**Using NiFi to Create a Pipeline in Cassandra**

The NifiNetwork Docker network and the NiFi and Cassandra containers are created.

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A bash window for the Cassandra server is started from the Docker desktop, and the cqlsh command is run to execute queries against the Cassandra database.

A screenshot of a computer program

Description automatically generated

The provided code is copied into the Cassandra bash shell to create a data table for the Cassandra database and “Peter Parker” is inserted into the “person” table.

A screenshot of a computer screen

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The NiFi UI is started by navigating to <https://localhost:8080/nifi>.

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A process group named Cassandra-test is created.

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The gear icon inside the Cassandra-test process group is selected to configure the process group. The Cassandra Contact Points, Client Auth, and Keyspace fields in the PROPERTIES tab are set correctly.

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The CassandraSessionProvider controller is enabled.

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A processor is dropped onto the NiFi canvas and “Cassandra” is filtered to select the QueryCassandra type. The fields in the PROPERTIES tab are set.

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A MySQL connector is created by running the specified command in the Terminal window. The person table in the people database is generated using the given queries in MySQL Workbench.

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The MySQL container is connected to NiFi using a DBCPConnectionPool connector.

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A SplitJSON processor is added to the pipeline and connected to the QueryCassandra processor. The values in the SETTINGS and PROPERTIES tabs are set correctly.

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A ConvertJSONToSQL processor is added and connected to the SplitJSON processor. The fields in the SETTINGS and PROPERTIES tabs are set.

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The QueryCassandra, SplitJSON, and ConvertJSONToSQL processors are connected with the appropriate relationship types.

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A PutSQL processor is added. The fields in the SETTINGS and PROPERTIES tabs are set, and the processor is connected to the ConvertJSONToSQL processor by an sql relationship.

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Each processor is run, and the data propagation through the pipeline is observed. A query is executed in the MySQL Workbench to confirm the data addition to the MySQL database.

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