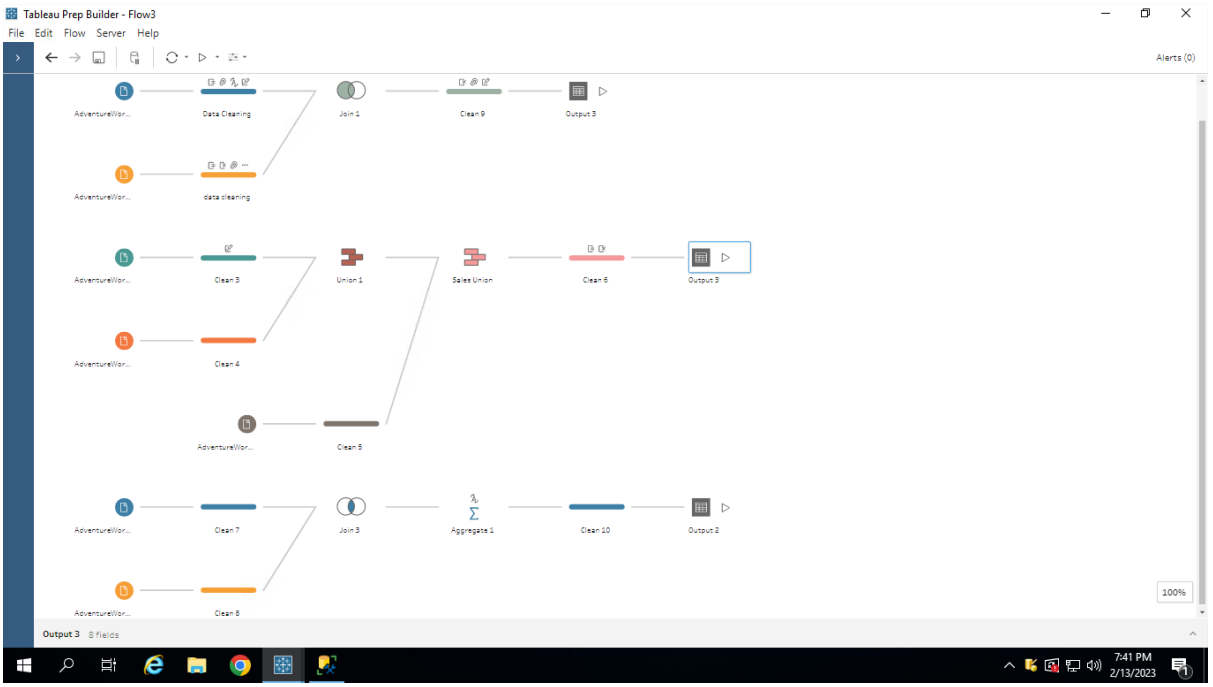
FUNDAMENTALS OF DATA ENGINEERING.

