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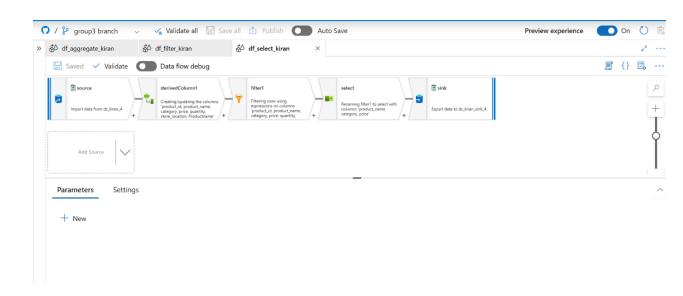
Requirement 1:

• **Use Case**: Select only certain columns from the dataset (e.g., exclude unnecessary columns).

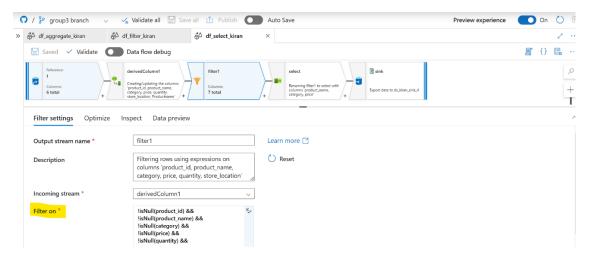
Example:

 Select only the product_name, category, and price columns from the products.csv file.

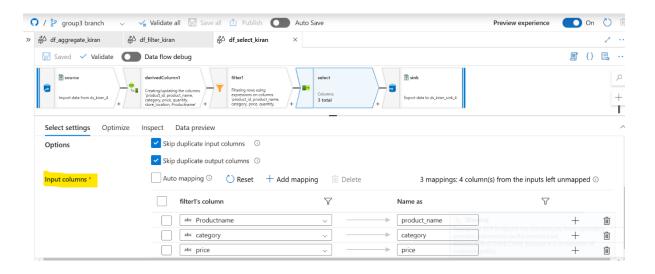
Architecture:



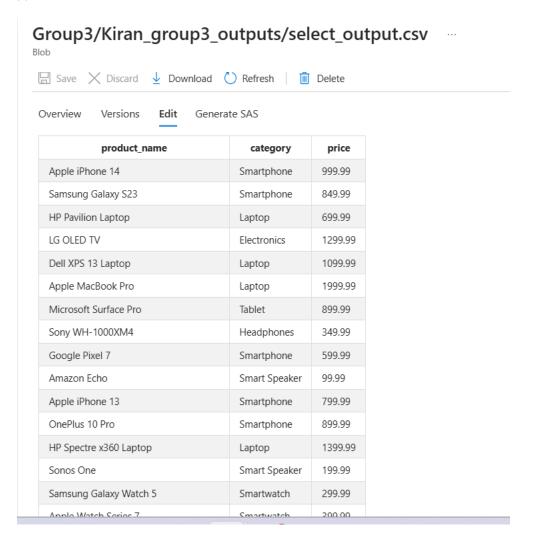
Logic:



Selecting required columns(product_name, category, and price):



Outcomes:



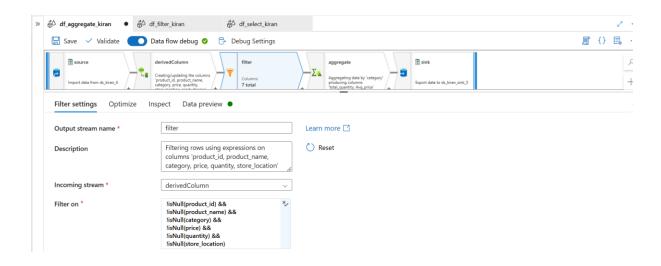
Requirement 2:

- Use Case: Perform aggregate operations like summing, counting, or averaging.
- Example:
 - o Calculate the total quantity of products available by category.
 - o Calculate the average price of products in each category.

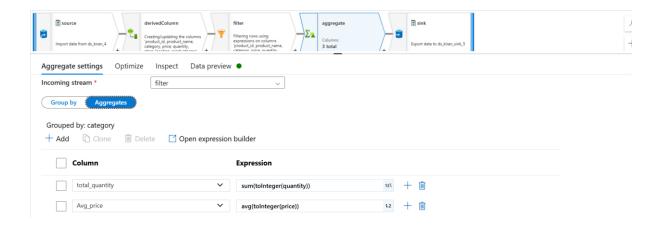
Architecture:



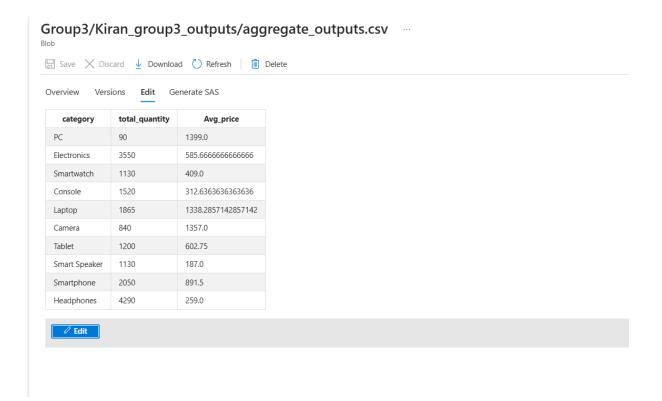
Logic:



To aggregate:



Outcomes:

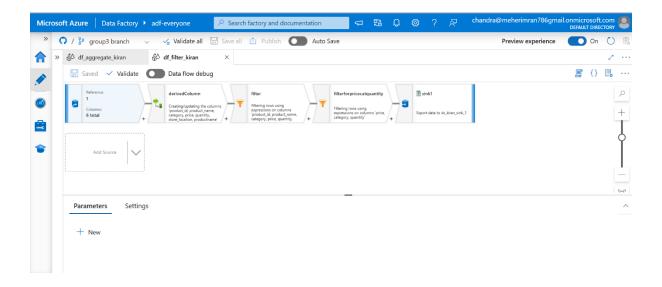


Requirement 3:

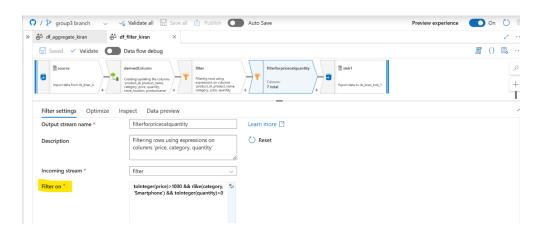
- **Use Case:** Filter products based on certain conditions like category, price range, or quantity.
- Example:

- o Filter products where price > 1000.
- o Filter products from the "Smartphone" category.
- o Filter products that are available in stock (i.e., quantity > 0).

Architecture:



Logic:



Outcomes:

