## **Advance Views**

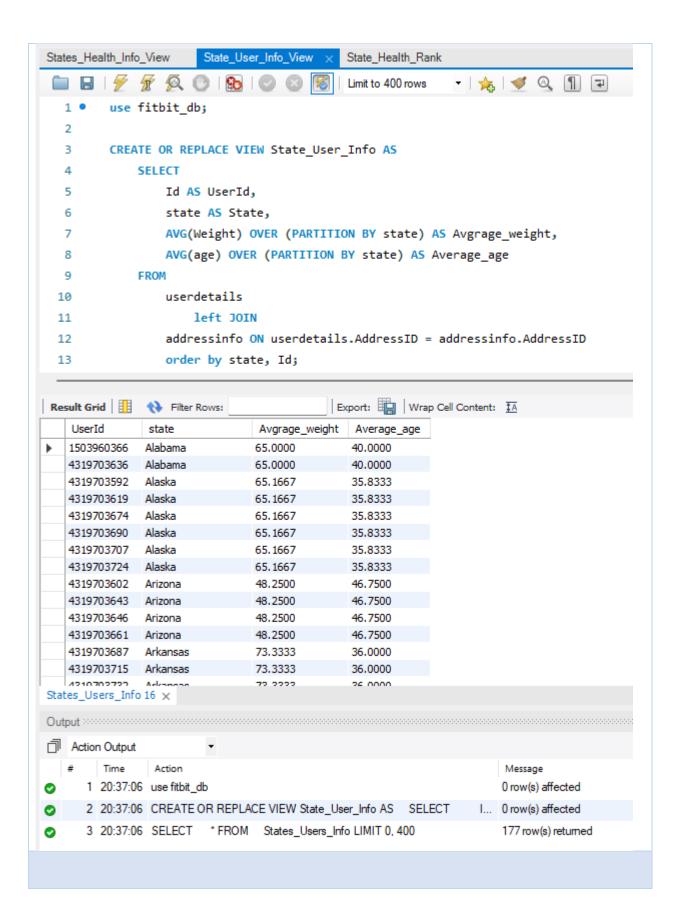
## **View Name: STATES\_HEALTH\_INFO**

This view calculates a state residents' average steps counts, average distance traveled, and calories burned, and compares it with standard recommendations to categorize the state as a healthy state or unhealthy state.

```
SQL Code:
USE fitbit_db;
CREATE OR REPLACE VIEW states_health_info AS
SELECT
 AVG(TotalSteps) AS Avgerage_steps,
 AVG(TotalDistance) AS Average_distance,
 AVG(Calories) AS Average_colories,
 IF ((AVG(TotalSteps) > 5000 && AVG(TotalDistance) > 5 && AVG(Calories) > 2000),
"Healthy", "Not Healthy") AS Health_status
 FROM dailyactivity
 WHERE Id IN
 ( SELECT Id
  FROM State_User_Info
  WHERE state = "Utah"
 );
SELECT
FROM
  states_health_info;
Results:
```

```
1 •
         USE fitbit_db;
  2
         CREATE OR REPLACE VIEW states_health_info AS
  3 •
          SELECT
           AVG(TotalSteps) AS Avgerage_steps,
  5
           AVG(TotalDistance) AS Average_distance,
           AVG(Calories) AS Average_colories,
  7
           IF ((AVG(TotalSteps) > 5000 && AVG(TotalDistance) > 5 && AVG(Calories) > 2
  8
           FROM dailyactivity
  9
           WHERE Id IN
 10
           ( SELECT Id
 11
            FROM State_User_Info
 12
              WHERE state = "Utah"
 13
 14
           );
 15
 16 •
         SELECT
 17
         FROM
 18
 19
             states health info;
 20
Export: Wrap Cell Content: IA
   Avgerage_steps Average_distance
                                  Average_colories
                                                 Health_status
6574.8869
                 4.466812326365042 1952.7943
                                                 Not Healthy
states_health_info 25 ×
Action Output
              Action
       Time
                                                                    Message
     1 15:34:24 USE fitbit_db
                                                                   0 row(s) affected
     2 15:34:24 CREATE OR REPLACE VIEW states_health_info AS SELECT AVG... 0 row(s) affected, 2 warning(s
     3 15:34:24 SELECT *FROM states_health_info LIMIT 0, 400
                                                                   1 row(s) returned
View Name: STATES_HEALTH_INFO
```

```
This view returns state wise userId, average weight and average age.
SQL Code:
use fitbit_db;
CREATE OR REPLACE VIEW State_User_Info AS
  SELECT
    Id AS UserId,
    state AS State,
         AVG(Weight) OVER (PARTITION BY state) AS Avgrage_weight,
    AVG(age) OVER (PARTITION BY state) AS Average_age
  FROM
    userdetails
      left JOIN
    addressinfo ON userdetails.AddressID = addressinfo.AddressID
    order by state, Id;
SELECT
FROM
  States_Users_Info;
Results:
```



## **View Name: USER HEALTH RANK**

This view assigns the rank to the user based on the avg calories burn.

```
SQL Code:
use fitbit db;
CREATE OR REPLACE VIEW USER HEALTH RANK AS
WITH USER STATES as
(SELECT
      Id AS UserId,
      state AS State
  FROM userdetails
      left JOIN
    addressinfo ON userdetails.AddressID = addressinfo.AddressID),
USER_HEALTH_INFO as
(Select DENSE RANK() OVER (ORDER BY avg(Calories)) AS 'health rank',
    Id.
             round(avg(Calories), 2) as Average_Calories_Burn,
    TotalMinutesAsleep,
    Count(*) as No_Of_Records
from dailyactivity
left join sleeptime
on dailyactivity.SleepId = sleeptime.SleepId
group by Id)
SELECT
FROM USER_HEALTH_INFO join
  USER STATES
  ON USER_STATES.UserId = USER_HEALTH_INFO.Id
ORDER BY health_rank;
SELECT health_rank, Id, Average_Calories_Burn, state
FROM USER HEALTH RANK;
Results:
```

