

The background image is a dark, low-key photograph of a motorcycle rider on a track. The rider is wearing a helmet and a racing suit, and the motorcycle's fairings and handlebars are visible. The track surface and distant landscape are faintly visible in the background. The overall mood is mysterious and high-tech.

# KTable Caching and Emit Rates

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help streaming-table [C:\Udemy\StarterProject\18-streaming-table-starter\18-streaming-table] - ... \kafka\examples\StreamingTableApp.java

18-streaming-table > src > main > java > guru > learningjournal > kafka > examples > StreamingTableApp

Project > StreamingTableApp.java

```
7 import org.apache.kafka.streams.kstream.KTable;
8 import org.apache.kafka.streams.kstream.Materialized;
9 import org.apache.kafka.streams.kstream.Printed;
10 import org.apache.logging.log4j.LogManager;
11 import org.apache.logging.log4j.Logger;
12
13 import java.util.Properties;
14
15 public class StreamingTableApp {
16     private static final Logger logger = LogManager.getLogger();
17
18     public static void main(final String[] args) {
19
20         final Properties props = new Properties();
21         props.put(StreamsConfig.APPLICATION_ID_CONFIG, AppConfigs.applicationID);
```

Run: start-zookeeper x start-kafka-server-0 x start-kafka-server-1 x start-kafka-server-2 x start-producer x StreamingTableApp

"C:\Program Files\Java\jdk1.8.0\_191\bin\java.exe" ...

[2019-10-13 10:20:31,153] (org.apache.kafka.clients.consumer.ConsumerConfig) - WARN The configuration 'admin.retries' was supplied but isn't a known config.

[2019-10-13 10:20:31,168] (org.apache.kafka.clients.consumer.ConsumerConfig) - WARN The configuration 'admin.retry.backoff.ms' was supplied but isn't a known config.

[2019-10-13 10:20:31,387] (guru.learningjournal.kafka.examples.StreamingTableApp) - INFO State Changing to REBALANCING from CREATED

[2019-10-13 10:20:31,387] (guru.learningjournal.kafka.examples.QueryServer) - INFO Starting Query Server at <http://localhost:7010/kt01-store/all>

[2019-10-13 10:20:33,902] (guru.learningjournal.kafka.examples.StreamingTableApp) - INFO State Changing to RUNNING from REBALANCING

[KT0]: HDFCBANK, 1250.00

[KT1]: HDFCBANK, 1250.00

[KT0]: TCS, 2150.00

[KT1]: TCS, 2150.00

[KT0]: KOTAK, 1570

[KT0]: HDFCBANK, 1255.00

[KT1]: HDFCBANK, 1255.00

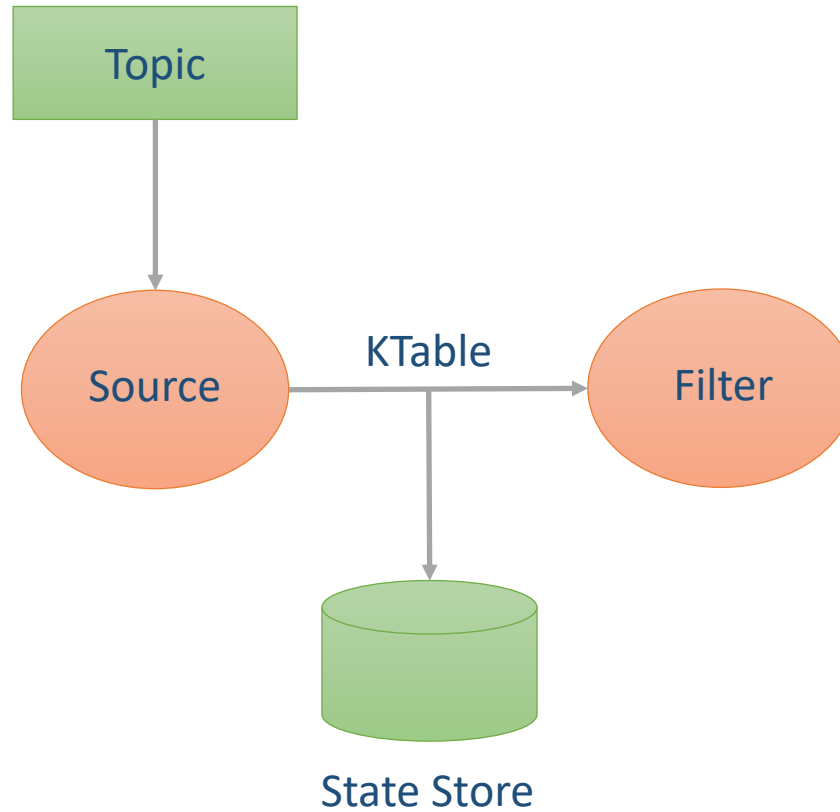
[KT0]: HDFCBANK,

4: Run 6: TODO Terminal Build Messages

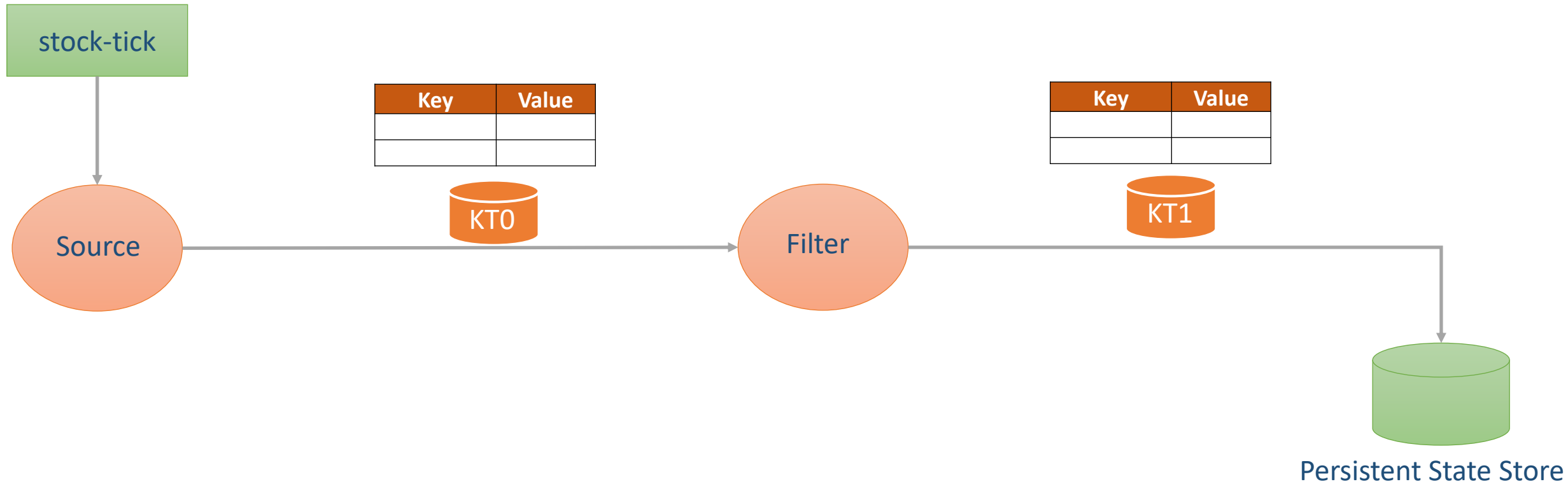
Build completed successfully in 4 s 284 ms (7 minutes ago)

