CONTINUOUS ASSESSMENTS (C.A)-2

ST_NAME   : -   **EKHLAKH AHMAD**
REG NO.   : -   **12209166**
ROLL NO.   : -   **RD2215B50**
SECTION   : -   **D2215**
GROUP   : -   **2**
DATE   : -   **09/03/2023**

Q.1.

SET II

Question Number	Question Statement (**Table name should be your name**)	Course Outcome	Bloom's level	Marks per Question
Q1	Create a partition table for library (Book_id, Book_name, **Book_publisher**) in hive and do the following partition types: 1. Load the data from local 2. Apply static partition 3. Apply Dynamic partition	CO3	L1: Apply	30

Ans: - **CREATE DATABASE WITH MY NAME EKHLAKH**

```
cloudera@quickstart:~
File  Edit  View  Search  Terminal  Help

hive> create database ekhlakh;
OK
Time taken: 0.854 seconds
```

USE THIS DATABASE FOR CREATION TABLE.

```
hive> use ekhlakh;
OK
Time taken: 0.035 seconds
```

CREATE TABLE WITH NAME LIBRARY AND INSERT SOME DETAILS.

```
hive> create table library (Book_id int, Book_name string, Book_publisher string
)
    > partitioned by (year int)
    > row format delimited
    > fields terminated by ',';
OK
Time taken: 0.955 seconds
```

SHOW TABLE DETAILS.

```
hive> describe library;
OK
book_id                 int
book_name               string
book_publisher          string
year                    int

# Partition Information
# col_name              data_type               comment

year                    int
Time taken: 0.617 seconds, Fetched: 9 row(s)
hive>
```

INSERT DATA TO TABLE.

```
hive> load data local inpath '/home/cloudera/Desktop/book' into table library
    > partition (year=2020);
Loading data to table ekhlakh.library partition (year=2020)
Partition ekhlakh.library{year=2020} stats: [numFiles=2, numRows=0, totalSize=18
2, rawDataSize=0]
OK
Time taken: 2.25 seconds
hive>
```

STATIC PARTITION 2022.

```
hive> load data local inpath '/home/cloudera/Desktop/book' into table library pa
rtition(year=2022);
Loading data to table ekhlakh.library partition (year=2022)
Partition ekhlakh.library{year=2022} stats: [numFiles=1, numRows=0, totalSize=16
1, rawDataSize=0]
OK
Time taken: 2.764 seconds
hive>
```

SHOW TABLE.

```
hive> select * from library;
OK
1       book a  publisher x      2020
1       sonpal  math    2020
2       satish  networking       2020
3       saroj   c++     2020
4       saurabh web_technology   2020
5       ekhlakh fundamental      2020
6       harsh   enlish  2020
7       hamid   technical        2020
2       book b  publisher y      2021
3       book c  publisher z      2021
1       sonpal  math    2021
2       satish  networking       2021
3       saroj   c++     2021
4       saurabh web_technology   2021
5       ekhlakh fundamental      2021
6       harsh   enlish  2021
7       hamid   technical        2021
1       sonpal  math    2022
2       satish  networking       2022
3       saroj   c++     2022
4       saurabh web_technology   2022
```

SHOW DATA FROM PARTITION 2022.

```
hive> select * from library where year=2022;
OK
1       sonpal  math    2022
2       satish  networking      2022
3       saroj   c++     2022
4       saurabh web_technology  2022
5       ekhlakh fundamental     2022
6       harsh   enlish  2022
7       hamid   technical       2022
Time taken: 3.416 seconds, Fetched: 7 row(s)
hive> █
```

FOR DYNAMIC PARTITION.

```
hive> set hive.exec.dynamic.partition=true;
hive> set hive.exec.dynamic.partition.mode=nonstrict;
hive> █
```

CREATE DYNAMIC TABLE.

```
hive> create table dynamic (book_id int, book_name string, book_publisher string
) row format delimited fields terminated by ',';
OK
Time taken: 0.517 seconds
```

LOAD DATA INTO TABLE.

```
hive> load data local inpath '/home/cloudera/Desktop/book' into table dynamic;
Loading data to table ekhlakh.dynamic
Table ekhlakh.dynamic stats: [numFiles=1, totalSize=161]
OK
Time taken: 1.553 seconds
hive> █                              ↓
```