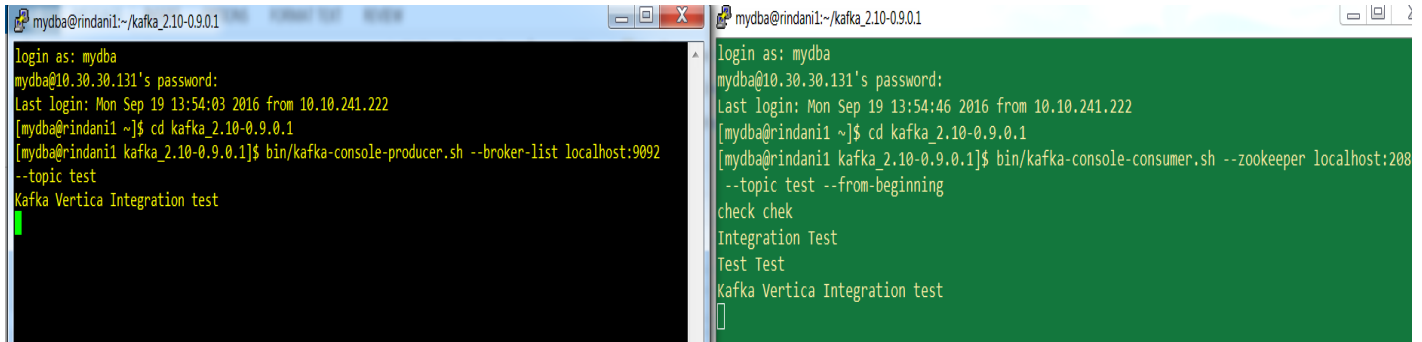


Kafka Integration with Vertica

Kafka Producer-Consumer

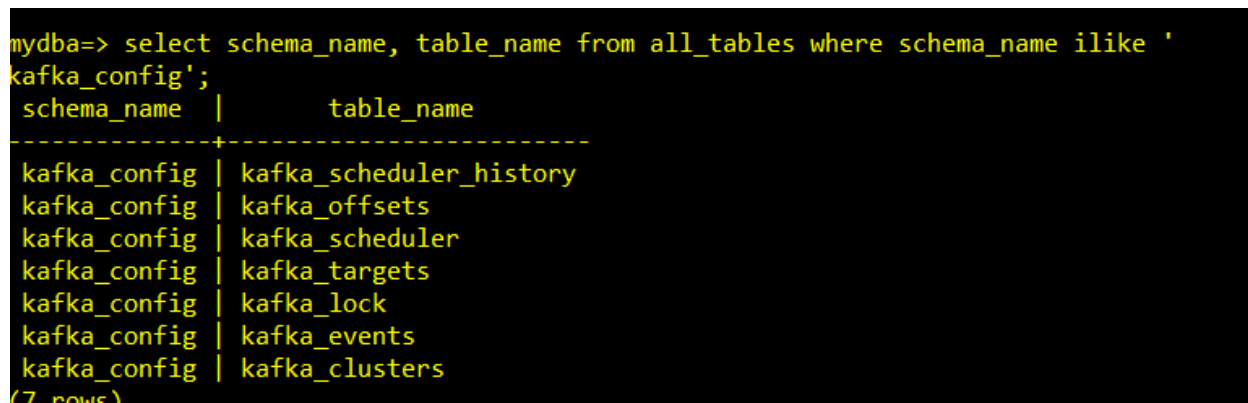


The image shows two terminal windows side-by-side. The left window has a black background and shows the execution of the Kafka console producer. The right window has a green background and shows the execution of the Kafka console consumer. Both windows show the user logging in as 'mydba' and navigating to the 'kafka_2.10-0.9.0.1' directory.

```
mydba@rindani1:~/kafka_2.10-0.9.0.1
login as: mydba
mydba@10.30.30.131's password:
Last login: Mon Sep 19 13:54:03 2016 from 10.10.241.222
[mydba@rindani1 ~]$ cd kafka_2.10-0.9.0.1
[mydba@rindani1 kafka_2.10-0.9.0.1]$ bin/kafka-console-producer.sh --broker-list localhost:9092
--topic test
Kafka Vertica Integration test
█
```

```
mydba@rindani1:~/kafka_2.10-0.9.0.1
login as: mydba
mydba@10.30.30.131's password:
Last login: Mon Sep 19 13:54:46 2016 from 10.10.241.222
[mydba@rindani1 ~]$ cd kafka_2.10-0.9.0.1
[mydba@rindani1 kafka_2.10-0.9.0.1]$ bin/kafka-console-consumer.sh --zookeeper localhost:208
--topic test --from-beginning
check chek
Integration Test
Test Test
Kafka Vertica Integration test
█
```

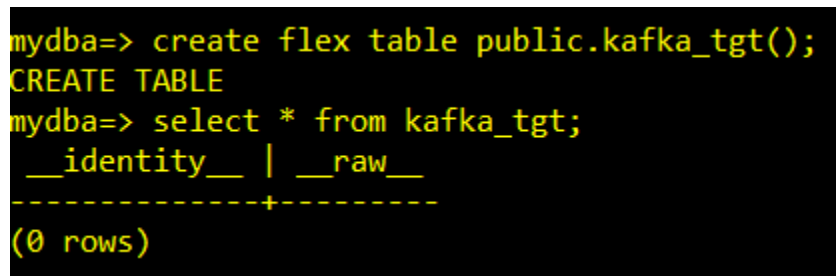
Default Kafka Schema(kafka_config) and scheduler are create and in place



The image shows a terminal window with a black background. It displays a SQL query executed in a Vertica database to find tables in the 'kafka_config' schema. The result shows seven tables: kafka_scheduler_history, kafka_offsets, kafka_scheduler, kafka_targets, kafka_lock, kafka_events, and kafka_clusters.

```
mydba=> select schema_name, table_name from all_tables where schema_name ilike '
kafka_config';
 schema_name |      table_name
-----+-----
 kafka_config | kafka_scheduler_history
 kafka_config | kafka_offsets
 kafka_config | kafka_scheduler
 kafka_config | kafka_targets
 kafka_config | kafka_lock
 kafka_config | kafka_events
 kafka_config | kafka_clusters
(7 rows)
```

Target Kafka table in place too with no data



The image shows a terminal window with a black background. It displays SQL commands to create a flex table named 'public.kafka_tgt()' and then query it. The query result shows zero rows.

```
mydba=> create flex table public.kafka_tgt();
CREATE TABLE
mydba=> select * from kafka_tgt;
 __identity__ | __raw__
-----+-----
(0 rows)
```

Associating topic test

```
[mydba@rindanil ~]$ /opt/vertica/packages/kafka/bin/vkconfig topic --add --target public.kafka_tgt --rejection-table public.kafka_rej --topic test --num-partitions 2 --conf /home/mydba/config.properties
[mydba@rindanil ~]$
```

Launching the scheduler and fetching data in Flex table

```
[mydba@rindanil ~]$ /opt/vertica/packages/kafka/bin/vkconfig launch --conf /home/mydba/config.properties
```

```
mydba@rindanil:~  
_identity_ |      _raw_  
-----  
750003 | Test Test  
750005 | Hi  
750001 | check chek  
750002 | Integration Test  
750004 | Kafka Vertica Integration test  
(5 rows)
```

```
mydba=> select * from kafka_tgt;  
_identity_ |      _raw_  
-----  
750003 | Test Test  
750005 | Hi  
750001 | check chek  
750002 | Integration Test  
750004 | Kafka Vertica Integration test  
(5 rows)
```

```
mydba=>  
mydba=> select * from kafka_tgt;  
_identity_ |      _raw_  
-----  
750003 | Test Test  
750005 | Hi  
750001 | check chek  
750002 | Integration Test  
750004 | Kafka Vertica Integration test  
1500001 | It finally works! :)  
(6 rows)
```

```
mydba=>
```

```
mydba@rindanil:~/kafka_2.10-0.9.0.1  
login as: mydba  
mydba@10.30.30.131's password:  
Last login: Mon Sep 19 13:54:03 2016 from 10.10.241.222  
[mydba@rindanil ~]$ cd kafka_2.10-0.9.0.1  
[mydba@rindanil kafka_2.10-0.9.0.1]$ bin/kafka-console-producer.sh --broker-list localhost:9092  
--topic test  
Kafka Vertica Integration test  
Hi  
It finally works! :)
```