BIG DATA HADOOP AND SPARK DEVLOPMENT

ASSIGNMENT 23

Table of Contents:

BIG DATA HADOOPAND SPARK DEVELOPMENT

1. Introduction

In this assignment, the given tasks are performed and Output of the tasks are recorded in the form of Screenshots.

2. Objective

This Assignment consolidates the deeper understanding of the Session – 23 Introduction to Apache Kafka

3. Problem Statement

- ### Task 1
  - o Create a kafka topic named KeyLessTopic. Inside KeyLessTopic insert following data:
    {"name":"John", "exp":16}
    {"name":"Finn", "exp":20}
    {"name":"Cylin", "exp":18}
    {"name":"Mark", "exp":2}
    {"name":"Akshay", "exp":14}

- ### Task 2
  - o Create a console consumer that reads KeyLessTopic from beginning

- ### Task 3
  - o Create a kafka topic named KeyedTopic. Inside KeyedTopic insert following data:
    The part before comma(,) should be treated as key and after comma(,) should be treated as value
    {"name":"John"},{"exp":16}
    {"name":"Finn"},{"exp":20}
    {"name":"Cylin"},{"exp":18}
    {"name":"Mark"},{"exp":2}
    {"name":"Akshay"},{"exp":14}

- ### Task 4
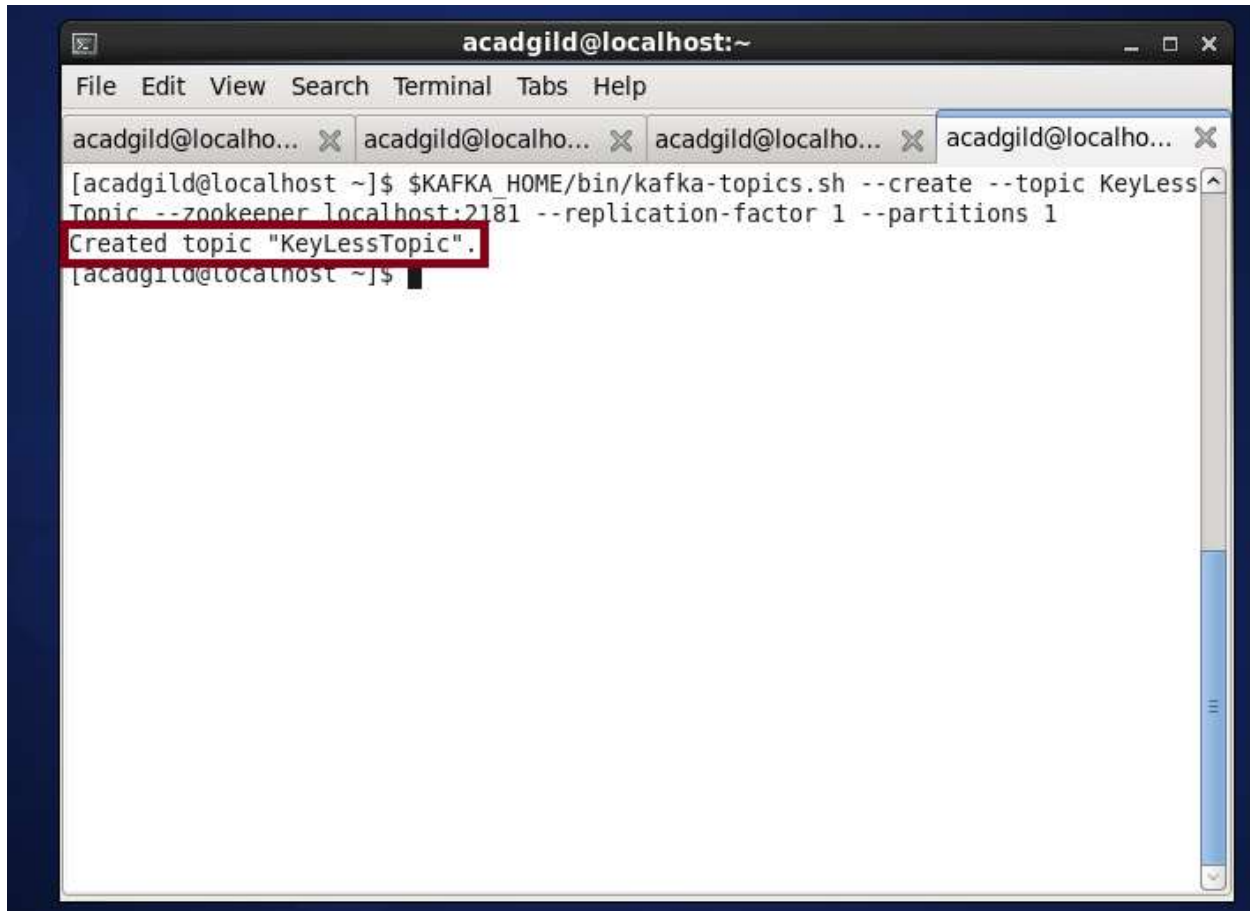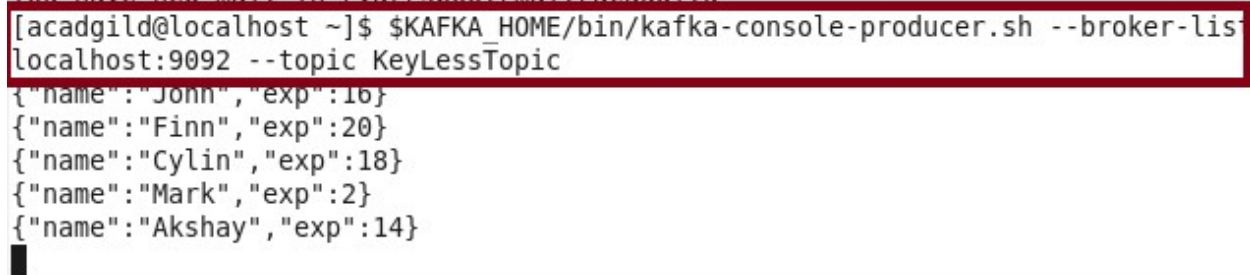 - o Create a console consumer that reads KeyedTopic from beginning The key and value should be separated by '-

