Capstone Project: Instant Health Alert System - Final-Project Submission

Building an External Hive Table for Patients Vital Info

Introduction:
This document provides an explanation of the Hive script used to build an external table for storing patients vitals data.

1. Create and Use Database

The code starts by creating a new database named `health` and setting it as the active database. This ensures that the subsequent table creation occurs within the `health` database, keeping all health-related data organized.

```
hive;
create database health;
use health;
```

```
Logging initialized using configuration in file:/etc/hive/conf.dist/hive-log4j2.properties Async: false
hive> create database health;
OK
Time taken: 0.48 seconds
hive> use health;
OK
Time taken: 0.02 seconds
hive>
```

2.Create External Table `patients_vital_info`

This section creates an external Hive table named `patients_vital_info`. External tables are used when data is stored outside of Hive's own data warehouse;

```
CREATE EXTERNAL TABLE health.patients_vital_info (
    customerId int,
    heartBeat int,
    bp int,
    message_time timestamp)
STORED AS PARQUET
LOCATION '/user/hadoop/health-alert/patients-vital-info/'
TBLPROPERTIES ('parquet.compress'='SNAPPY');
```

```
hive> CREATE EXTERNAL TABLE health.patients_vital_info (
    >     customerId int,
    >     heartBeat int,
    >     bp int,
    >     message_time timestamp)
    > STORED AS PARQUET
    > LOCATION '/user/hadoop/health-alert/patients-vital-info/'
    > TBLPROPERTIES ('parquet.compress'='SNAPPY');
OK
Time taken: 0.055 seconds
```

3. Viewing the data

Select * from health.patients_vital_info;

```
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
3       70      173     2024-11-11 07:39:50.001
4       71      153     2024-11-11 07:39:50.001
5       71      177     2024-11-11 07:39:50.001
1       77      199     2024-11-11 07:39:50.001
2       70      179     2024-11-11 07:39:50.001
3       72      165     2024-11-11 07:39:50.001
4       71      175     2024-11-11 07:39:50.001
5       69      172     2024-11-11 07:39:50.001
1       72      212     2024-11-11 07:39:50.001
2       72      155     2024-11-11 07:39:50.001
3       71      151     2024-11-11 07:42:00.001
4       66      154     2024-11-11 07:42:00.001
5       72      153     2024-11-11 07:42:00.001
1       73      169     2024-11-11 07:42:00.001
2       69      158     2024-11-11 07:42:00.001
3       69      161     2024-11-11 07:42:00.001
4       70      154     2024-11-11 07:42:00.001
5       71      180     2024-11-11 07:42:00.001
1       75      169     2024-11-11 07:42:00.001
2       71      164     2024-11-11 07:42:00.001
3       66      164     2024-11-11 07:39:30.002
4       66      171     2024-11-11 07:39:30.002
5       73      172     2024-11-11 07:39:30.002
1       73      175     2024-11-11 07:39:30.002
2       73      176     2024-11-11 07:39:30.002
3       70      166     2024-11-11 07:39:30.002
4       68      152     2024-11-11 07:39:30.002
5       73      173     2024-11-11 07:39:30.002
1       77      203     2024-11-11 07:39:30.002
2       67      165     2024-11-11 07:39:30.002
4       69      167     2024-11-11 07:34:40.001
5       69      177     2024-11-11 07:34:40.001
1       72      180     2024-11-11 07:34:40.001
2       69      163     2024-11-11 07:34:40.001
3       66      160     2024-11-11 07:34:40.001
4       69      153     2024-11-11 07:34:40.001
```