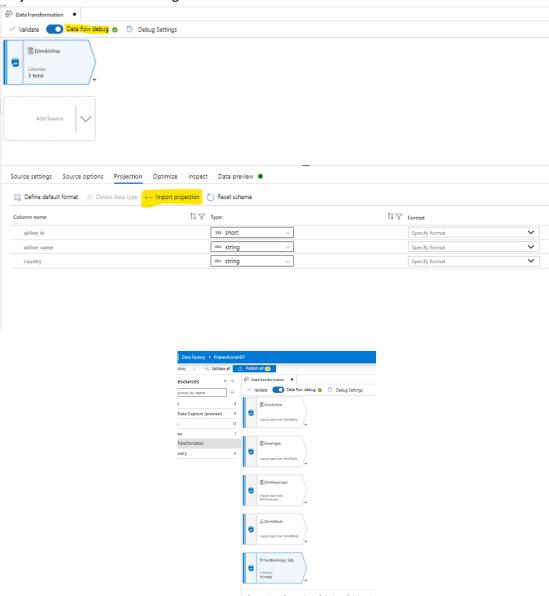
<u>Project Documentation – Data Flow Transformations (Silver Layer Load)</u>

Steps Followed:

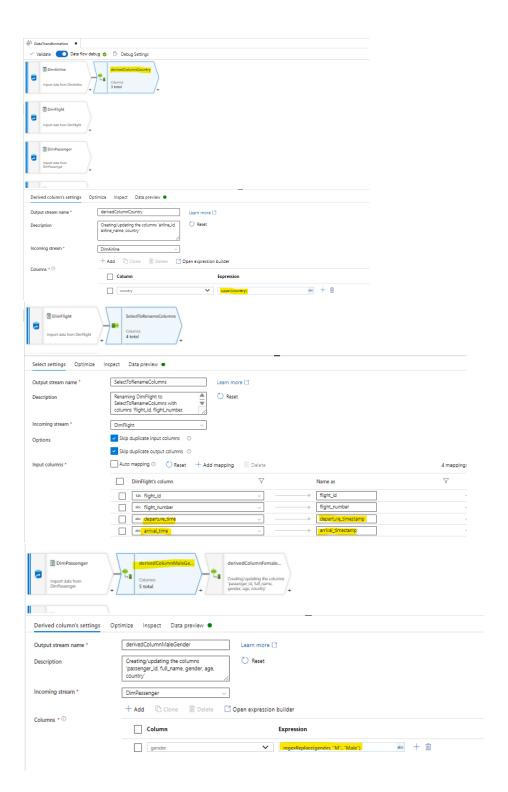
1. Now we have our data in bronze layer from all the Sources so we will populate data in our silver and gold layer, and we will perform some transformations on the data. So, we use data flow for this.

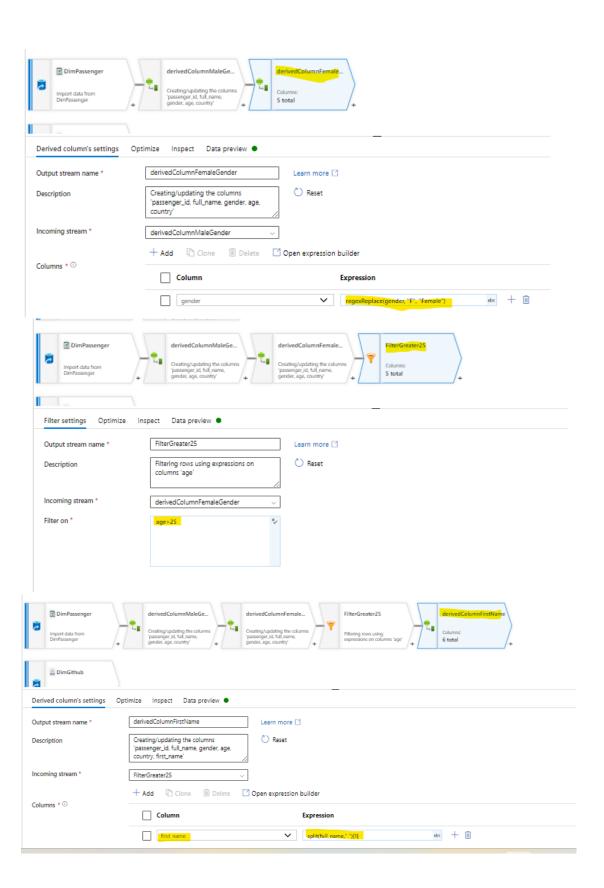
We will add our bronze data from container in the sources using existing/by creating new datasets to read the data files.

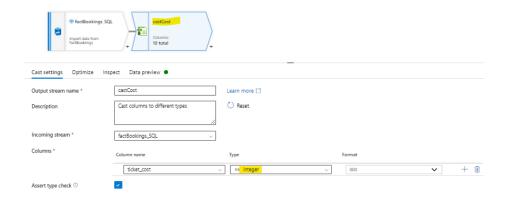
Also, turn on Data flow debug to see your data schema, perform transformations, etc. Also, whenever we perform any transformations on our source to see the output, we must Import Projections on our source to get the schema and data.



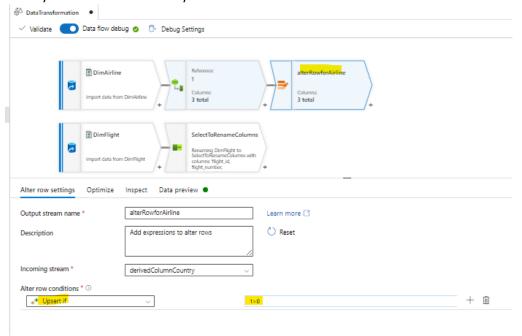
2. Now we can add our transformations using Dataflow, for example:





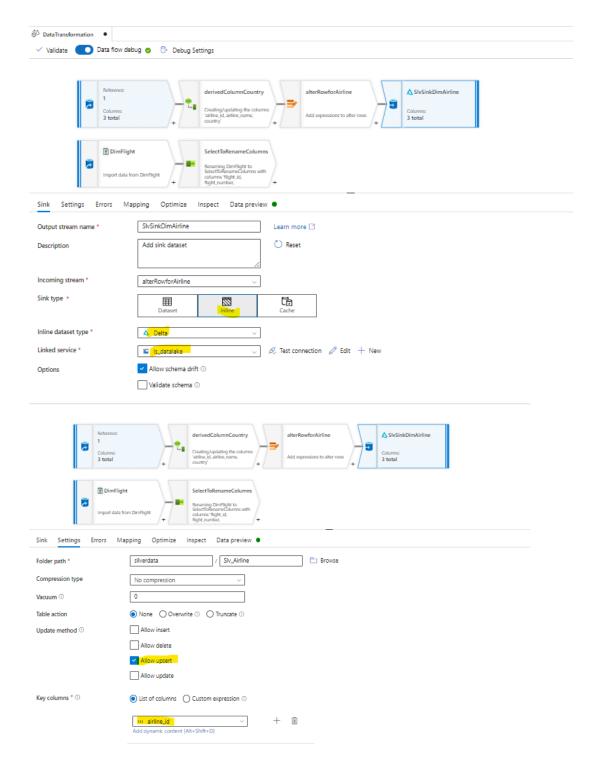


3. Now we want to write our data to the silver layer, and we want to maintain Upsert logic every time we load data to silver using our Data flow. To upsert we need to add an alter activity before our sink activity.



Under the Alter row condition, we chose Upsert, and we need to give a condition usually basis which our upsert will happen (ex: Upsert should happen for all records where Airline <> 'Air India', but usually we do all filtering before the upsert, so we will put a pseudo condition like 1>0, which will always be true and hence upsert will happen on all of our data.

4. Now we will create a Sink Activity, and in this Sink for Sink type we will Choose Inline (Since Inline support delta), and Inline Dataset type will be "Delta" as our choice. Also in our Sink Settings, we will add the PK column used for Upsert and select Update Method as "Allow Upsert"



5. Once our data flow is ready, we go to Pipelines and create a new Pipeline. In this pipeline we will add a dataflow activity and then configure our dataflow and its ready for Silver load.