4. Expected Output

- Task 1
  - o Create a kafka topic named KeyLessTopic. Inside KeyLessTopic insert following data:
    - {"name":"John", "exp":16}
    - {"name":"Finn", "exp":20}
    - {"name":"Cylin", "exp":18}
    - {"name":"Mark", "exp":2}
    - {"name":"Akshay", "exp":14}


```
[acadgild@localhost ~]$ $KAFKA_HOME/bin/kafka-console-producer.sh --broker-list
localhost:9092 --topic KeyLessTopic
{"name":"John","exp":16}
{"name":"Finn","exp":20}
{"name":"Cylin","exp":18}
{"name":"Mark","exp":2}
{"name":"Akshay","exp":14}
```
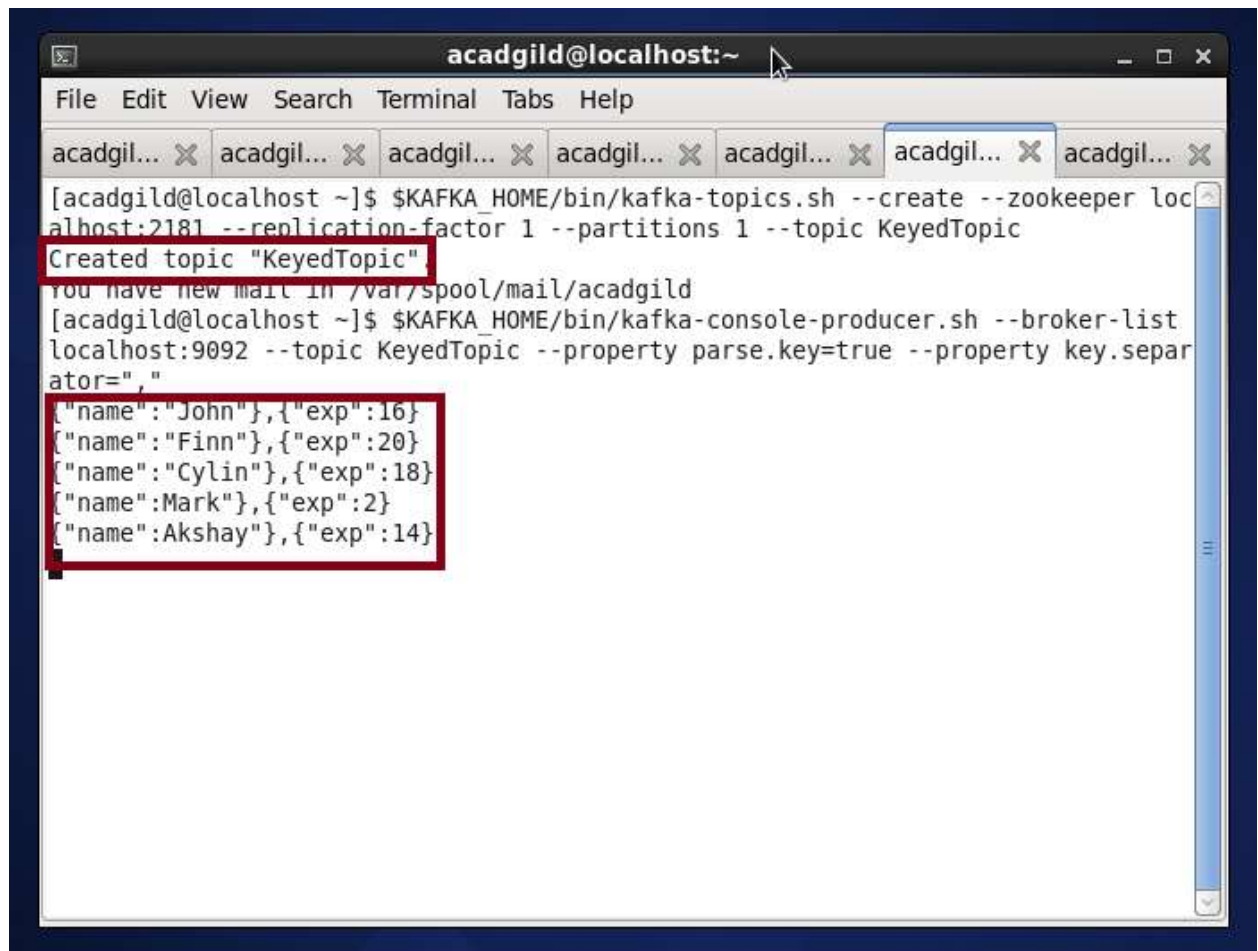
- **Task 2**

  o Create a console consumer that reads KeyLessTopic from beginning

```
[acadgild@localhost ~]$ $KAFKA_HOME/bin/kafka-console-consumer.sh --bootstrap-se
rver localhost:9092 --from-beginning --topic KeyLessTopic
{"name":"John","exp":16}
{"name":"Finn","exp":20}
{"name":"Cylin","exp":18}
{"name":"Mark","exp":2}
{"name":"Akshay","exp":14}
```

