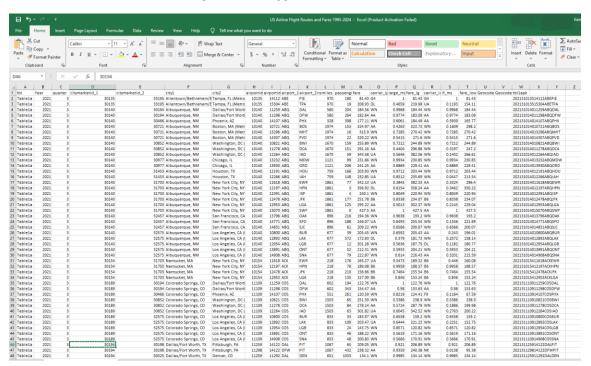
Azure Data Factory Project:

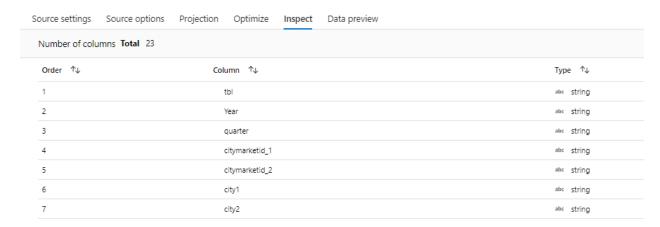
Dataflow project – Created a Dataflow to Filter, Select and sort by year and save in the storage



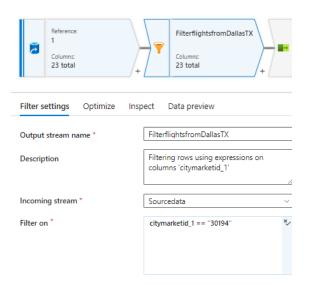
1. Taken a dataset of US flights from kaggle see screenshot below.



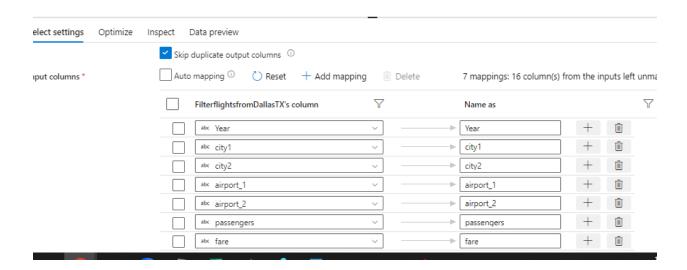
2. Uploaded the above to ADLS storage and added to the source and checked schema for the data.



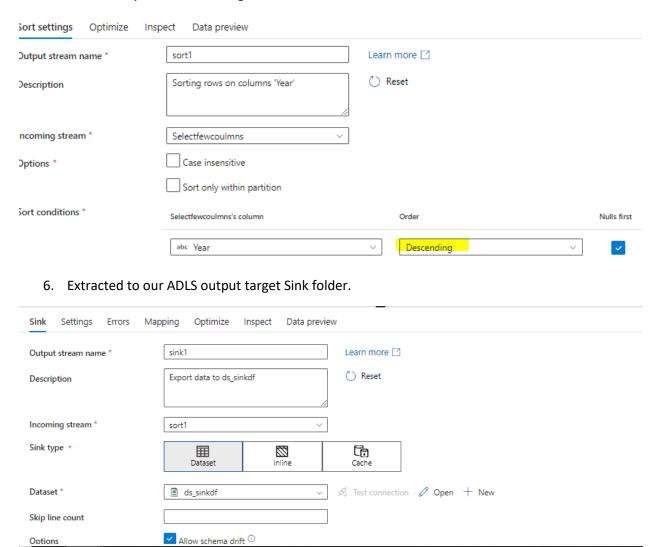
3. Applied filter to see only flights Starting from Dallas Texas (applied filter for column citymarketid_1 == 30194)



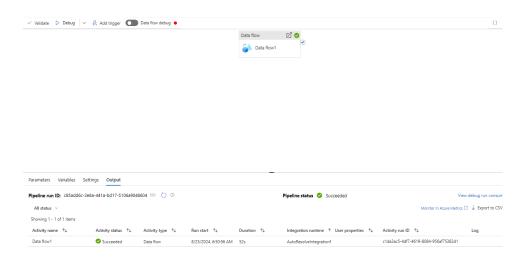
4. Used Select command and narrowed down the columns and selected only columns Year, city 1, city 2, airport 1, airport2, passengers, fare,.



