Exp. No: 5a

Designing and testing various schema models to optimize data storage and retrieval using Hive.

1. Start hive

```
narini@fedora:~$ hive
which: no hbase in (/home/harini/.local/bin:/home/harini/bin:/usr/local/bin:/usr
/local/sbin:/usr/bin:/usr/sbin:/usr/lib/jvm/java-ll-openjdk/bin:/home/harini/had
oop/bin:/home/harini/hadoop/sbin:/home/harini/pig/bin:/home/harini/hive/bin:/usr
/lib/jvm/java-ll-openjdk/bin:/home/harini/hadoop/bin:/home/harini/hadoop/sbin:/h
ome/harini/pig/bin:/home/harini/hive/bin)
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/harini/hive/lib/log4j-slf4j-impl-2.10.0.
jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/harini/hadoop/share/hadoop/common/lib/sl
f4j-reload4j-1.7.36.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
```

2. CREATE DATABASE financials in hive

```
hive> CREATE DATABASE financials;
OK
Time taken: 8.319 seconds
```

3. Use financials database in hive

```
hive> use financials;
OK
Time taken: 0.591 seconds
```

4. Create Finance table table in hive

```
hive> CREATE TABLE finance_table( id INT, name STRING );
OK
Time taken: 7.98 seconds
```

```
hive> INSERT INTO finance_table VALUES (1, 'Alice'), (2, 'Bob'), (3, 'Charlie');

Query ID = hayagreevan_20240920110953_28c8669c-6564-4aa2-9392-f8adbe779f31
Total jobs = 3
Launching Job 1 out of 3
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
    set hive.exec.reducers.bytes.per.reducers-cnumber>
In order to limit the maximum number of reducers:
    set hive.exec.reducers.maxe-cnumber>
In order to set a constant number of reducers:
    set hive.exec.reducers.maxe-cnumber>
In order to set a constant number of reducers:
    set mapreduce.job.reduces=cnumber>
Starting Job = job_1726810143118_0001, Tracking URL = http://fedora:8088/proxy/application_1726810143118_0001/
Kill Command = /home/hayagreevan/hadoop/bin/mapred job = kill job_1726810143118_0001
Kill Command = /home/hayagreevan/hadoop/bin/mapred job = kill job_1726810143118_0001/
Kill Command = /home/ha
```

6. Creating new VIEW named myview for finance_table

```
hive> CREATE VIEW myview AS SELECT name, id FROM finance_table;
OK
Time taken: 1.849 seconds
```

7. Display myview.

```
hive> SELECT * FROM myview;
OK
Alice 1
Bob 2
Charlie 3
Time taken: 4.11 seconds, Fetched: 3 row(s)
```

8. Describing finance_table structure.

```
hive> DESCRIBE finance_table;
OK
id int
name string
Time taken: 0.447 seconds, Fetched: 2 row(s)
```

9. Add new age column to Finance_table

```
hive> ALTER TABLE finance_table ADD COLUMNS (age INT);
OK
Time taken: 1.46 seconds
```