- Task 3
  - Create a kafka topic named KeyedTopic. Inside KeyedTopic insert following data:
    The part before comma(,) should be treated as key and after comma(,)
    should be treated as value
    {"name":"John"},{"exp":16}
    {"name":"Finn"},{"exp":20}
    {"name":"Cylin"},{"exp":18}
    {"name":"Mark"},{"exp":2}
    {"name":"Akshay"},{"exp":14}
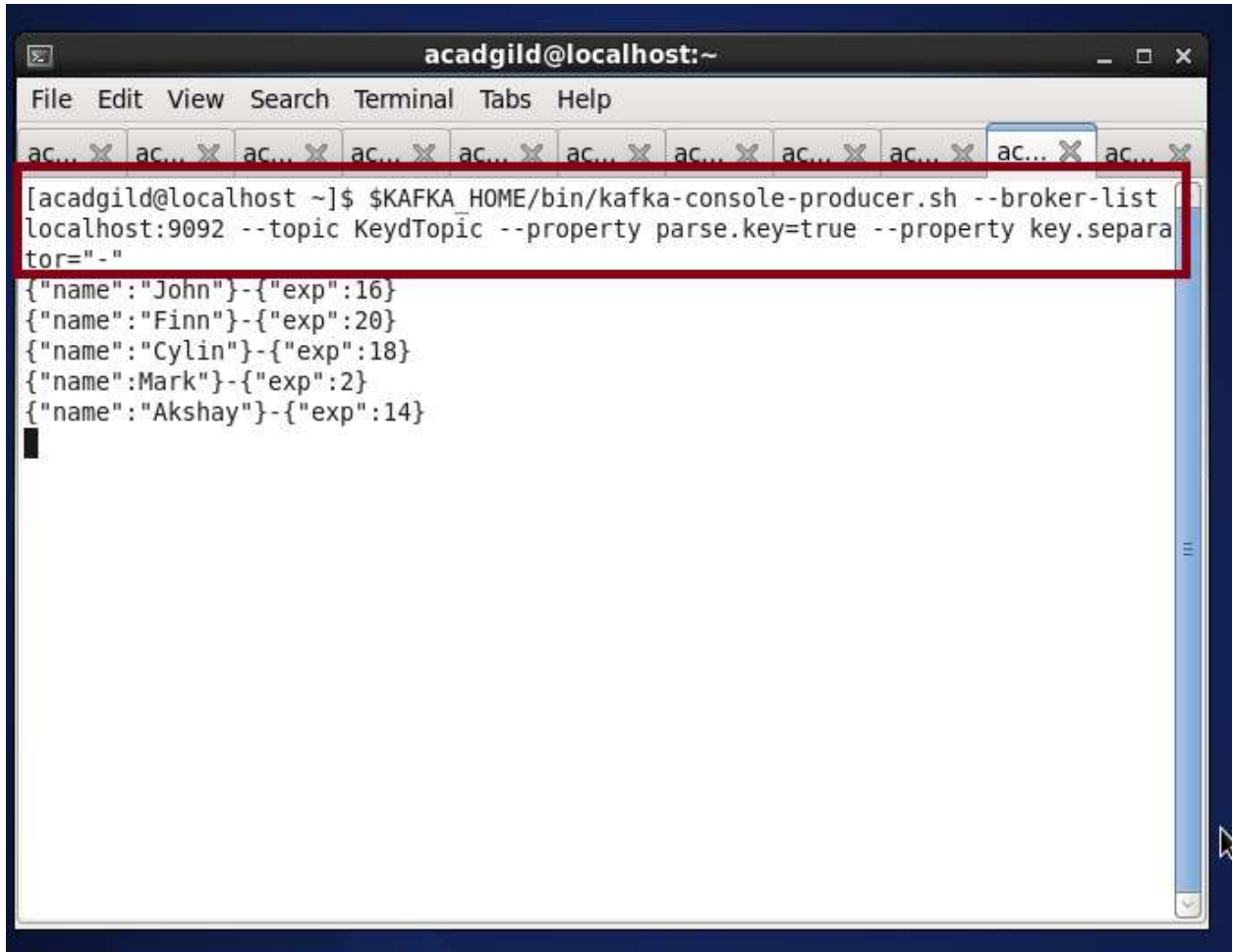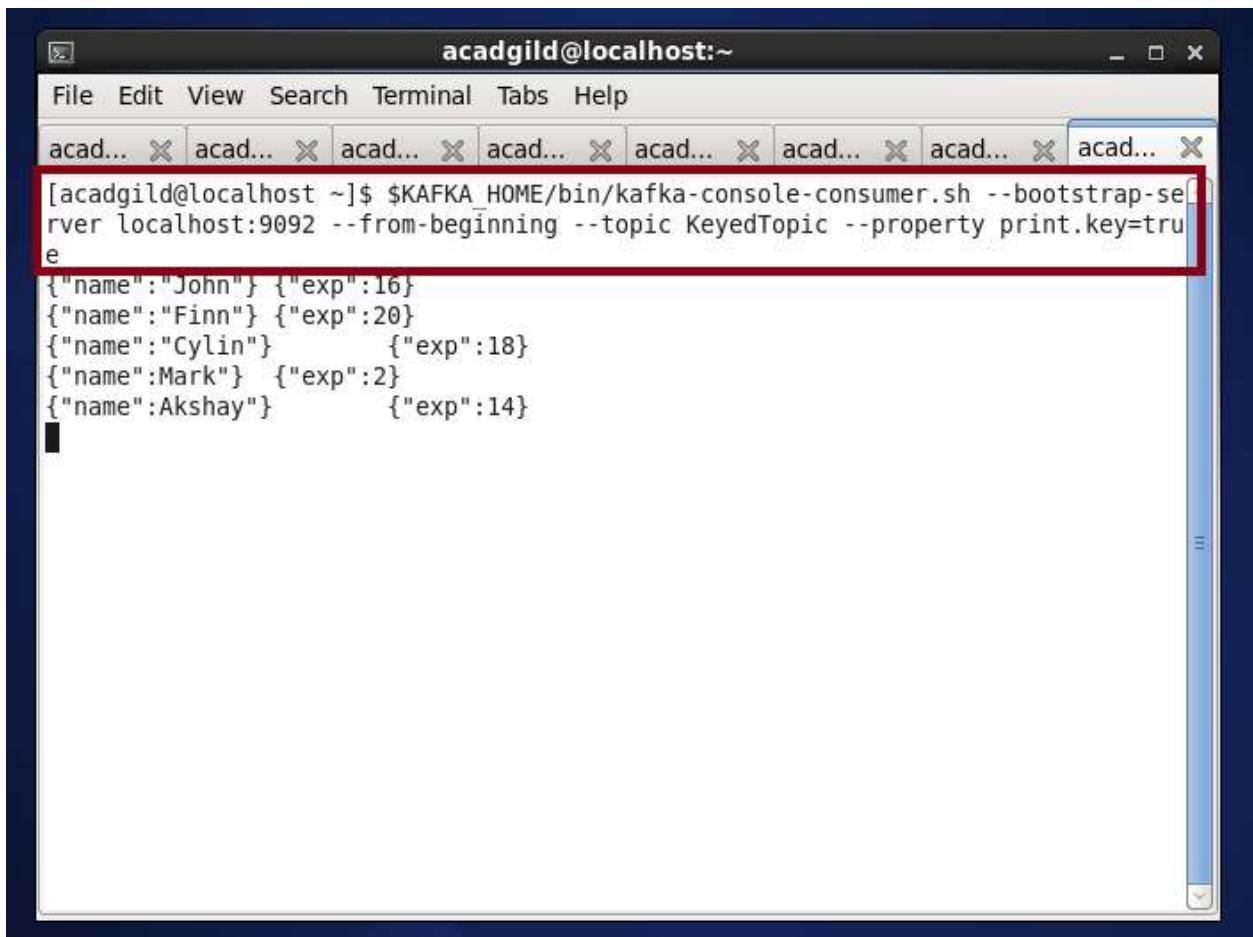
- **Task 4**
  - Create a console consumer that reads KeyedTopic from beginning The key and value should be separated by '-

```
[acadgild@localhost ~]$ $KAFKA_HOME/bin/kafka-console-consumer.sh --bootstrap-se
rver localhost:9092 --from-beginning --topic KeyedTopic --property print.key=tru
e
{"name":"John"} {"exp":16}
{"name":"Finn"} {"exp":20}
{"name":"Cylin"}        {"exp":18}
{"name":Mark"}  {"exp":2}
{"name":Akshay"}        {"exp":14}
```