

## Week 5 Honors Quiz

### Question 1

What is a view in Hive or Impala? Check all that apply.

Ans: A way to simplify access to a table for operations that are frequently repeated  
A way to restrict access to certain columns

### Question 2

What happens in the file system when you drop a (non-materialized) view with Hive or Impala?

Ans: No data is deleted

### Question 3

Which of the following can help you find out how Hive or Impala will execute a query? Check all that apply.

Ans: Add **EXPLAIN** at the beginning of the query and execute it as you would a normal query

Enter the query in Hue and click the folded map icon

### Question 4

Following is a query and the first portion of the Hive execution plan for it. Which stages will be done before Stage-2? Check all that apply.

```
SELECT country, empl_id, COUNT(c.cust_id) AS num  
FROM customers c  
JOIN orders o ON (c.cust_id = o.cust_id)  
GROUP BY country, empl_id;
```

Ans: Stage-5

### Question 5

Under what circumstances might it be a good idea to use partitioning? Check all that apply.

Ans: The data is very large and queries take too long to complete

Most queries filter the data based on one or two specific columns

The data files are already divided into subdirectories whose names specify a value not given in the files

### Question 6

Which column would make a good partition column?

Ans: A categorical column with a reasonable number of different values

### Question 7

Which complex data type represents key-value pairs, with all keys having the same data type and all values having the same type? (However, a key and its associated value may have different types.)

Ans: MAP

Question 8

True or false: The fields in a **STRUCT** may have different data types.

Ans: True

Question 9

When using Impala to query tables with complex columns, which file formats can you use to store the data? Check all that apply.

Ans: Parquet

Question 10

Which of the following statements accurately describe storage engines like HBase and Kudu? Check all that apply.

Ans: They encapsulate data storage, exposing a high-level interface to the data  
**They abstract away the details of how the data is stored using specific file formats**