Aggregating and Enriching Data with Kafka Streams



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Overview

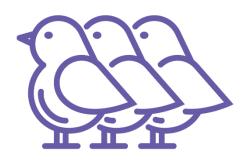


Grouping and aggregating

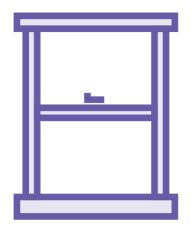
Joining and enriching



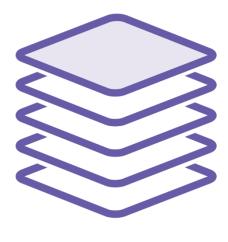
Combining Events







Windowing



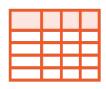
Aggregating



Custom Aggregations



Efficiency Considerations



Consider using tables





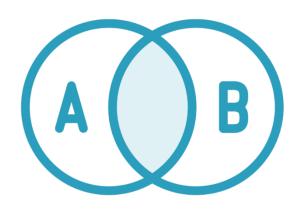
Remember your partitions

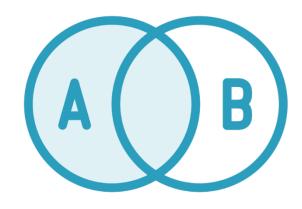


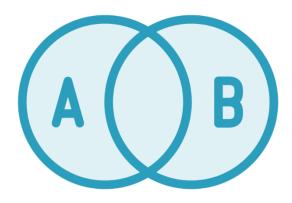
Enriching and Joining Data



Types of Joins





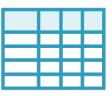


Inner Left Outer



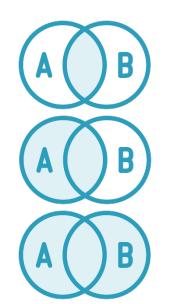
Supported Joins











Join Considerations



Nulls don't join



Streams trigger joins



Object types



Co-partitioning



Windowing

Demo



Branch a stream

Create an aggregated table

Join a stream to a table

Demo



Create a stream

Apply a window

Handle late events

Aggregate over that window



Summary



Streaming theory

Setting of ksqIDB

Writing and deploying queries

Advanced streaming theory

Writing Kafka Streams applications

Expanding with aggregations and joins

