TIETOEVRY – DATABASE – FINAL ASSESSMENT

SWEEKAR K T/EI13047

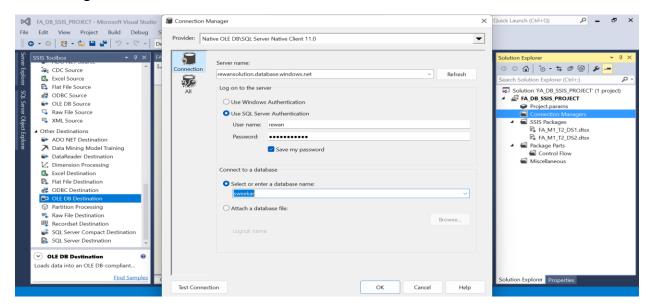
Module 2 SSIS: 20 Points

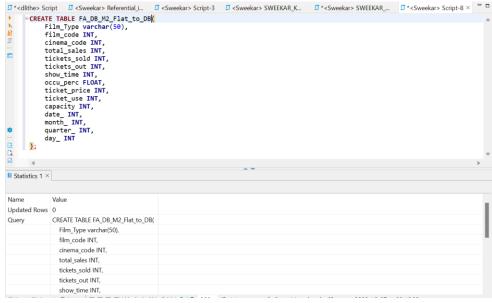
Entry criteria: Transactions tables created in Module 1, task 2

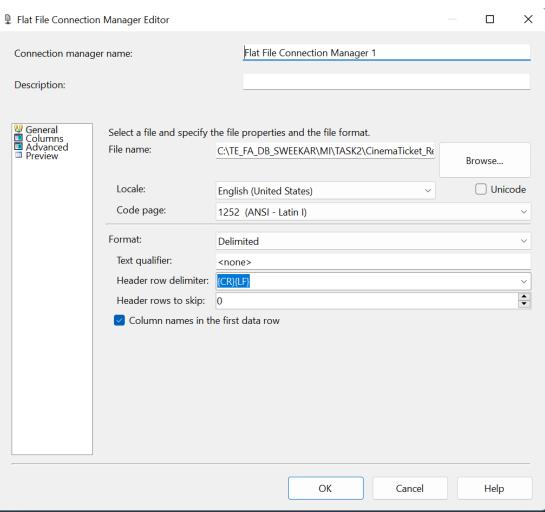
1. Make connection to different data source (Oracle DB, Flat file, SQL Server)