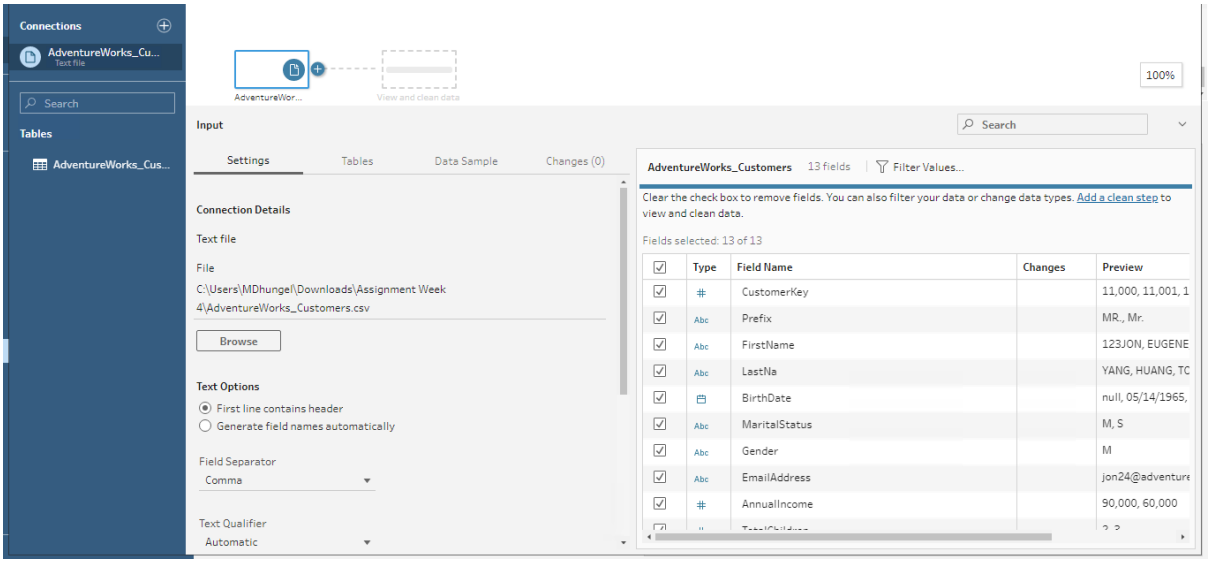
MAHIM DHUNGEL

Overview: ETL Processes in Tableau

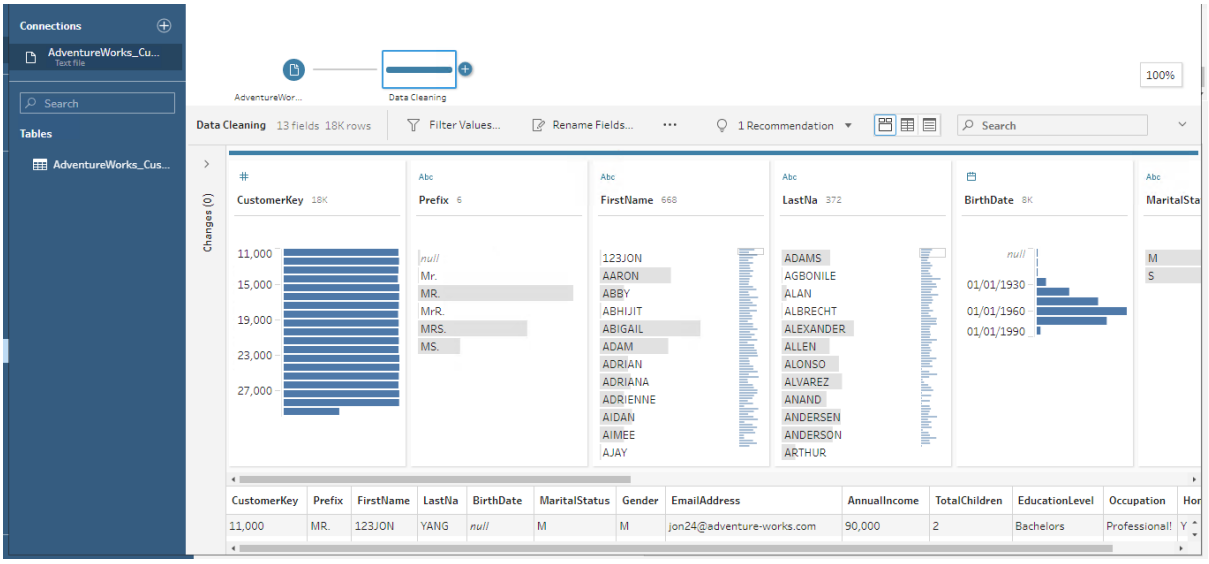


Phase 1

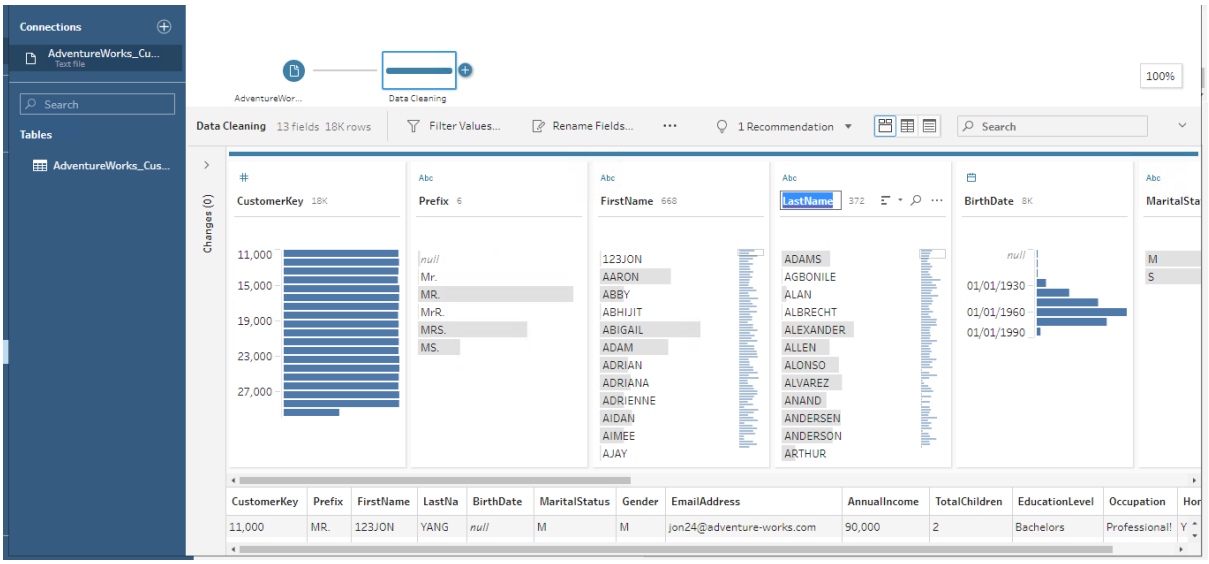
1. Connect to Customer file



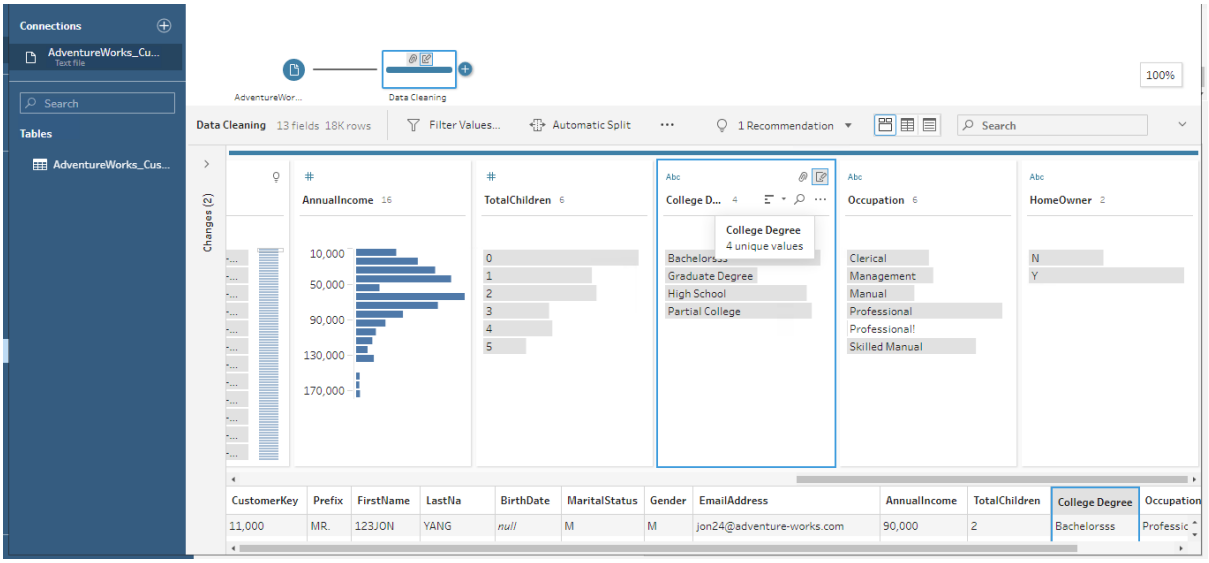
2. Add a “Clean Step