5. Sorted the year in descending order.

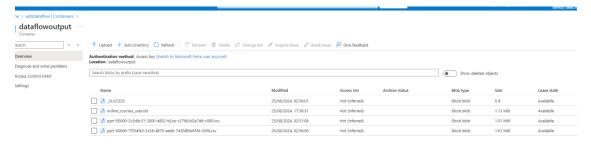


7. Executed the Dataflow into a pipeline and got the below desired result.



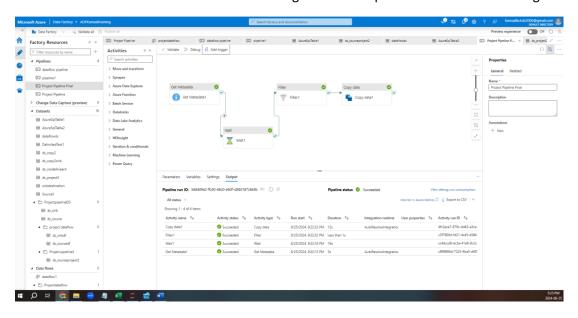
	А	В	С	D	E	F	G	н
1	Year	city1	city2	airport_1	airport_2	passenger	fare	
2	2024	Dallas/For	Pittsburgh	DAL	PIT	117	224.91	
3	2024	Dallas/For	Pittsburgh	DFW	PIT	411	309.38	
4	2024	Dallas/For	Denver, C	DAL	DEN	1262	163.48	
5	2024	Dallas/For	Denver, C	DFW	DEN	1718	201.24	
6	2024	Dallas/For	Tucson, A	DAL	TUS	35	234.66	
7	2024	Dallas/For	Tucson, A	DFW	TUS	265	312.99	
8	2024	Dallas/For	Phoenix,	DAL	PHX	1119	207.6	
9	2024	Dallas/For	Phoenix,	DFW	PHX	1716	260.34	
10	2024	Dallas/For	Hartford,	DAL	BDL	33	277.13	
11	2024	Dallas/For	Hartford,	DFW	BDL	203	362.81	
12	2024	Dallas/For	Seattle, W	DAL	SEA	225	234.54	
13	2024	Dallas/For	Seattle, W	DFW	SEA	1185	282.6	
14	2024	Dallas/For	El Paso, TX	DAL	ELP	433	187.17	
15	2024	Dallas/For	El Paso, TX	DFW	ELP	289	254.43	
16	2024	Dallas/For	Nashville,	DAL	BNA	636	213.38	
17	2024	Dallas/For	Nashville,	DFW	BNA	712	262.1	
18	2024	Dallas/For	Washingto	DAL	BWI	586	213.97	
19	2024	Dallas/For	Washingto	DAL	DCA	529	192.79	
20	2024	Dallas/For	Washingto	DAL	IAD	7	242.22	
21	2024	Dallas/For	Washingto	DFW	BWI	648	199.27	
22	2024	Dallas/For	Washingto	DFW	DCA	1003	310.28	
23	2024	Dallas/For	Washingto	DFW	IAD	584	255.64	
24	2024	Dallas/For	St. Louis, I	DAL	STL	589	213.63	
25	2024	Dallas/For	St. Louis, 1	DFW	STL	400	267.45	
26	2024	Dallas/For	Jacksonvil	DAL	JAX	51	238.98	
27	2024	Dallas/For	Jacksonvil	DFW	JAX	475	291.64	
28	2024	Dallas/For	Detroit, M	DAL	DTW	42	244.15	
29	2024	Dallas/For	Detroit, M	DFW	DTW	1151	246.73	
30	2024	Dallas/For	Des Moine	DAL	DSM	14	207.58	
31	2024	Dallas/For	Des Moine	DFW	DSM	219	274.19	
32	2024	Dallas/For	Houston,	DAL	HOU	928	187.27	
33	2024	Dallas/For	Houston,	DAL	IAH	116	163.95	
34	2024	Dallas/For	Houston,	DFW	HOU	150	228.3	
35	2024	Dallas/For	Houston 1	DEW	ΙΔΗ	746	217 96	

8. See below the output has been to stored in the sink (Target) location:

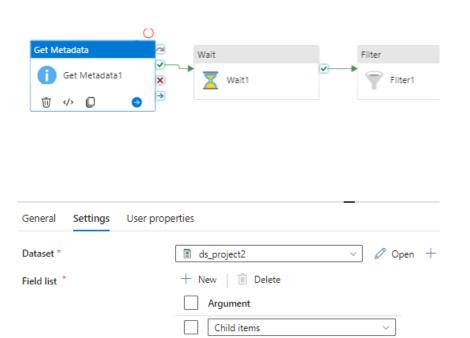


<u>ADF Pipeline Project</u>: Creating a Pipeline to filter a file from a set of files and copy to the desired destination.

