

## Assignment 23

### Task 1:

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}
```

### # Create Topic

```
kafka-topics --create --topic KeyLessTopic --zookeeper localhost:2181 --  
partitions 1 --replication-factor 1
```

 acadgild@localhost:~

```
[acadgild@localhost ~]$ kafka-topics --create --topic KeyLessTopic --zookeeper localhost:2181 --partitions 1 --replication-factor 1  
Created topic "KeyLessTopic".  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$
```

### # List topics :- To check list of topics created

```
kafka-topics --list --zookeeper localhost:2181
```

```
acadmild@localhost:~$ kafka-topics --create --topic KeyLessTopic --zookeeper localhost:2181 --partitions 1 --replication-factor 1
Created topic "KeyLessTopic".
You have new mail in /var/spool/mail/acadmild
[acadmild@localhost ~]$ kafka-topics --list --zookeeper localhost:2181
KeyLessTopic
KeyedTopic5
PartitionedProducer
TestTopic
TestTopic1
TestTopic2
__consumer_offsets
__schemas
connect-configs
connect-offsets
connect-statuses
[acadmild@localhost ~]$
```

## # Start console based producer and start pushing the data Inside KeyLessTopic

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}

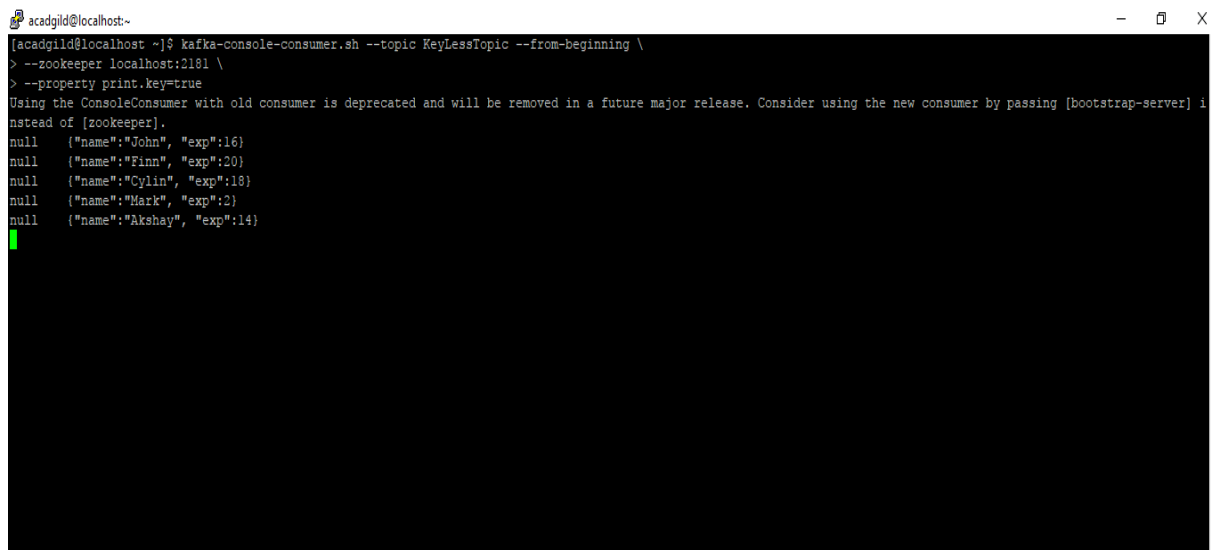
{"name":"Akshay", "exp":14}

```
acadmild@localhost:~$ 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:

Create a console consumer that reads KeyLessTopic from beginning

```
kafka-console-consumer.sh --topic KeyLessTopic --from-beginning \  
--zookeeper localhost:2181 \  
--property print.key=true
```

A terminal window with a black background and white text. The prompt is 'acadgild@localhost:~'. The command entered is 'kafka-console-consumer.sh --topic KeyLessTopic --from-beginning \> --zookeeper localhost:2181 \> --property print.key=true'. The output shows a deprecation warning followed by five lines of JSON data, each preceded by 'null'. The data represents records from the 'KeyLessTopic' topic.

```
acadgild@localhost:~  
[acadgild@localhost ~]$ kafka-console-consumer.sh --topic KeyLessTopic --from-beginning \  
> --zookeeper localhost:2181 \  
> --property print.key=true  
Using the ConsoleConsumer with old consumer is deprecated and will be removed in a future major release. Consider using the new consumer by passing [bootstrap-server] i  
nstead of [zookeeper].  
null    {"name":"John", "exp":16}  
null    {"name":"Finn", "exp":20}  
null    {"name":"Cylin", "exp":18}  
null    {"name":"Mark", "exp":2}  
null    {"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}
```

## # Create Topic

kafka-topics --create --topic KeyedTopic --zookeeper localhost:2181 --partitions 1 --replication-factor 1

```
acagild@localhost:~$ kafka-topics --create --topic KeyedTopic --zookeeper localhost:2181 --partitions 1 --replication-factor 1
Created topic "KeyedTopic".
You have new mail in /var/spool/mail/acagild
[acagild@localhost ~]$
```

## # List topics :- # List topics :- To check list of topics created

kafka-topics --list --zookeeper localhost:2181

```
acagild@localhost:~$ kafka-topics --list --zookeeper localhost:2181
KeyLessTopic
KeyedTopic
KeyedTopic5
PartitionedProducer
TestTopic
TestTopic1
TestTopic2
_consumer_offsets
_schemas
connect-configs
connect-offsets
connect-statuses
You have new mail in /var/spool/mail/acagild
[acagild@localhost ~]$
```

## # Start console based producer and start pushing the data inside KeyedTopic

kafka-console-producer.sh --broker-list localhost:9092 --topic KeyedTopic --property "parse.key=true" --property "key.separator=,"

{"name":"John"}, {"exp":16}

```
{"name":"Finn"},"exp":20}
{"name":"Cylin"},"exp":18}
{"name":"Mark"},"exp":2}
{"name":"Akshay"},"exp":14}
```

```
acadmild@localhost:~$ kafka-console-producer.sh --broker-list localhost:9092 --topic KeyedTopic --property "parse.key=true" --property "key.separator=",
{"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 '-'

```
kafka-console-consumer.sh --topic KeyedTopic --from-beginning \
--zookeeper localhost:2181 \
--property "print.key=true" --property "key.separator=-"
```

```
acadmild@localhost:~$ kafka-console-consumer.sh --topic KeyedTopic --from-beginning \
> --zookeeper localhost:2181 \
> --property "print.key=true" --property "key.separator=-"
Using the ConsoleConsumer with old consumer is deprecated and will be removed in a future major release. Consider using the new consumer by passing [bootstrap-server] i
nstead of [zookeeper].
{"name":"John"}-{"exp":16}
{"name":"Finn"}-{"exp":20}
{"name":"Cylin"}-{"exp":18}
{"name":"Mark"}-{"exp":2}
{"name":"Akshay"}-{"exp":14}
```

