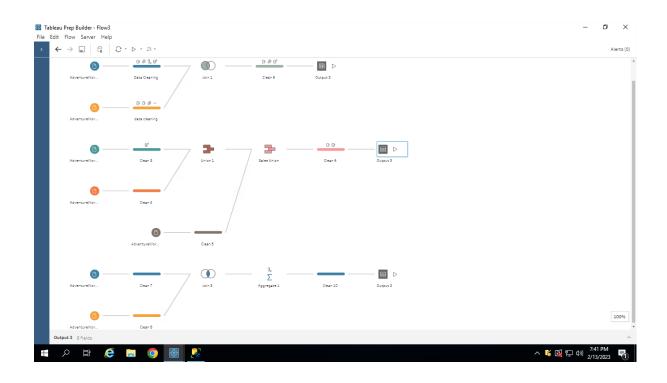
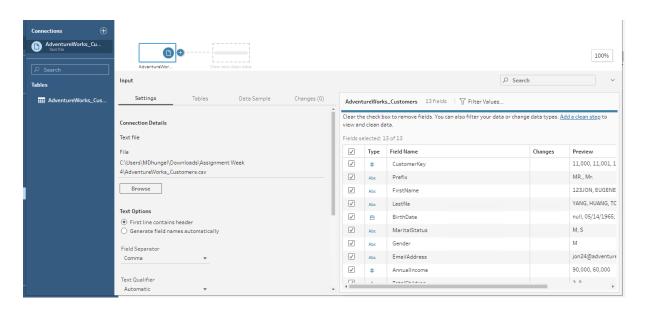
FUNDAMENTALS OF DATA ENGINEERING.

MAHIM DHUNGEL

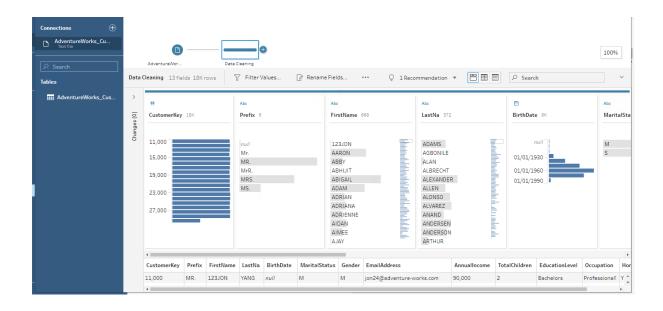
Overview: ETL Processes in Tableau



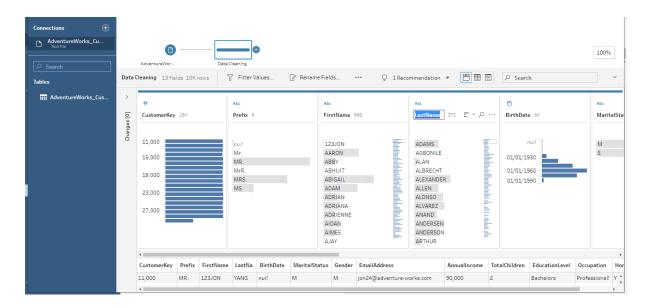
1. Connect to Customer file



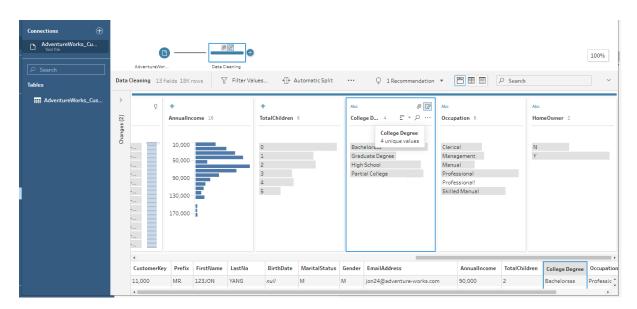
2. Add a "Clean Step



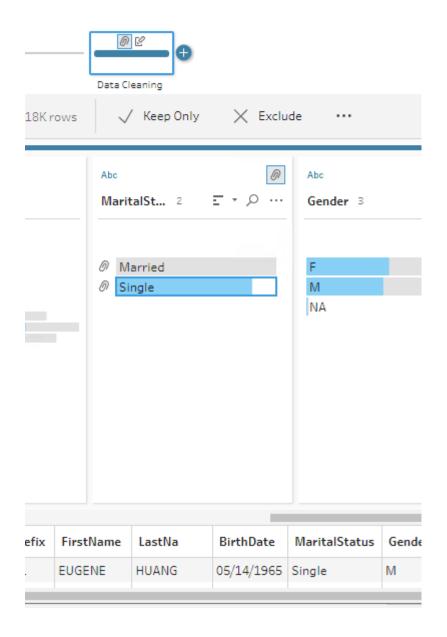
3. Rename Field LastNa to LastName



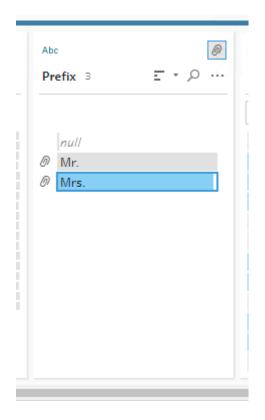
4. Group Education and Replace by College Degree



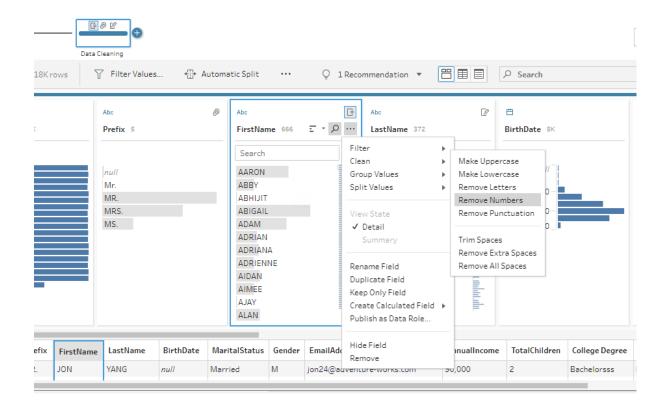
5. Change marital status M and S to "Married" and "Single"



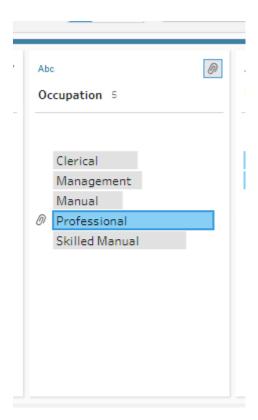
6. Clean Prefix MrR to MR



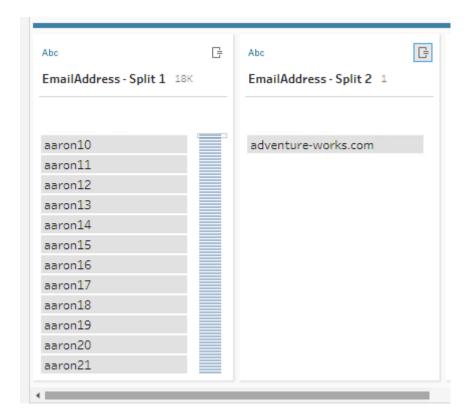
7. Remove Numbers from FirstName



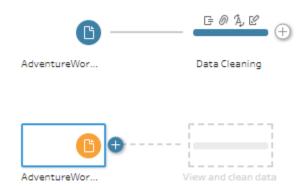
8. Remove punctuations from Occupation



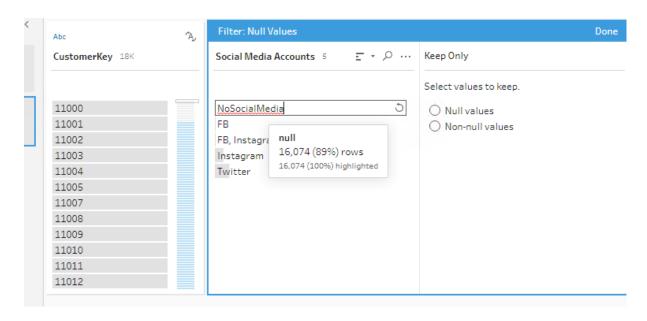
9. Split email address and remove the first letters prior to @



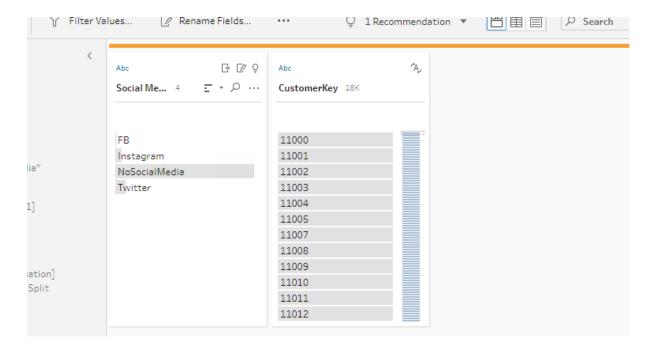
10. Add Adventure Works Customer New file



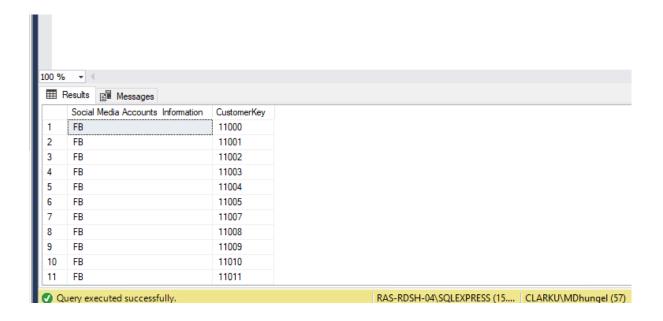
11. Replace Social Media Account Nulls with NoSocialMedia



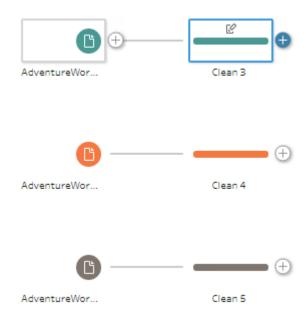
12. Split Social Media Fields



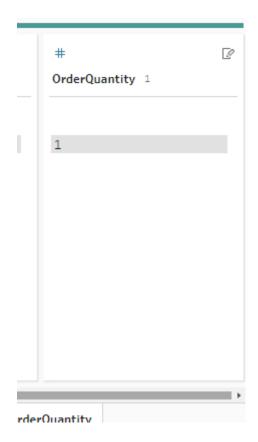
13. Load Data to Dim Customer Tables



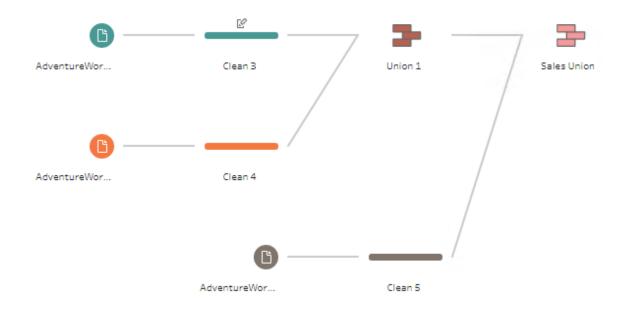
- Add AdventureWorks_Sales_2015
- · Add AdventureWorks_Sales_2016
- · Add AdventureWorks_Sales_2017



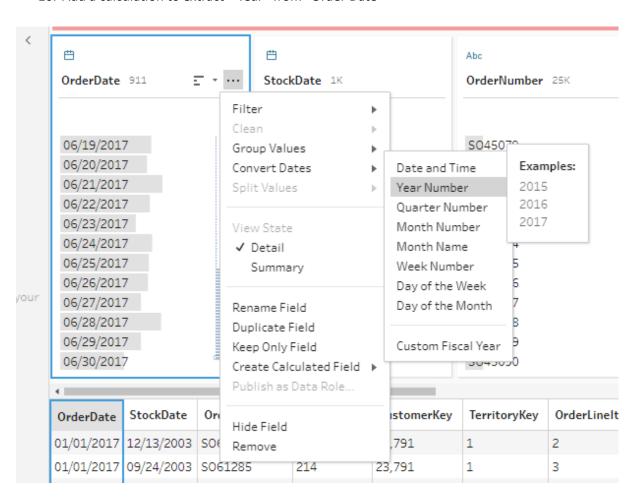
14. Clean OrderQuantity from "Quantite de Ventes" to "OrderQuantity"



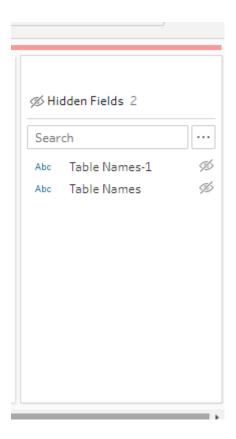
15. Union all three Files



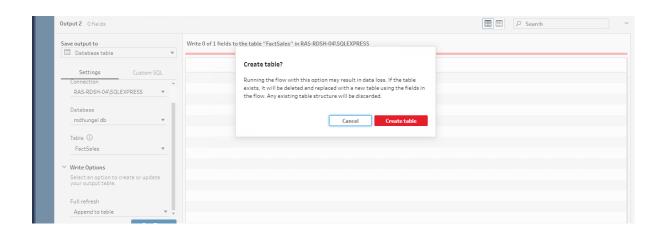
16. Add a calculation to extract "Year" from "Order Date"



17. Remove Table Names

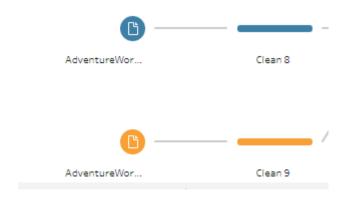


18. Load Data into FactSales table



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

19. Add Returns table and Add Product Table



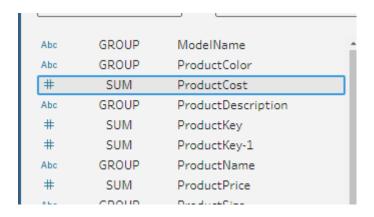
20. Inner Join on Product key



21. Add aggregation

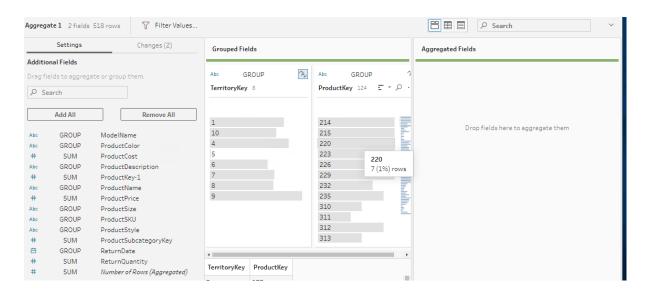


22. Sum of Prices for Product Returns



23. Create a new table with the following columns:

- Product Key
- · Territory Key



24. Create a new table in the database called DMReturns

