**ACD\_BDD\_Session\_14\_Assignment\_2\_Main**

**Problem Statement**

**Give brief answers to the questions below:**

**1. Is it possible to use same meta store by multiple users in case of embedded Hive, if no then why?**

-> No, it is not possible to use same meta store by multiple users in case of embedded Hive.

**2. What is SerDe in Hive?**

-> SerDe is a short name for a Serializer Deserializer. Hive uses SerDe (and FileFormat) to read and write data from tables. An important concept behind Hive is that it DOES NOT own the Hadoop File System (HDFS) format that data is stored in. Users are able to write files to HDFS with whatever tools/mechanism takes their fancy("CREATE EXTERNAL TABLE" or "LOAD DATA INPATH," ) and use Hive to correctly "parse" that file format in a way that can be used by Hive. A SerDe is a powerful (and customizable) mechanism that Hive uses to "parse" data stored in HDFS to be used by Hive.

**3. What is the functionality of query processor in Apache Hive?**

-> This component implements the processing framework for converting SQL to a graph of map/reduce jobs and the execution time framework to run those jobs in the order of dependencies.

**4. How can Hive avoid MapReduce?**

-> If we set the property hive.exec.mode.local.auto to true then hive will avoid mapreduce to fetch query results.

**5. What are the types of table in Hive?**

-> There are 2 types of table available in Hive. Managed table/Internal table and External table

**6. Does Hive support record level insert, delete or update?**

-> No, Hive does not support record level insert, delete or update.

**7. What are the binary storage formats supported in Hive?**

-> SEQUENCE FILE format is the binary storage format supported in Hive.

**8. What is the difference between external table and internal table in Hive?**

-> Internal/Managed table:

* In managed table both the data and schema is under control of Hive.
* When we drop a managed table, Hive deletes the data in the table.

External table:

* In external table only the schema is under control of Hive.
* Dropping the external table does not delete the data, although the metadata for the table will be deleted.