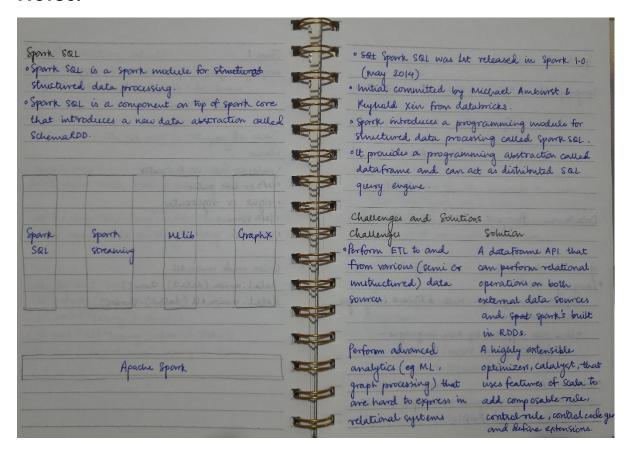
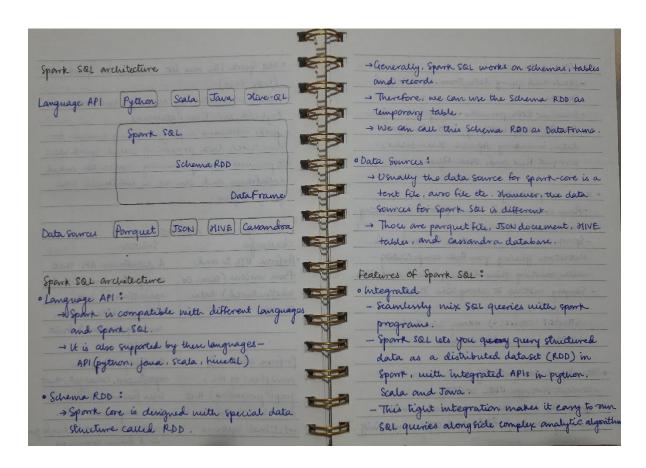
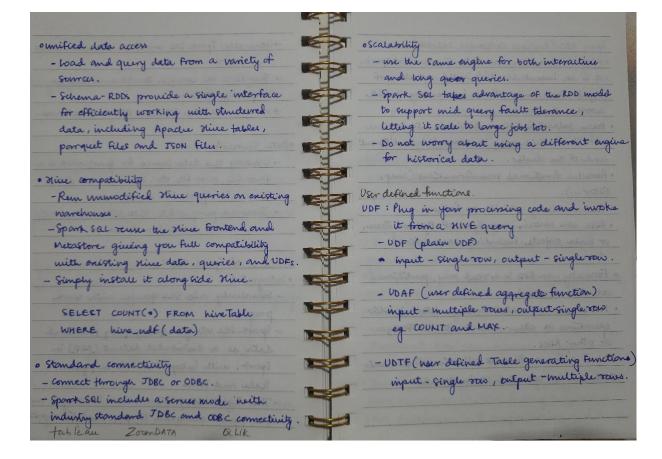
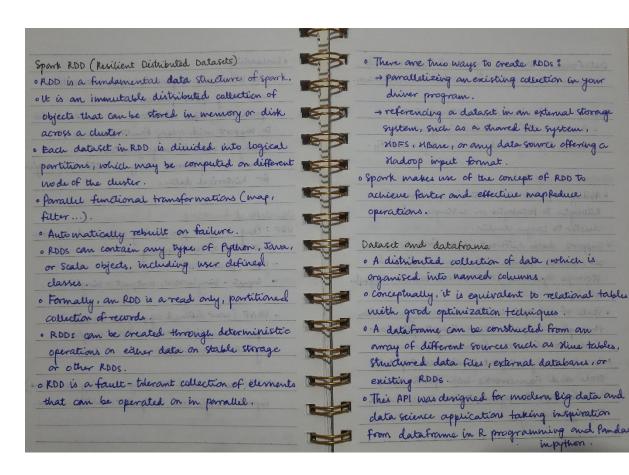
VAISHALI BOKADIYA PYSPARK DAY 5 ASSESSMENT

Notes:









Dataframe - Data is organised into named Spork SQL. The whole story columns, like a table in a relational database o Create and Run Spark Programs Faster: 1. Write less code Dataset - a distributed collection of data. 2. Read less data 3. Let the optimizer do the hard work. · A new interface added in spark 1.6. · Static typing and ountine type safiety. · NDD us datafraine · unified interface to reading / writing data in Features of dataFrame · Ability to process the data in the size of a variety of formats Rilobytes to Petabytes on a single node df = sqlContext. read cluster to large cluster. functions create · Supports data different data formats (auro, · format('json') \ . option ('sampling Ratio', '0.1')\ new builders csv, elastic search and cassandra) and storage systems (MDFS, MIVE tables, mysql, · boad ('Inome/data json') for doing 110 19 . Builder methods are used to specify: df.novite \ · State of art optimization and code generation .format ('parquet') Horough the Spark SQL Catalyst optimizer - Partioning · mode ('append') (tree transformation framework) 1 -> Handling of existing · partion partitionly (year) · Can be easily integrated with all Big date data and more · Save As Table ('Faster Data') totals and frameworks via Spark-core. o boad (...), save (...) or save As Table (...) o Provides API for python, Java, Scala, and functions encate new builders for doing 110 & programming.

Apache Hive is a distributed, fault tolerant data wavehouse system that enables analytics at a massive scale. Hive Metastore (MMS) a provides a central repository of metadata that can easily be analyzed to make informed, data driven decisions, and therefore it is a critical component of many data to lake architectures. Nive is built on top of Apache Madoop and supports storage on \$3, adls, 9s etc through MDFS. Mive allows users to read, write and manage parabytes of data using sal.

Plan Optimization and execution DataFrames and SEL Share the same optimization execution pipeline. SOLAST DataFrame Unresolved Analysis Logical plan Catalog Logical plan Logical optimization Optimized logical plan Physical physical plans. planning Cost model Selected physical plan Code Generation. RDDS

Windows functions.

• mindows functions are used in conjunction with mutate and filter to some a wide range of problems.

• delyr supports spart SEL mindow functions.

• You can compare the delyr syntax to the query it has generated by using sql-render().

Practice:

