Quiz 7 - More on Spark

- 1. Which part of SPARK is in charge of creating RDDs?
 - Driver Program
 - Local CPU
 - Storage
 - Spark Executor
 - Worker Node
- 2. How does lazy evaluation work in Spark?
 - Transformations are queued and executed at a certain threshold.
 - Transformations are not executed until the action stage.
 - Actions are queued and executed at a certain threshold.
 - Actions are not executed until the transformation stage.
- 3. What are the consequences of lazy evaluation as mentioned in lecture?
 - Errors sometimes do not show up until the action stage.
 - Hiccups within the system during queue execution.
 - There are no consequences.
- 4. What is a wide transformation?
 - A transformation that requires data shuffling across node partitions.
 - Transformations that take a lot of nodes to complete.
 - A longer time-taking transformation compared to narrow transformations.
 - The name for the most used transformations.

5. Where does the data for each worker node get sent to after a collect function is called?

- Other Worker Nodes
- Spark Streaming
- Spark Context
- None; Stays in the Same Node
- Spark SQL

6. What are DataFrames?

- A special type of data node that contains framework to manipulate SQL.
- A column like data format that can be read by Spark SQL.
- A type of narrow transformation.

7. Can RDD's be converted into DataFrames directly without manipulation?

- Yes
- No: lines have to be converted into row.
- No: RDD's needed to be made relational first.
- No: RDD's cannot be converted into DataFrames.

8. What is the function of Spark SQL as mentioned in lecture? (Choose 3)

- Efficient data manipulation using SQL like structure.
- Enables relational queries on Spark.
- Deploy business intelligence tools over Spark.
- Connect to variety of databases.
- Better ability to manipulate big data.
- Better worker node interpolation.

9. What is a triplet in GraphX?

- A type of data to contain vertex info.
- A type of data to contain the information on connections between vertices and edges.
- A type of data to contain both edge and vertex info.
- A type of data to contain edge info.