

Unit Testing

A photograph of a breadboard circuit with a multimeter. The breadboard is populated with various electronic components, including integrated circuits, resistors, and jumper wires. A blue multimeter is connected to the circuit, displaying a reading on its LCD screen. The background is dark and out of focus, showing a wooden surface and some other electronic components.

Advert CTR – Test Cases

1. Test the impression flow from the source topic to the final output topic.

Test Steps	Test Data
Send one impression to the source topic (Ad-Impressions)	100001:{"ImpressionID": "100001", "Campaigner": "ABC Ltd"}
Read the record from the final topic (Campaign Performance)	
Validate the Campaigner name	"ABC Ltd"
Validate impression count	1

2. Test the impression count increments correctly.

Test Steps	Test Data
Send second impression to the source topic (Ad-Impressions)	100002:{"ImpressionID": "100002", "Campaigner": "ABC Ltd"}
Read the record from the final topic (Campaign Performance)	
Validate the Campaigner name	"ABC Ltd"
Validate impression count	2

3. Test the adClick count increments correctly

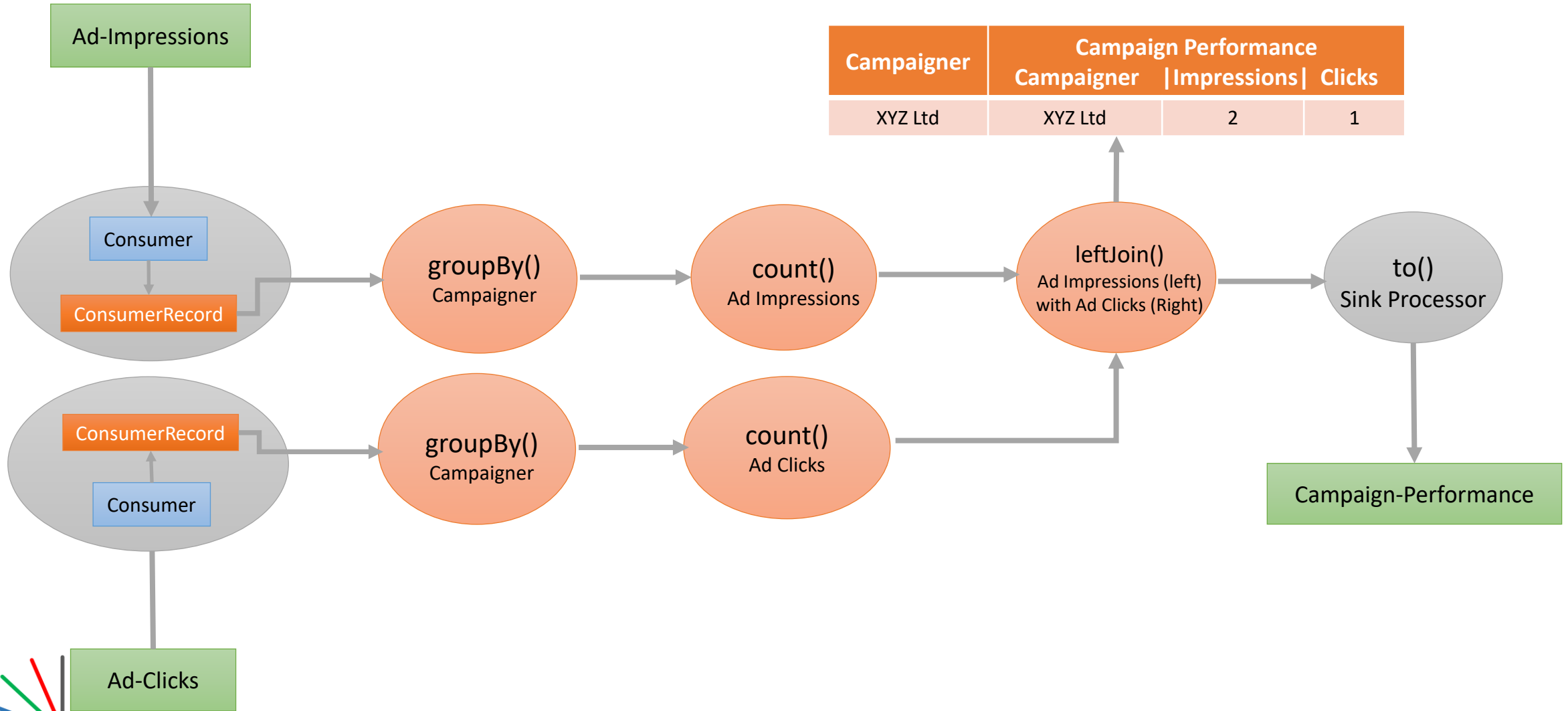
Test Steps	Test Data
Send one ad click event to the source topic (Ad-Clicks)	100001:{"ImpressionID": "100001", "Campaigner": "ABC Ltd"}
Read the record from the final topic (Campaign Performance)	
Validate the Campaigner name	"ABC Ltd"
Validate impression count	2
Validate click count	1

4. Test the state store holds the correct state

Test Steps	Test Data
Read the value from the state store for a key	Key="ABC Ltd"
Validate the Campaigner name	"ABC Ltd"
Validate impression count	2
Validate click count	1



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