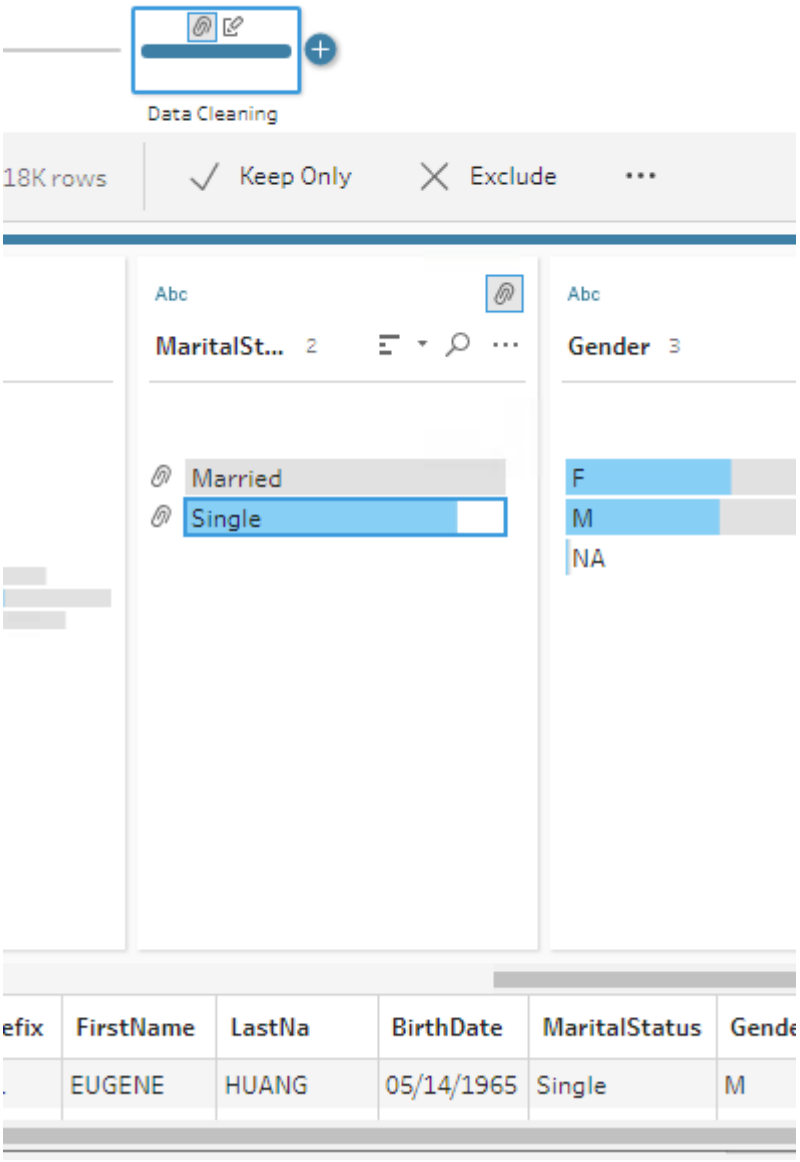
3. Rename Field LastNa to LastName



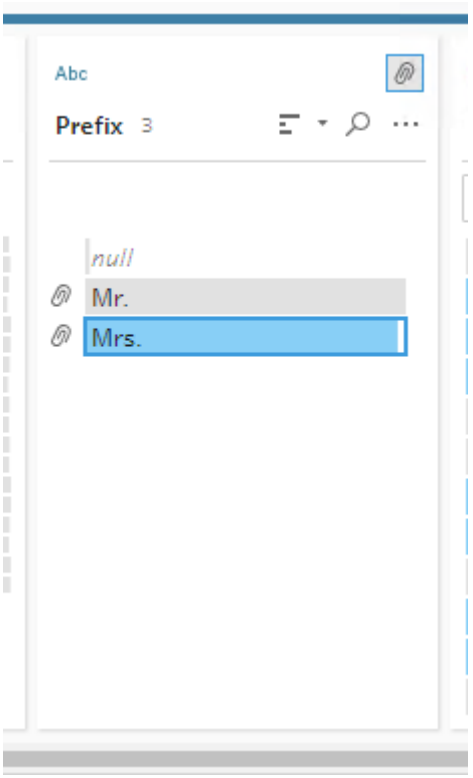
4. Group Education and Replace by College Degree



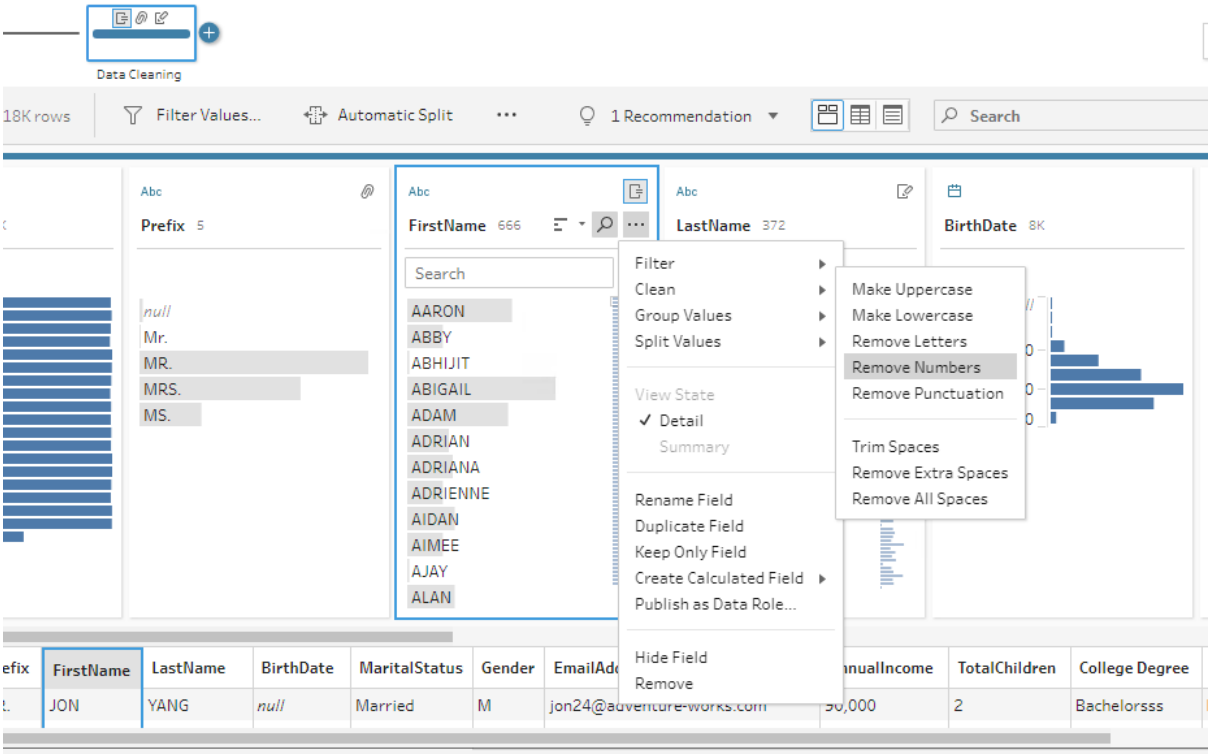
5. Change marital status M and S to “Married” and “Single”