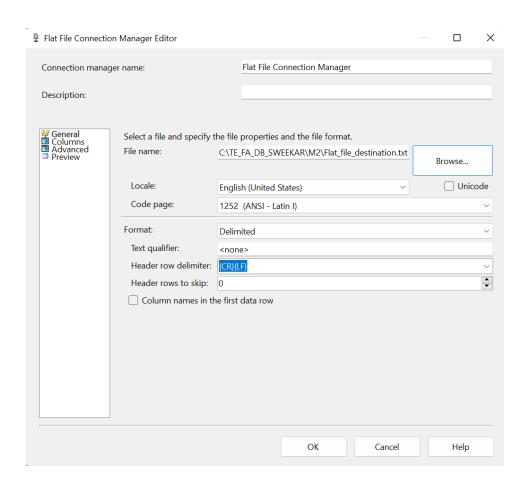
Data Sources: Car Sales and Film

First adding SQL server to oledb connections in SSIS

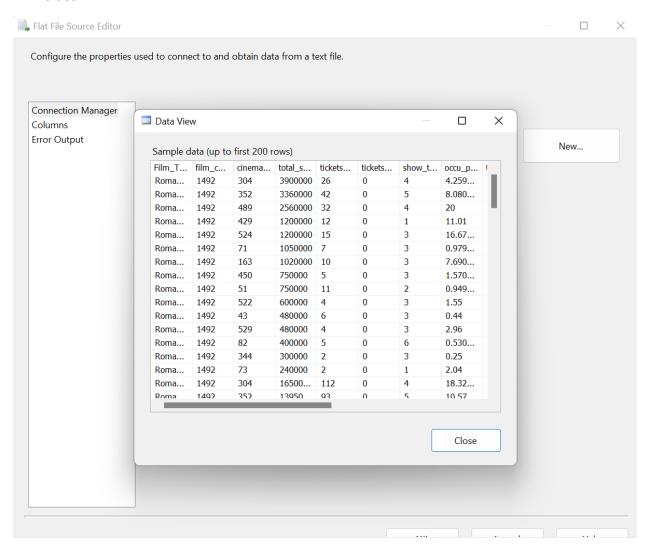




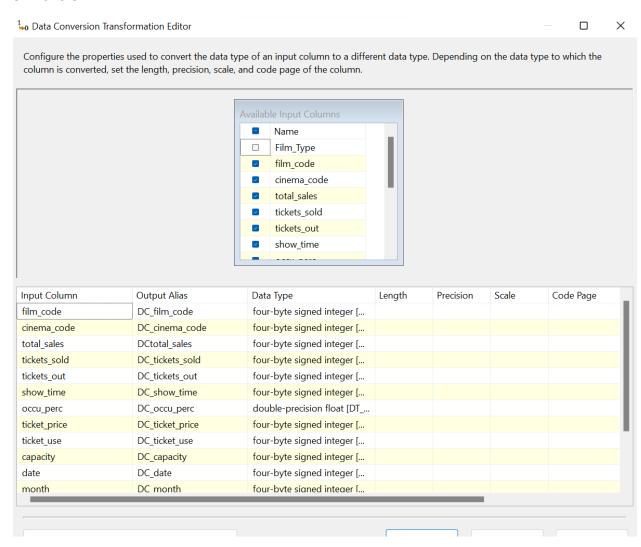




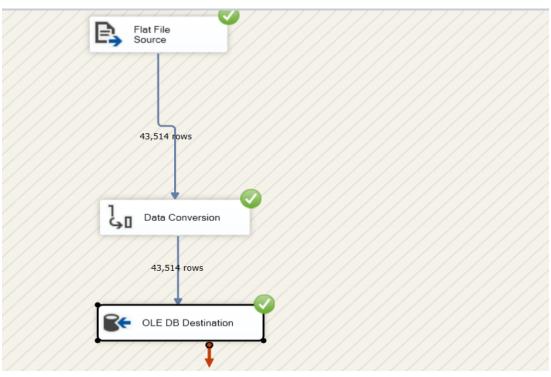
2. Extract

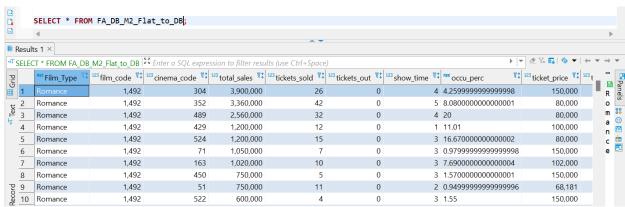


3. Transform

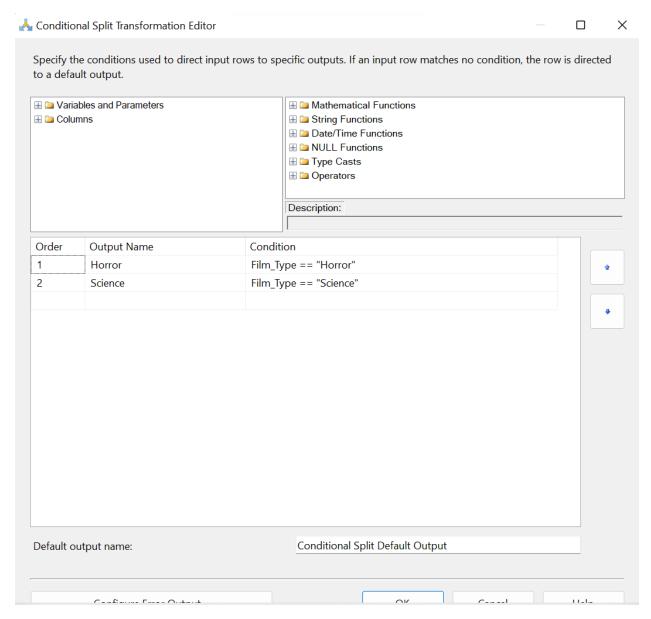


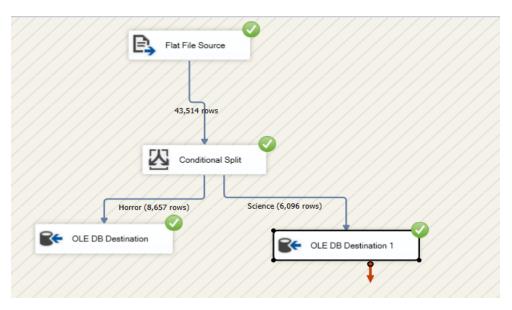
4. Load to new target system - SQL Server

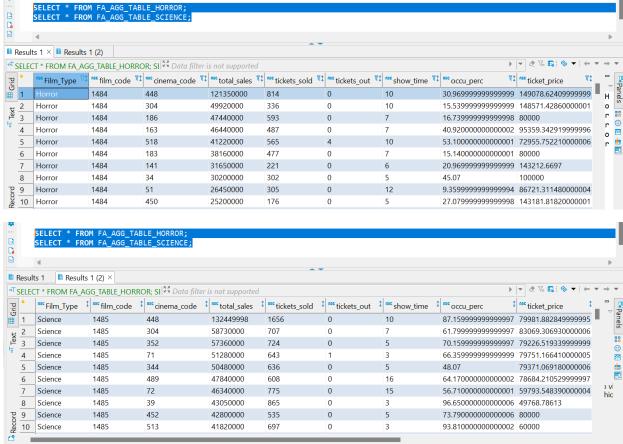




Here I am creating seperate tables based on Film type column using conditional split, considering that different teams are reviewing the different film types.



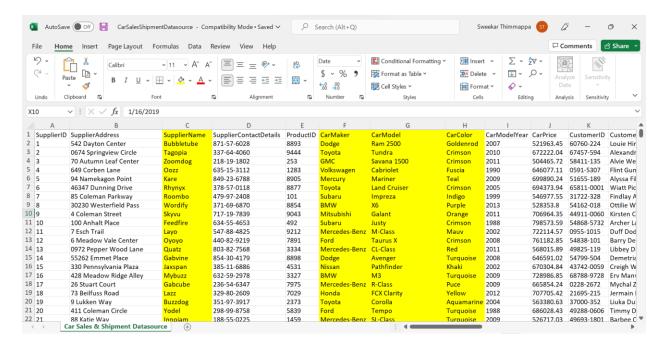




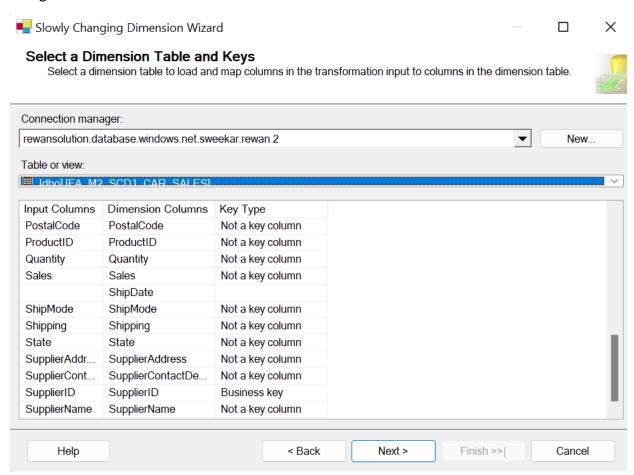
93.810000000000002 60000

5. Perform SCD 1 & Damp; SCD2 dimension table modelling

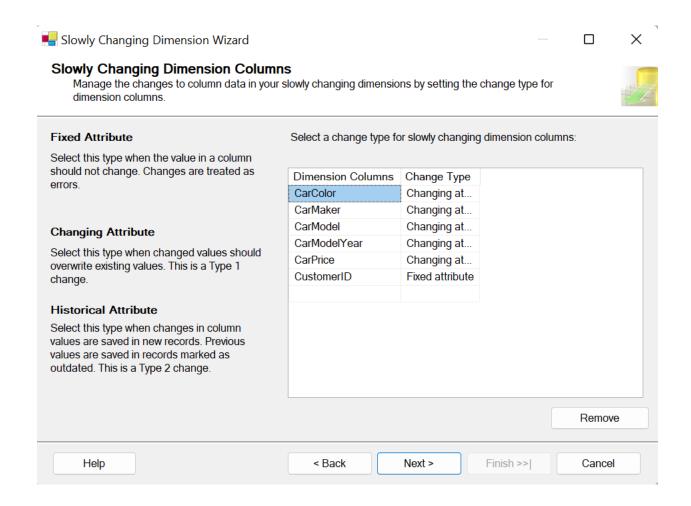
SCD TYPE 1



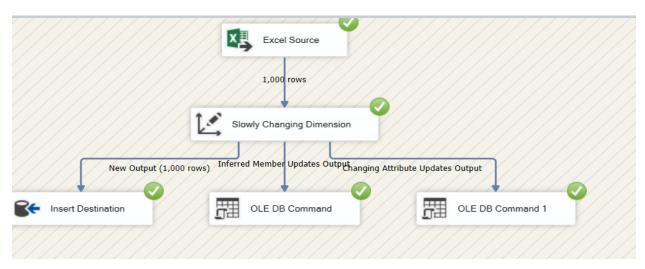
I have specified Supplier ID as the business key. Therefore, if the supplier ID changes then that row gets inserted into the destination.

