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use bytes). Also, Habas tables are made of column families which are the logical and physical grouping of columns. The columns in one family are stored separately from the columns in another family. A column families reduce the number of keys stored in the key-value pairs in the underlying key-value store. Column families reduce the number of keys stored in the key-value store, resulting in improved performance during operations. We are going to treate all rows using the difference) and apoly strencode() to get the strings encoded to bytes. Manually nutting all the covaciums in the littles table using the previous methods mentioned. I my_table = (table all rows using the difference) is the column family name for data storation column_families = ('worker' (')) # column family name for data storation column_families = ('worker' (')) # column family name for data storation column_families = ('worker' (')) # finance of all rows using difference all rows using difference of all rows using d	
for index, row in eff.itocrows(): # iterate all rows using df.iterrows() data = { # data dictionary	
Lets open a connection again and since PySpark "createDataFrame" seems to be expecting strings, I decided to convert data dictionary byteString key-value pairs to strings using 'utf-8' in order to print the DataFrame. After performing this operations from HomeWork 4 using the family column 'worker'. hostname = 'Vicentes-MacBook-Air.local' # my HBase host name port = 9090 # default HBase port	
# converting data's byteString key-value pairs to strings using 'utf-8'	ation, we implement
<pre># I decided to do this after getting this error: # df = spark.createDataFrame(data), AssertionError: field name b'worker:Birth_Country' should be a string # scanning over rows in the table data = [{k.decode('utf-8'): v.decode('utf-8') for k, v in dict.items()} for key, dict in table.scan()] : sparkhb_df = spark.createDataFrame(data) sparkhb_df.show(n=5, truncate=False) [Stage 0:> (0 + 1) / 1]</pre>	
worker:Birth_Country worker:Email worker:First_Name worker:Income worker:Job worker:Last_name worker:Loan_Approved worker:SSN	
<pre>sparkhb_df.printSchema() # You can see worker family column root</pre>	
<pre>df_temp = sparkhb_df.createOrReplaceTempView('Temporary_HBase_Table') # creating temporary table # Checking if temporary table exists or not table_exists = spark.catalog.tableExists('Temporary_HBase_Table') if table_exists: print('Temporary_HBase_Table exists') else: print('Temporary_HBase_Table does not exist') Temporary_HBase_Table exists</pre>	
<pre>Question 1 : query_1 = spark.sq1('''</pre>	
<pre>guery_1.show(truncate = False) [Stage 77:></pre>	
<pre>guery1_sql = query_1.first()[0] print('Birth country which has highest amount of people is:', query1_sql) Birth country which has highest amount of people is: Korea Question 2 query_2 = spark.sql('''</pre>	
query_2.show(truncate = False) worker:Birth_Country	
the state of the s	
<pre>Question 4 query_4 = spark.sql(''' SELECT `worker:First_Name`, `worker:Income`, `worker:Job` FROM Temporary_HBase_Table WHERE `worker:Birth_Country` = 'United States of America' ORDER BY `worker:Income` DESC LIMIT 10; ''') query_4.show(truncate = False)</pre>	
worker:First_Name worker:Last_Name worker:Job Bobby	
<pre>guery_5 = spark.sql('''</pre>	
fuery5_sql = query_5.first()[0] print('How many number of distinct jobs are there?:', query5_sql, 'jobs.') How many number of distinct jobs are there?: 639 jobs. Question 6	
<pre>clear query_6 = spark.sql('''</pre>	
Count_Writers_Icome_Less_Than_100K +	
Now, lets finish and close connection. connection.close() # closing connection References:	