15:1 CRLF UTF-8 4 spaces

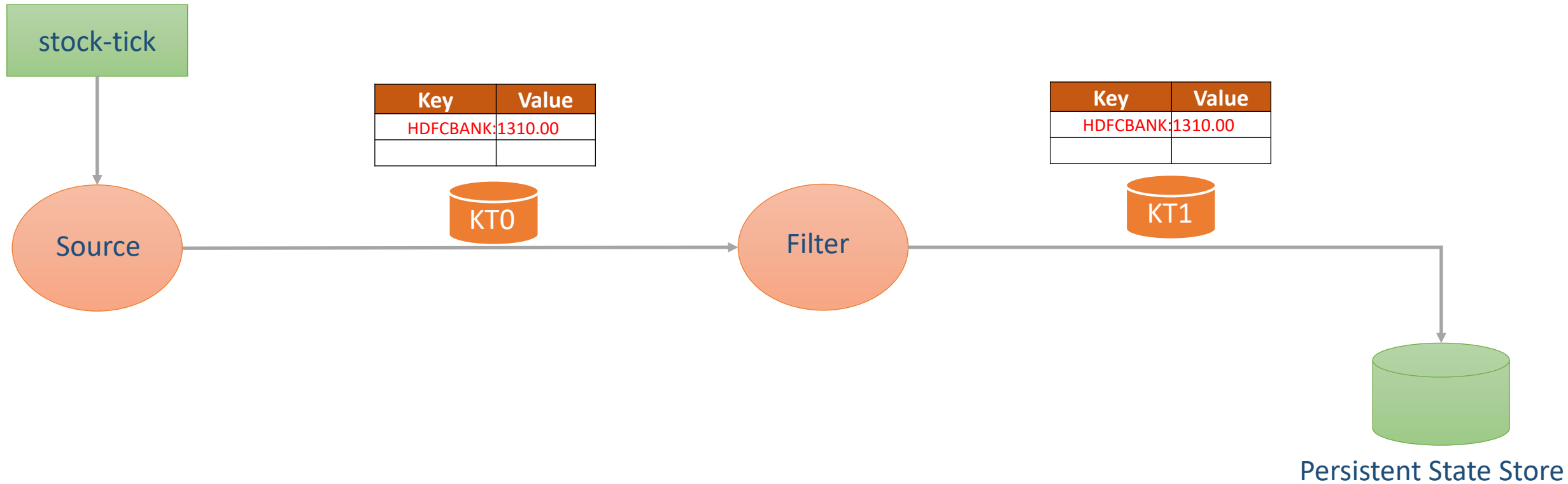
# KTable Caching



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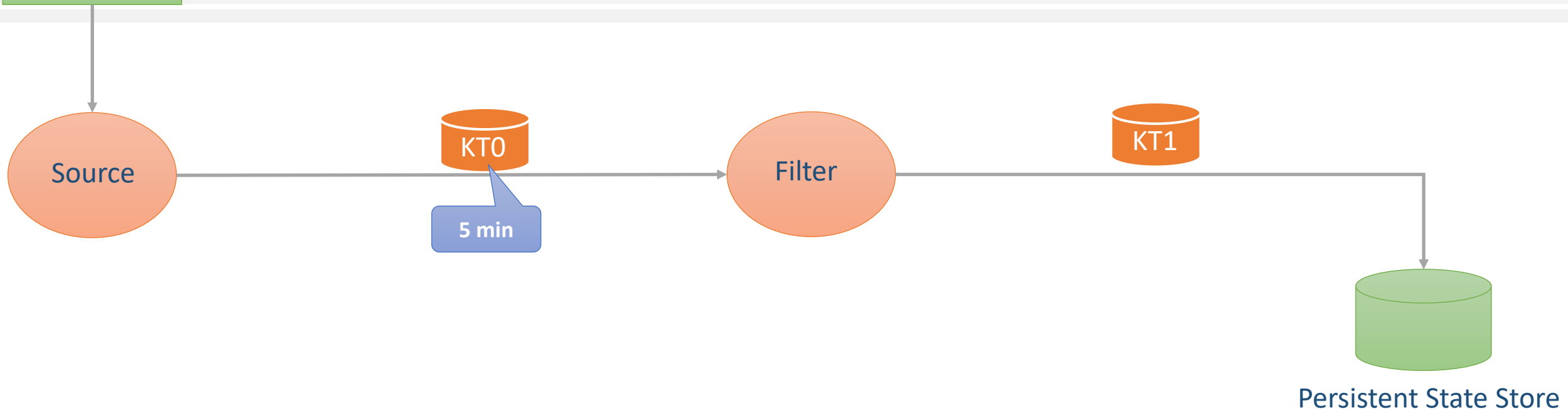
1. `commit.interval.ms`
2. `cache.max.bytes.buffering`

```
// Set commit interval to 1 second.  
props.put(StreamsConfig.COMMIT_INTERVAL_MS_CONFIG, 1000);  
// Enable record cache of size 10 MB.  
props.put(StreamsConfig.CACHE_MAX_BYTES_BUFFERING_CONFIG, 10 * 1024 * 1024L);
```



stock-tick

## Emit Rate



```
KTable<String, String> KT1 = KT0.filter((k, v) -> k.matches(AppConfigs.regExSymbol) && !v.isEmpty(),  
    Materialized.as(AppConfigs.stateStoreName))  
    .suppress(Suppressed.untilTimeLimit(Duration.ofMinutes(5),  
        Suppressed.BufferConfig.maxBytes( byteLimit: 1000000L).emitEarlyWhenFull())));
```