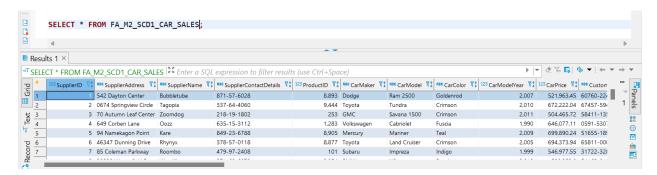


I have given the columns in the below picture as changing attributed and if any of those values change for the existing supplier ID then the change gets updated.



As we can see below all the 1000 rows are transferred to the destination

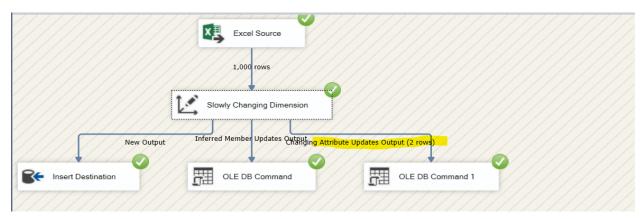


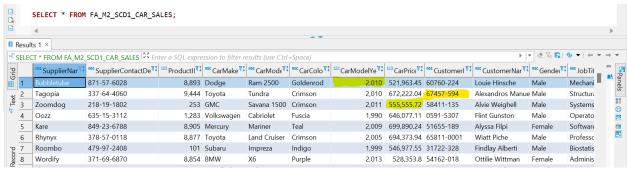


Now I'll make some changes in the source



I had made changes in 3 rows but only 2 rows got updated because I had specified that Customer ID as fixed attribute, so it won't get updated.





SCD TYPE 2

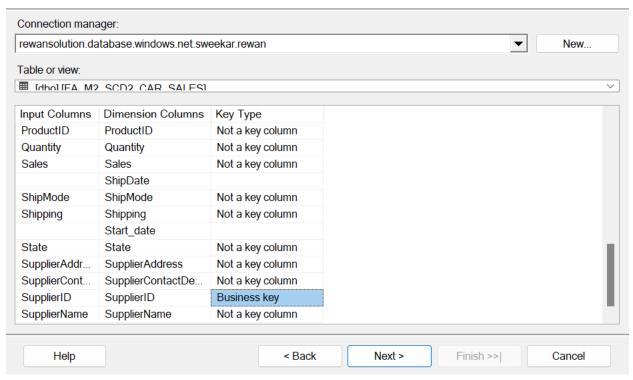


Select a Dimension Table and Keys

Select a dimension table to load and map columns in the transformation input to columns in the dimension table.



X



■ Slowly Changing Dimension Wizard						
Slowly Changing Di Manage the changes dimension columns.		ns slowly changing dimensio	ons by setting the cha	ange type for		
Fixed Attribute		Select a change type for slowly changing dimension columns:				
Select this type when the v	alue in a column					
should not change. Changes errors.	es are treated as	Dimension Columns	Change Type			
		CustomerAddress	Historical att			
		CustomerName	Historical att			
Changing Attribute		PhoneNumber	Historical att			
Select this type when chan overwrite existing values. The change.	•					
Historical Attribute						
Select this type when chan values are saved in new records outdated. This is a Type 2 of	cords. Previous s marked as					

< Back

Next >

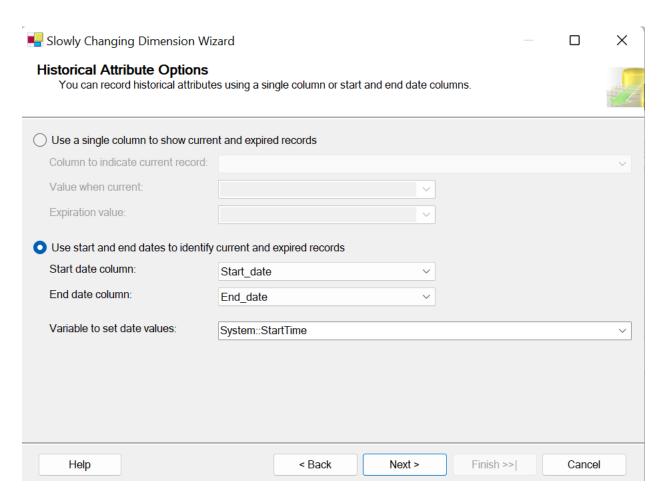
Finish >>|

Help

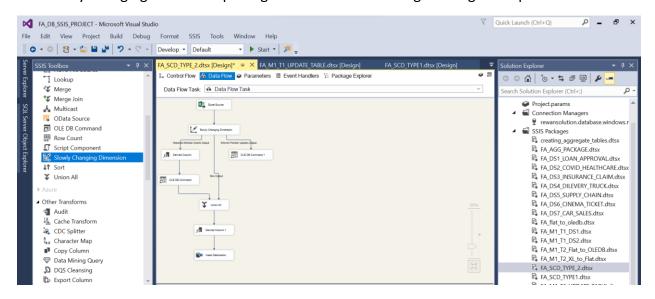
Remove

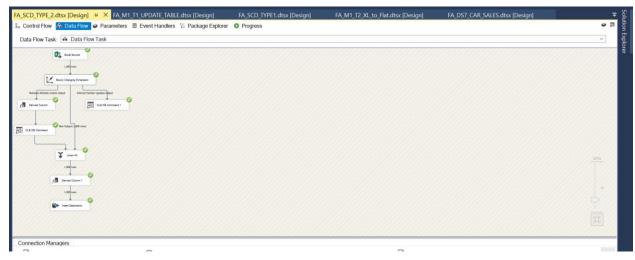
Cancel

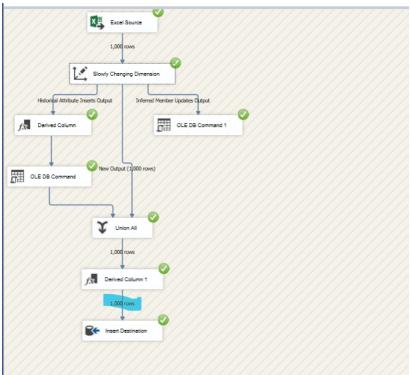
I am using start date and time and end date and time to identify the current and expired records, if the end date is null then the row is active.

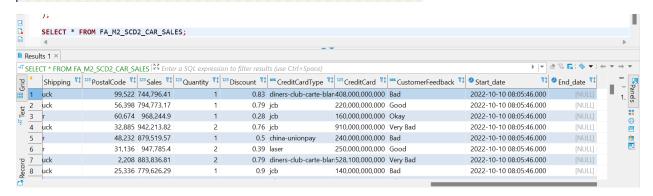


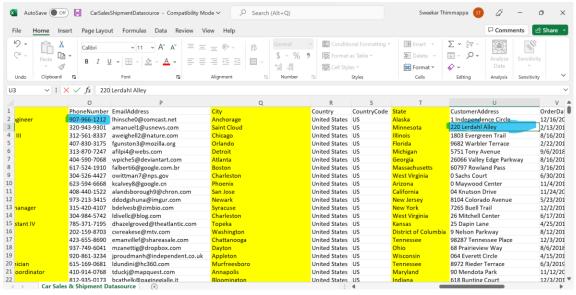
The slowly changing dimension package builds itself according to our given inputs

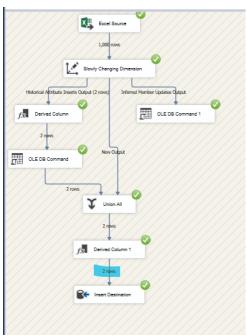


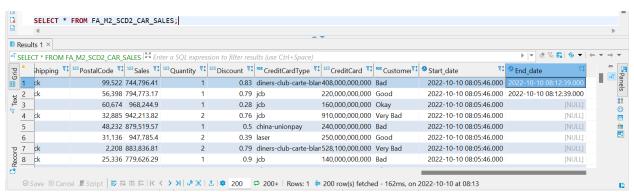












6. Create aggregate table based on the particular column (ex: Country code). Refer to the different data source from target system

