

# SPARK 3 WORKBOOK ANSWERS

## MODULE 7

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#### Spark 3 Workbook Answers: Module 7

**Question 1: What is the purpose of the `DataFrameReader.format()` method?**

**Answer:** The `DataFrameReader.format()` method specifies the input data source format for reading data into a `DataFrame`. It supports various formats, such as CSV, JSON, Parquet, and ORC.

**Question 2: Explain the difference between the `load()` and `save()` methods in Spark `DataFrame`.**

**Answer:** The `load()` method reads data from an external data source into a `DataFrame`, while the `save()` method persists a `DataFrame` to an external data source. They both take a path parameter to specify the source or destination location.

**Question 3: What is the purpose of the `spark.readStream()` method?**

**Answer:** The `spark.readStream()` method creates a streaming `DataFrame` that continuously reads data from a data source. It supports streaming sources such as Kafka, Flume, and Kinesis.

**Question 4: Explain the concept of streaming windows in Spark. What are the types of streaming windows?**

**Answer:** Streaming windows define a time period for processing streaming data. Spark supports three types of windows:

- **Tumbling Window:** A fixed-sized window that moves forward in time, discarding old data.
- **Sliding Window:** A sliding window that overlaps with adjacent windows, allowing data to be processed multiple times.
- **Hopping Window:** A series of tumbling windows that overlap but do not slide, providing partial results at intervals.

**Question 5: What is the purpose of the `DataFrameWriter.mode()` method?**

**Answer:** The `DataFrameWriter.mode()` method specifies the save mode when writing a `DataFrame` to an external data source. It supports three modes:

- **Overwrite:** Replaces existing data with new data.
- **Append:** Appends new data to the end of existing data.
- **Ignore:** Skips writing data if the destination already exists.

## **The Power of Habit: Unlocking the Secrets of Our Routines**

**Question 1: What is a habit? Answer:** According to Charles Duhigg in his book "The Power of Habit," a habit is an automatic behavior triggered by a cue that produces a reward. It involves a three-step loop: cue, routine, reward.

**Question 2: How are habits formed? Answer:** Habits are formed through repetition and reinforcement. When we engage in a behavior that produces a desirable outcome, the brain strengthens the neural pathways associated with that behavior. Over time, the behavior becomes automatic and less effortful.

**Question 3: Can habits be changed? Answer:** Yes, habits can be changed, but it requires conscious effort and persistence. Duhigg suggests identifying the cue, routine, and reward associated with the habit and then altering one or more components to create a new habit.

**Question 4: What is the role of willpower in habit formation? Answer:** Willpower is important in the initial stages of habit change, but it can be depleted over time. Duhigg emphasizes the importance of creating habits that are self-sustaining and require minimal willpower to maintain.

**Question 5: How can we use the power of habit to improve our lives? Answer:**

Understanding the power of habit can empower us to create positive habits and break negative ones. By identifying and modifying our routines, we can improve our health, productivity, and overall well-being.

**The Making of Modern Economics: Lives and Ideas of Great Thinkers**

Economics, the study of how societies allocate scarce resources, has a rich history shaped by the contributions of many brilliant thinkers. In his book "The Making of Modern Economics," financial historian Mark Skousen explores the lives and ideas of these intellectual giants, uncovering the origins of the economic concepts that guide us today.

**Q1: Who were some of the key figures in the development of economics?**

**A1:** Skousen highlights influential economists such as Adam Smith, David Ricardo, Thomas Malthus, and Karl Marx. These thinkers challenged prevailing beliefs and laid the foundation for modern economic theory.

**Q2: How did Adam Smith contribute to economics?**

**A2:** Smith is widely regarded as the father of modern economics. His seminal work, "The Wealth of Nations," introduced the concept of the "invisible hand" and emphasized the importance of free markets and the division of labor.

**Q3: What was the significance of Thomas Malthus's ideas?**

**A3:** Malthus theorized that population growth would inevitably outpace food production, leading to widespread poverty and famine. His pessimistic outlook influenced economic policies for decades.

**Q4: How did Karl Marx's work impact economics?**

**A4:** Marx's revolutionary ideas challenged the capitalist system. He argued that the working class was exploited by the owners of capital and predicted the eventual collapse of capitalism.

**Q5: What lasting impact have these great thinkers had on modern economics?**

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**A5:** The ideas of these intellectual giants continue to shape our understanding of economics. Their theories inform government policies, business decisions, and personal financial planning. They provide a foundation for addressing complex economic challenges and ensuring the well-being of societies.

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**Who created the Sanford Guide?** Created by Jay P. Sanford, M.D. in 1969, the Sanford Guide was the outgrowth of a medical grand rounds handout on newer antibacterial agents.

**Who is the owner of Sanford?** Sanford was established in 2004, owned and operated by Sanford Middle East DWC headquartered in Dubai World Central, Dubai. The group handles designing, manufacturing, assembling, importing, exporting, and retail of electronics and home appliances.

**Who is the author of the guide?** The Guide is a 1958 novel written in English by the Indian author R. K. Narayan. Like most of his works, the events of this novel take place in Malgudi, a fictional town in South India.

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[\*the power of habit charles duhigg, the making of modern economics lives and ideas great thinkers mark skousen, sanford guide to antimicrobial therapy 2013 pocket edition guide to antimicrobial therapy sanford by gilbert david n ed 43rd forty third edition 412013\*](#)

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