IST769 Kafka and KSQL

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Date Due:   
Homework #: 10

1. Write KSQL to create a stream named **weblogs** from the JSON keys in the **weblogs** Kafka topic. Make sure to set the TIMESTAMP property to the timestamp from the stream.

CREATE STREAM weblogs2 (timestamp bigint,browser varchar, OS varchar, uri varchar, user varchar )

with (kafka\_topic='weblogs', value\_format='json', timestamp='Timestamp');

1. Write a KSQL statement create a persistent stream/table called **homepage** which only displays visitors to the root of the website (/). It should display all columns from the **weblogs** stream.

create stream homepage as select \* from weblogs2 where uri = '/';

1. Write a KSQL statement to count operating systems users (os) in 60 second windows. After 60 seconds, the counter should reset, and counts should begin again.

select os, count(user) as number\_of\_users from weblogs2 window tumbling(size 60 seconds) group by os;

1. Write a KSQL persistent stream/table called **user\_activity** which will display a count of user activity on the website within 1-minute sessions.

Create table user\_activity as select user, count(\*) as user\_activity from weblogs2 window tumbling(size 60 seconds) group by user;

1. Write a KSQL statement to display users who have more than 1 pages of activity in a 1-minute session.

Select \* from user\_activity where user\_activity > 1;