Global sums for currently active sessions

Status: Draft Intent:

- transaction sums per customer session (simple using session-windowed aggregation)
- global transaction sums for all *currently active* customer sessions

```
builder
  .stream(/*key serde*/, /*transaction serde*/, "transaciton-topic")
  .groupByKey(/*key serde*/, /*transaction serde*/)
  .aggregate(
   () -> /*empty aggregate*/,
   aggregator(),
   merger(),
   SessionWindows.with(SESSION_TIMEOUT_MS).until(SESSION_TIMEOUT_MS*2),
    /* aggregate serde */,
    txPerCustomerSumStore() // this store can be queried for per customer session data )
  .toStream()
  .filter(((key, value) -> value != null)) // tombstones only come when a session is merged into a bigger
session, so ignore them
// the below map/groupByKey/reduce operations are to only propagate updates to the latest session per customer
to downstream
 .map((windowedCustomerId, agg) -> // this moves timestamp from the windowed key into the value
                                   // so that we can group by customerId only and reduce to the later value
   new KeyValue<>(
     windowedCustomerId.key(), // just customerId
     new WindowedAggsImpl( // this is just like a tuple2 but with nicely named accessors: timestamp() and
aggs()
       windowedCustomerId.window().end(),
       aqq
     )
   )
 )
  .groupByKey( /*key serde*/, /*windowed aggs serde*/ ) // key is just customerId
  .reduce( // take later session value and ignore any older - downstream only cares about current sessions
    (val, agg) -> val.timestamp() > agg.timestamp() ? val : agg,
   TimeWindows.of(SESSION_TIMEOUT_MS).advanceBy(SESSION_TIMOUT_DELAY_TOLERANCE_MS),
    "latest-session-windowed"
 )
 .groupBy((windowedCustomerId, timeAndAggs) -> // calculate totals with maximum granularity, which is per-
partition
   new KeyValue<>(
     new Windowed<>(
       windowedCustomerId.key().hashCode() % PARTITION_COUNT_FOR_TOTALS, // KIP-159 would come in handy here,
to access partition number instead
       windowedCustomerId.window() // will use this in the interactive queries to pick the oldest not-yet-
expired window
     ),
     timeAndAggs.aggs()
    ),
   new SessionKeySerde<>(Serdes.Integer()),
   /* aggregate serde */
 )
 .reduce(
   (val, agg) -> agg.add(val),
    (val, agg) -> agg.subtract(val),
   txTotalsStore() // this store can be queried to get totals per partition for all active sessions
 );
builder.globalTable(
 new SessionKeySerde<>(Serdes.Integer()),
  /* aggregate serde */,
 changelogTopicForStore(TRANSACTION_TOTALS), "totals");
// this global table puts per partition totals on every node, so that they can be easily summed for global
totals, picking the oldest not-yet-expired window
```

TODO: put in StreamParitioners (with KTable.through variants added in KAFKA-5045) to avoid re-partitioning where I know it's unnecessary.

The idea behind the % PARTITION_COUNT_FOR_TOTALS bit is that I want to first do summation with max parallelism and minimize the work needed downstream. So I calculate a per-partition sum first to limit the updates that the totals topic will receive and the summing work done by the interactive queries on the global store.