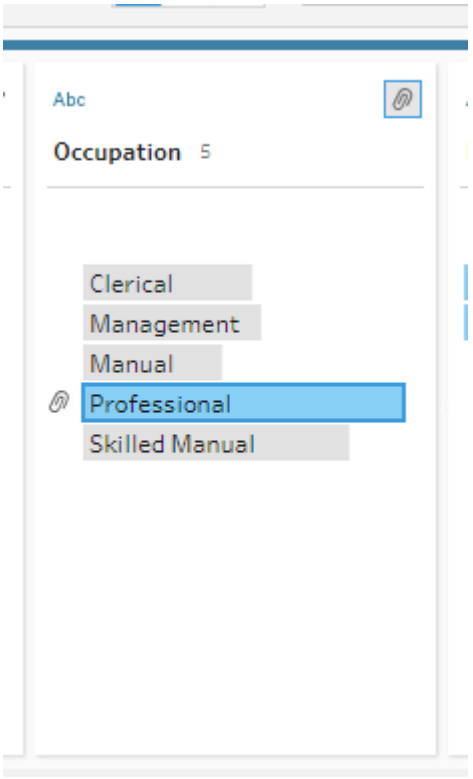
6. Clean Prefix MrR to MR



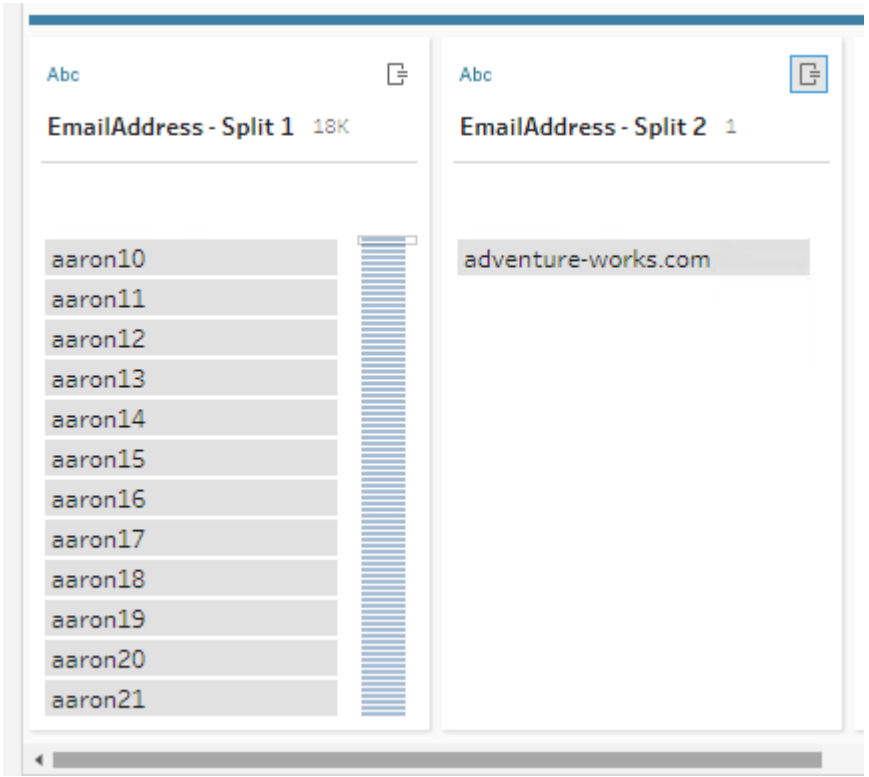
7. Remove Numbers from FirstName



8. Remove punctuations from Occupation

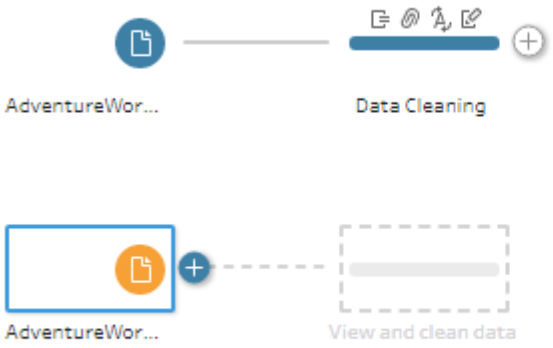


9. Split email address and remove the first letters prior to @

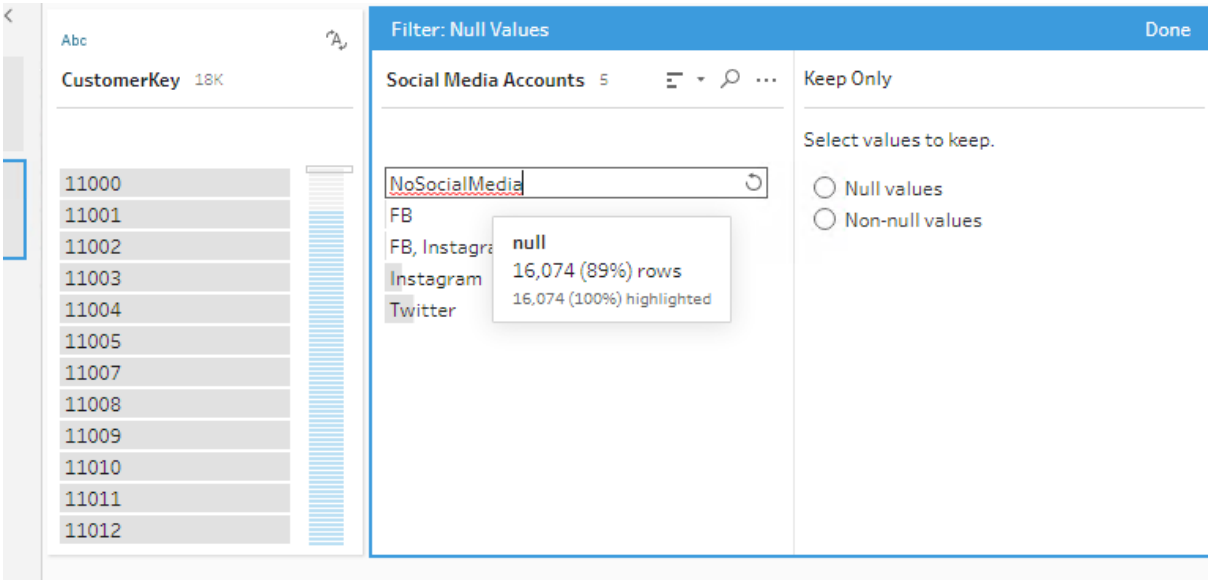


Phase 2

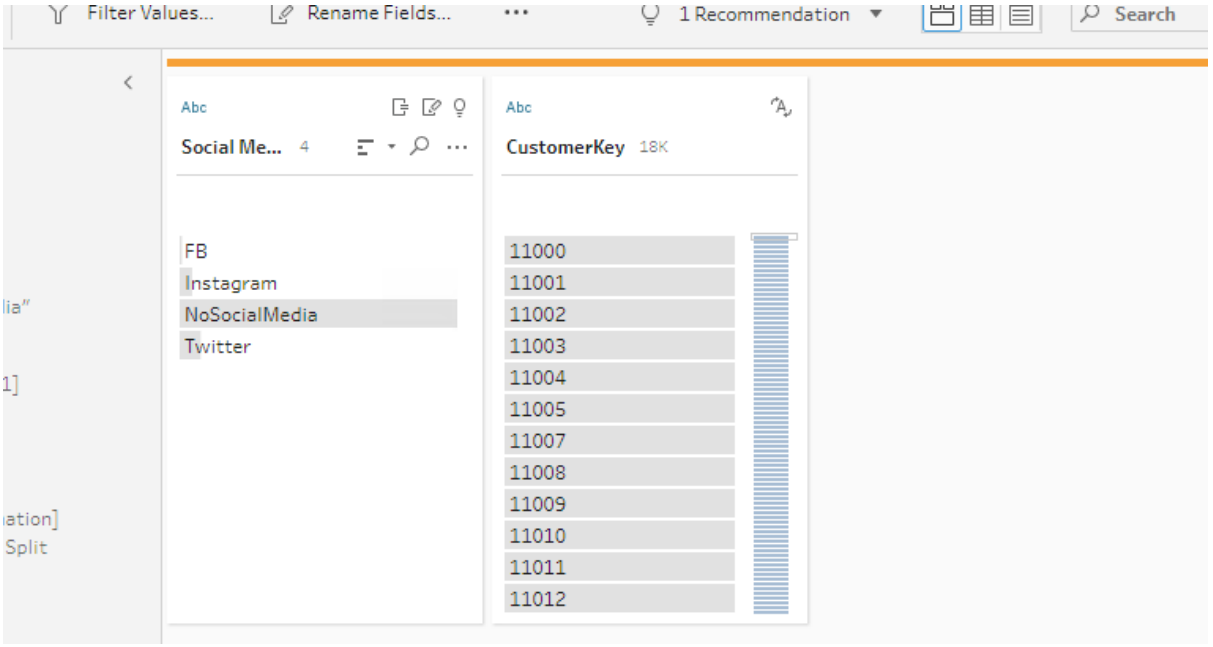
10. Add Adventure Works Customer New file



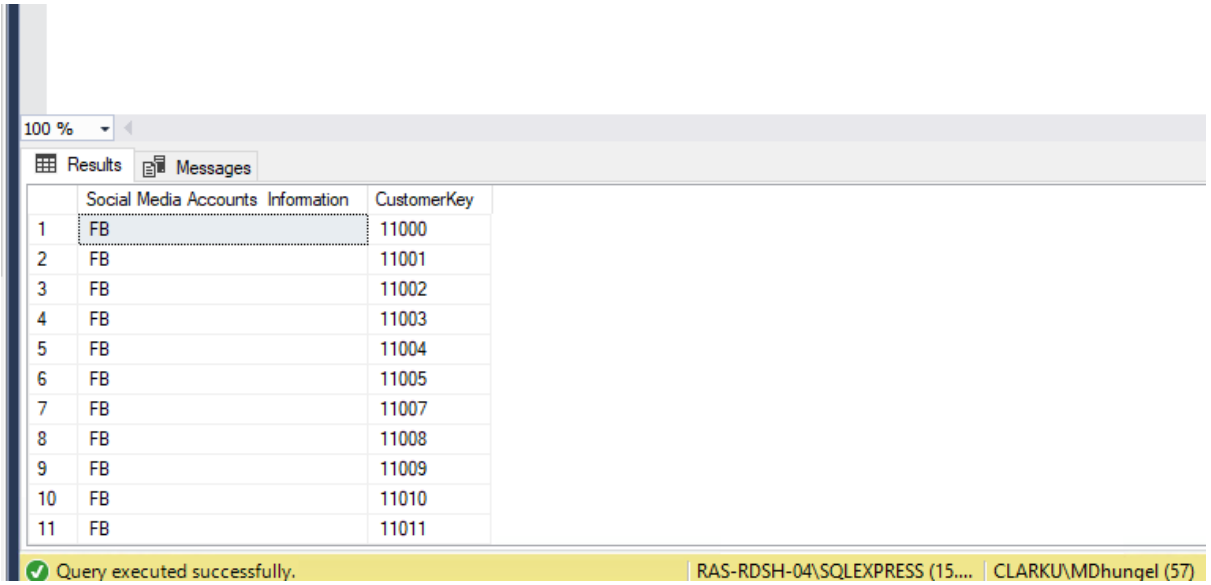
11. Replace Social Media Account Nulls with NoSocialMedia



12. Split Social Media Fields

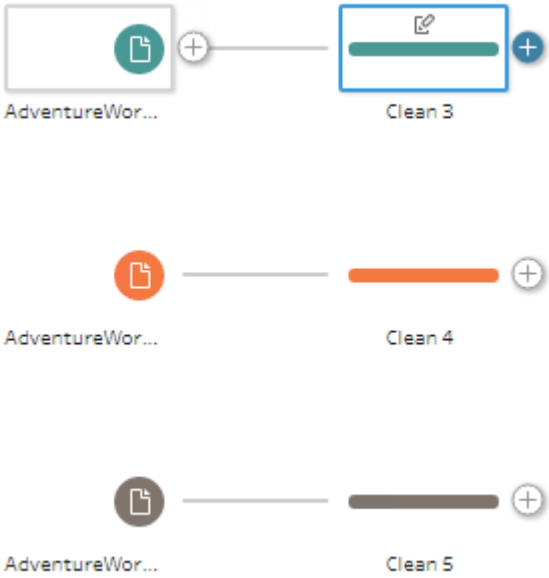


13. Load Data toDimCustomer Tables



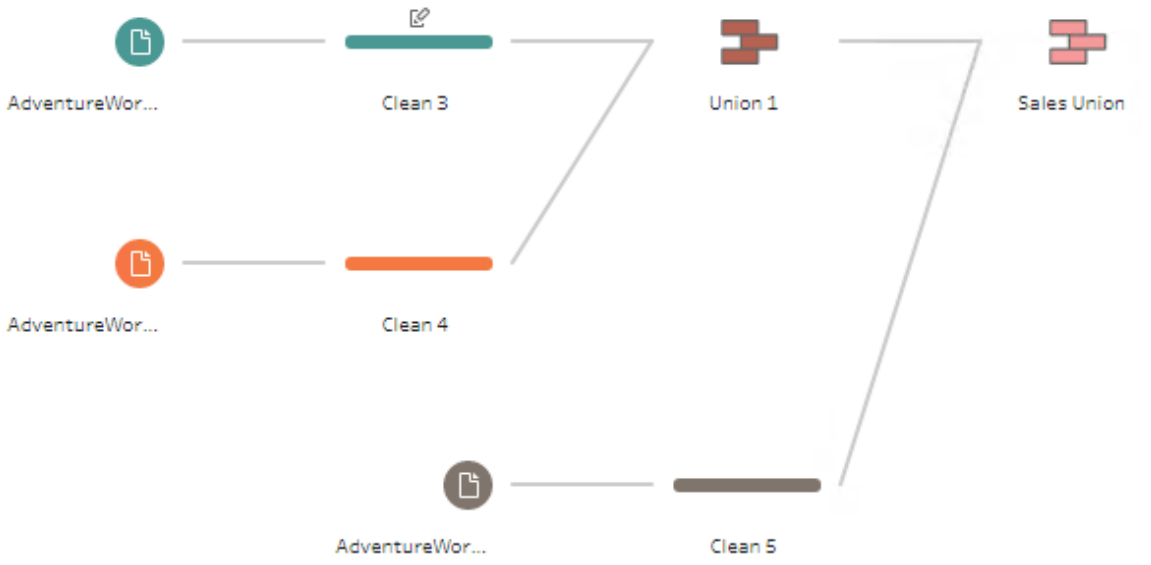
Phase 3

- Add AdventureWorks_Sales_2015
- Add AdventureWorks_Sales_2016
- Add AdventureWorks_Sales_2017