From the Container of Adls wanted to filter single file and copied it to the desired storage location.



1. Taken the meta data to call for the Folder (container) where a number of files are located.

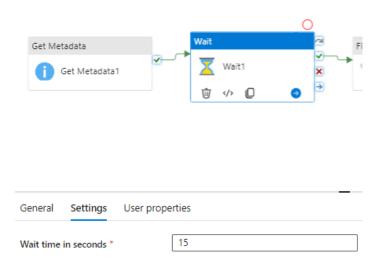


Start time (UTC)

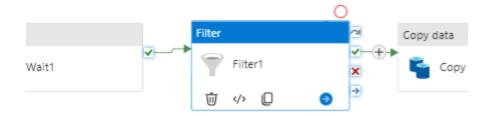
End time (UTC)

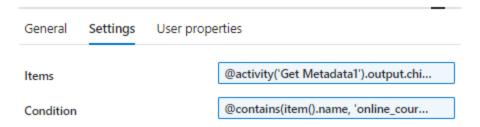
2. Used wait for 15 seconds to give a wait time

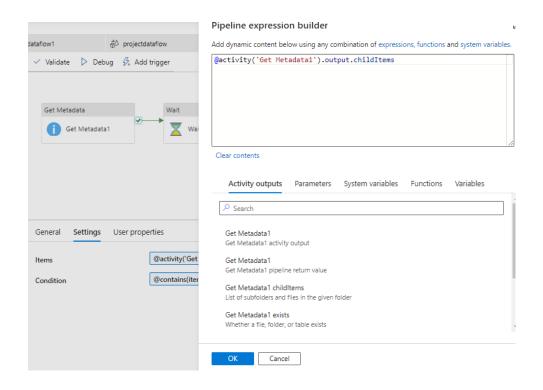
Filter by last modified ①

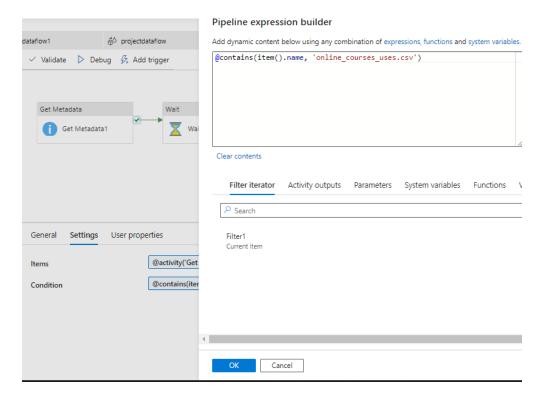


3. Filtered the desired file – Online Courses from a number of files present in the container.



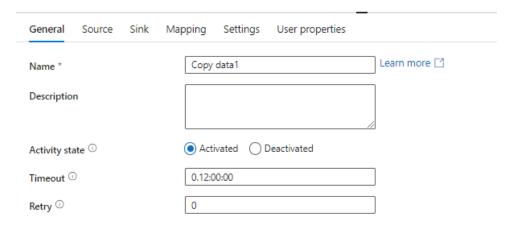


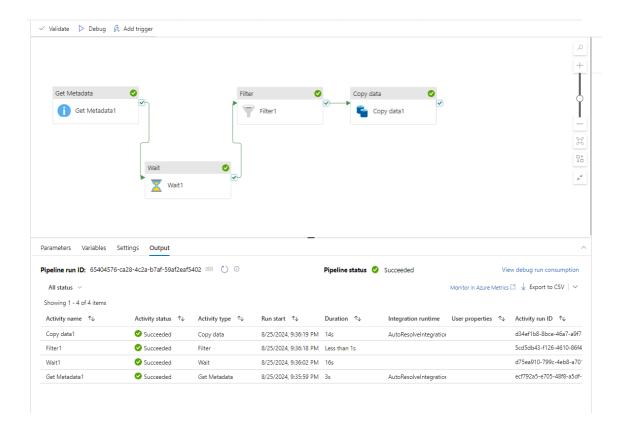




4. Copied the online courses file to desired location of storage in ADLS.







6. See below confirmation the copy activity executed the file to destination.

