## Workflows

# **Module Objectives**

In this module, you will look at:

- What are Workflows
- Creating a Workflow
- Implementing a Workflow

#### Workflows

- Workflows are used to execute a series of MapReduce jobs
- A Workflow is given a sequence of jobs that follow each other, with an optional schedule to run the Workflow periodically
- On successful execution of a job, the control is transferred to the next job in sequence until the last job in the sequence is executed
- On failure, the execution is stopped at the failed job and no subsequent jobs in the sequence are executed

To process one or more MapReduce jobs in sequence, specify withWorkflows() in your application:

```
public ApplicationSpecification configure() {
return ApplicationSpecification.Builder.with()
...
.withWorkflows()
.add(new PurchaseHistoryWorkflow())
```

#### Implement the Workflow Interface

- Requires the configure() method
- From within configure, call the addSchedule() method to run a WorkFlow job periodically:

#### Workflow with a single MapReduce Job

If there is only one MapReduce job to be run as a part of a WorkFlow, use the onlyWith() method after setDescription() when building the Workflow:

## **Module Summary**

You should be able to:

- Define a Workflow
- Create Workflows
- Implement Workflows

# **Module Completed**