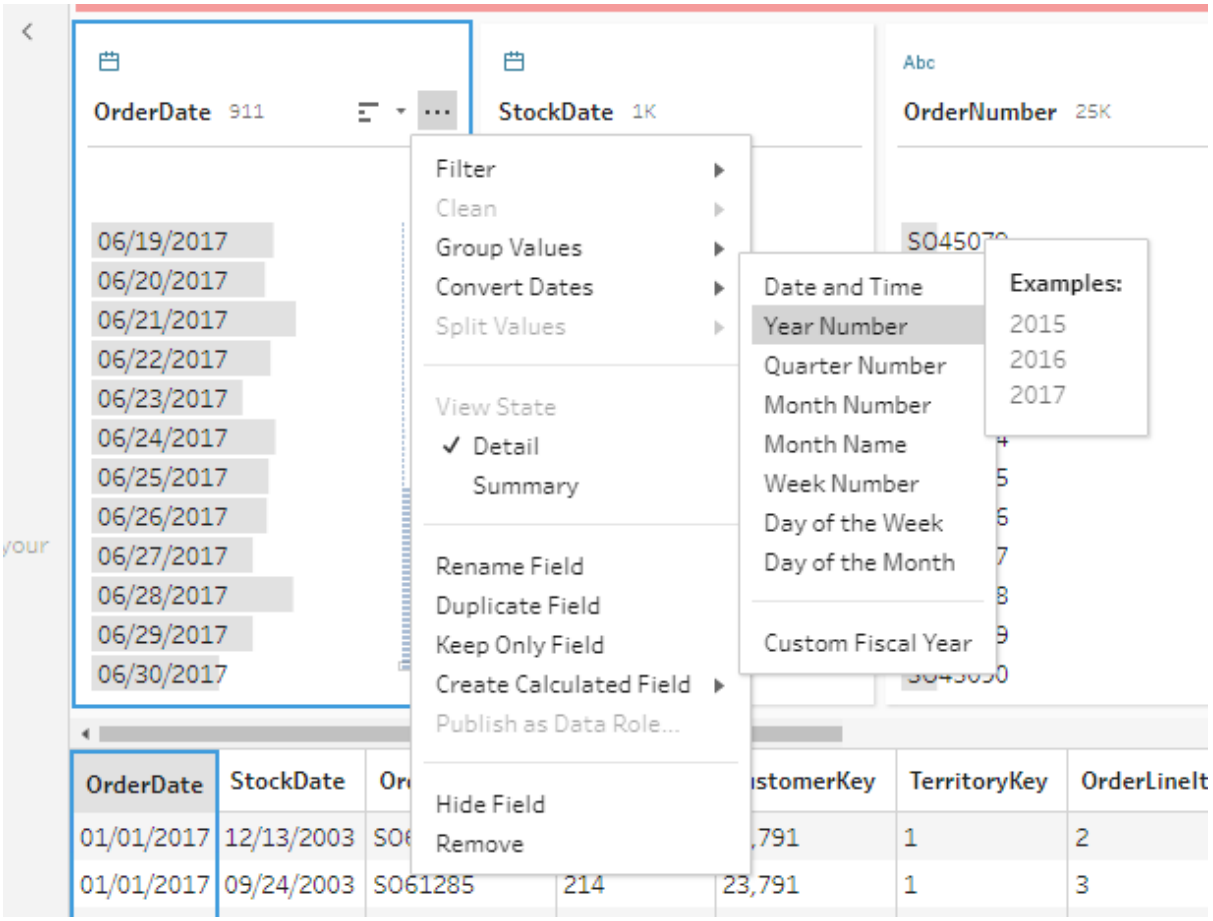


14. Clean OrderQuantity from “Quantite de Ventes” to “OrderQuantity”

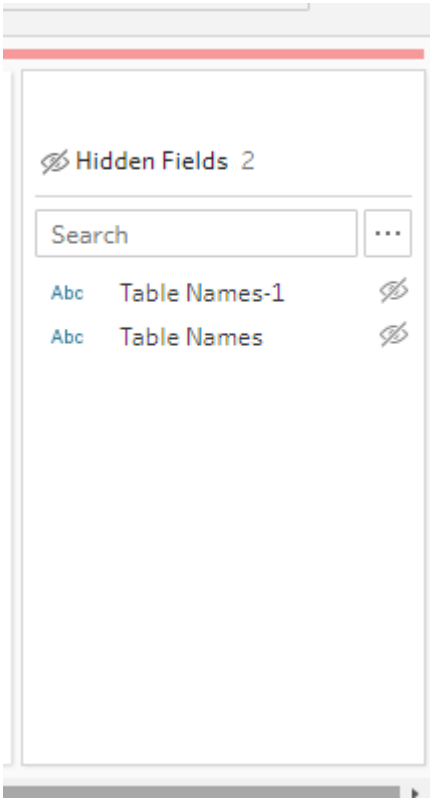
15. Union all three Files



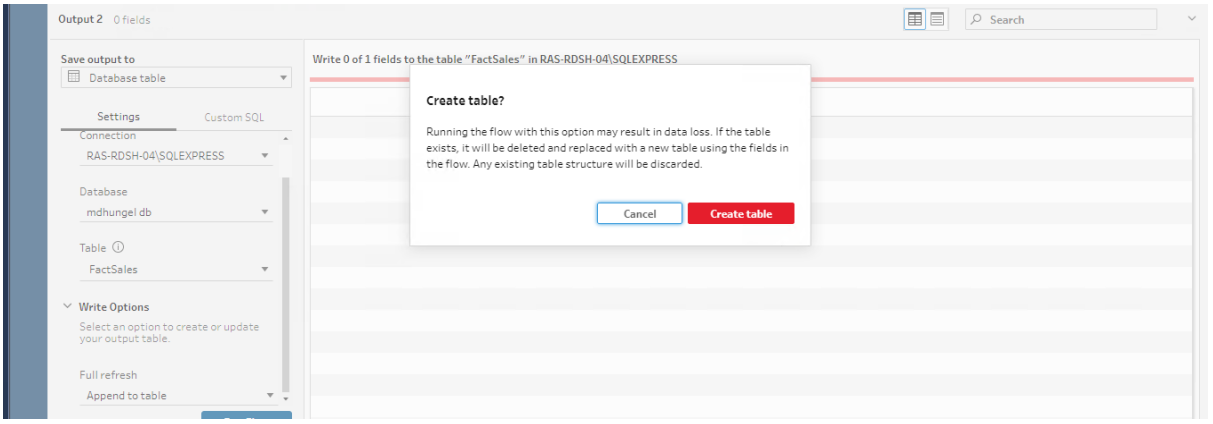
16. Add a calculation to extract "Year" from "Order Date"

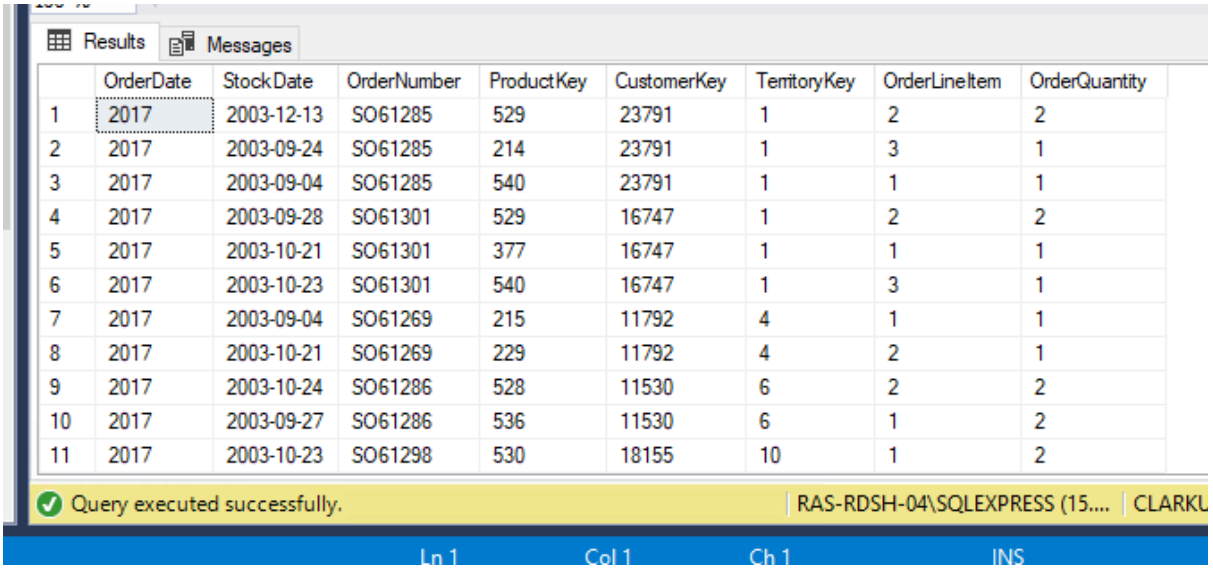


17. Remove Table Names



18. Load Data into FactSales table





Results | Messages

	OrderDate	StockDate	OrderNumber	ProductKey	CustomerKey	TerritoryKey	OrderLineItem	OrderQuantity
1	2017	2003-12-13	SO61285	529	23791	1	2	2
2	2017	2003-09-24	SO61285	214	23791	1	3	1
3	2017	2003-09-04	SO61285	540	23791	1	1	1
4	2017	2003-09-28	SO61301	529	16747	1	2	2
5	2017	2003-10-21	SO61301	377	16747	1	1	1
6	2017	2003-10-23	SO61301	540	16747	1	3	1
7	2017	2003-09-04	SO61269	215	11792	4	1	1
8	2017	2003-10-21	SO61269	229	11792	4	2	1
9	2017	2003-10-24	SO61286	528	11530	6	2	2
10	2017	2003-09-27	SO61286	536	11530	6	1	2
11	2017	2003-10-23	SO61298	530	18155	10	1	2

Query executed successfully. | RAS-RDSH-04\SQLEXPRESS (15.... | CLARKU

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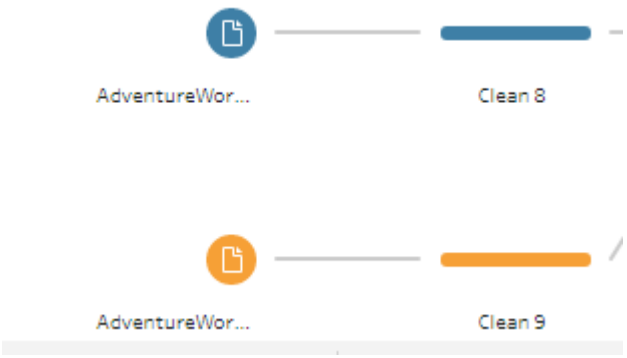
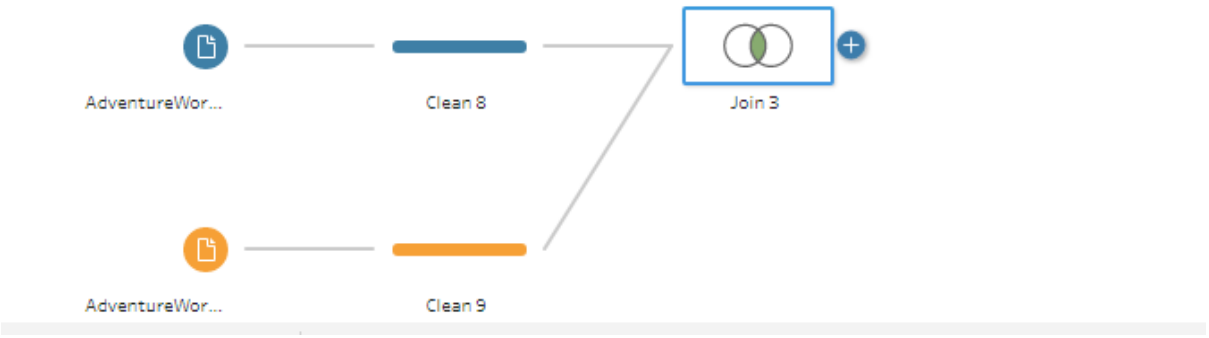
Phase 4

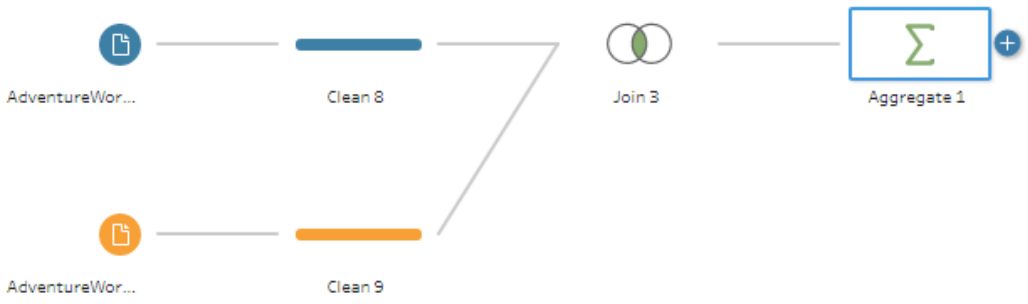
19. Add Returns table and Add Product Table



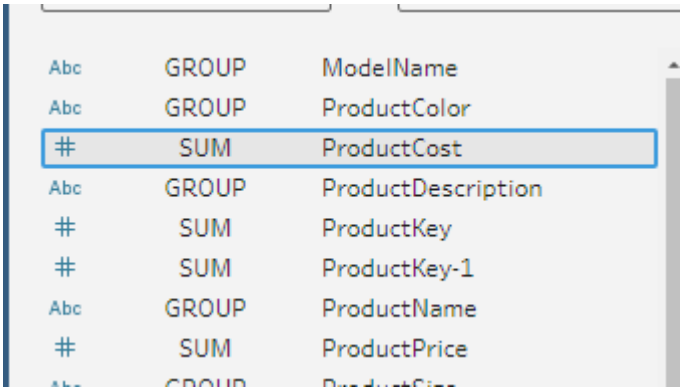
20. Inner Join on Product key



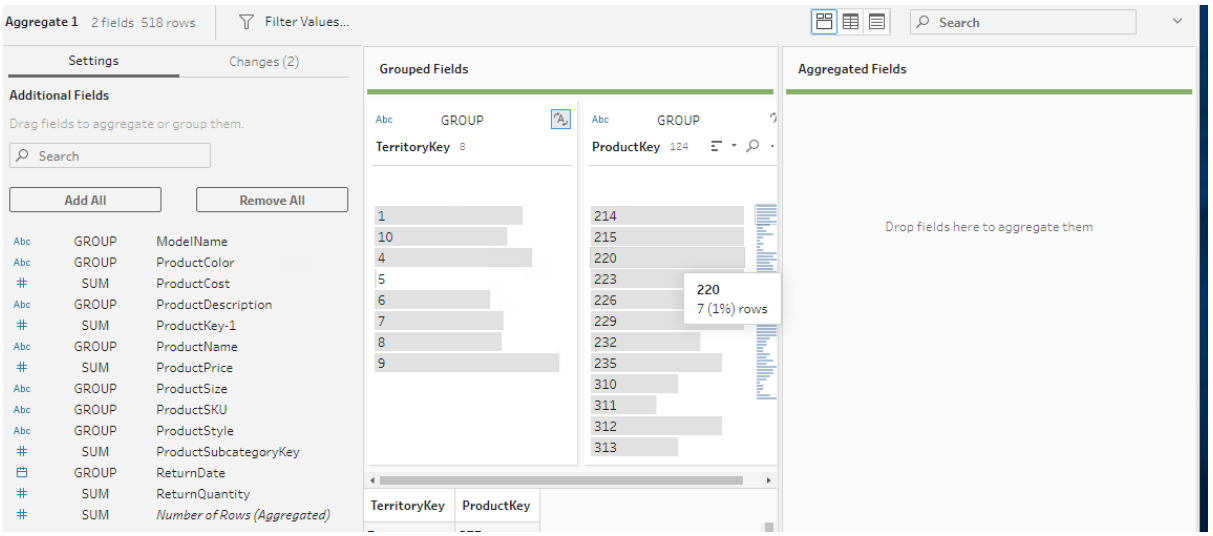
21. Add aggregation



22. Sum of Prices for Product Returns



23. Create a new table with the following columns:
    - Product Key
    - Territory Key



24. Create a new table in the database called DMReturns