

KIP-648: Renaming getter method for Interactive Queries

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Status

Current state: Accepted

Discussion thread: *None*

Voting thread : [Here](#)

JIRA:

 Unable to render Jira issues macro, execution error.

Motivation

In the 2.5 release, we introduce new classes for Interactive Queries via KIP-535 (<https://issues.apache.org/jira/browse/KAFKA-6144>).

The KIP did not specify the names for getter methods of `KeyQueryMetadata` explicitly and they were added in the PR as `getActiveHost()`, `getStandbyHosts()`, and `getPartition()`.

However, in Kafka it is custom to not use the `get` prefix for getters and thus the methods should have `activeHost()`, `standbyHosts()`, and `partition()`, respectively.

We need to rename the methods accordingly, by deprecating the existing ones and adding the new ones in parallel.

Public Interfaces

We propose to add 3 new getters without the prefix 'get' and deprecate the existing 3 getters in `KeyQueryMetadata.java`. The changes that are to be made in the class on a high-level is mentioned below.

KeyQueryMetadata.java

```
package org.apache.kafka.streams;
public class KeyQueryMetadata{
//deprecated
    @Deprecated
    public HostInfo getActiveHost() {
        return activeHost;
    }
//deprecated
    @Deprecated
    public Set<HostInfo> getStandbyHosts() {
        return standbyHosts;
    }
//deprecated
    @Deprecated
    public int getPartition() {
        return partition;
    }

//new
    public HostInfo activeHost() {
        return activeHost;
    }
//new
    public Set<HostInfo> standbyHosts() {
        return standbyHosts;
    }
//new
    public int partition() {
        return partition;
    }
}
```

Proposed Changes

Deprecate the existing getters and add new getters without the prefix 'get' . Add the getters `activeHost()`, `standbyHosts()`, and `partition()` to `KeyQueryMetadata.java`.

Update the existing Tests to use the new getters of `KeyQueryMetadata.java` . Below are the Test classes that needs to update with new getters

- *OptimizedKTableIntegrationTest.java*
- *QueryableStateIntegrationTest.java*
- *StoreQueryIntegrationTest.java*
- *StreamsMetadataStateTest.java*

Compatibility, Deprecation, and Migration Plan

- Users using `getActiveHost()`, `getStandbyHosts()`, and `getPartition()` are not effected. These methods will be deprecated.
- Users using `getActiveHost()`, `getStandbyHosts()`, and `getPartition()` can update their code to use `activeHost()`, `standbyHosts()`, and `partition()`

Rejected Alternatives

None