Views

Code:

```
1 •   use dsba_6160_project;
2
3 •   DROP VIEW IF EXISTS View1;
4 •   CREATE VIEW View1 AS
5     SELECT TotalSteps, Calories,
6         IF(TotalSteps > 9999, 'Walked a lot', 'Did not walk alot')
7         AS Walked
8     FROM dailyactivitymain
9     WHERE TotalSteps >
10        (SELECT AVG(totalsteps)
11        FROM dailyactivitymain)
12    GROUP BY TotalSteps
13    ORDER BY TotalSteps DESC;
14 •  SELECT * FROM View1;
```

Output

Action Output

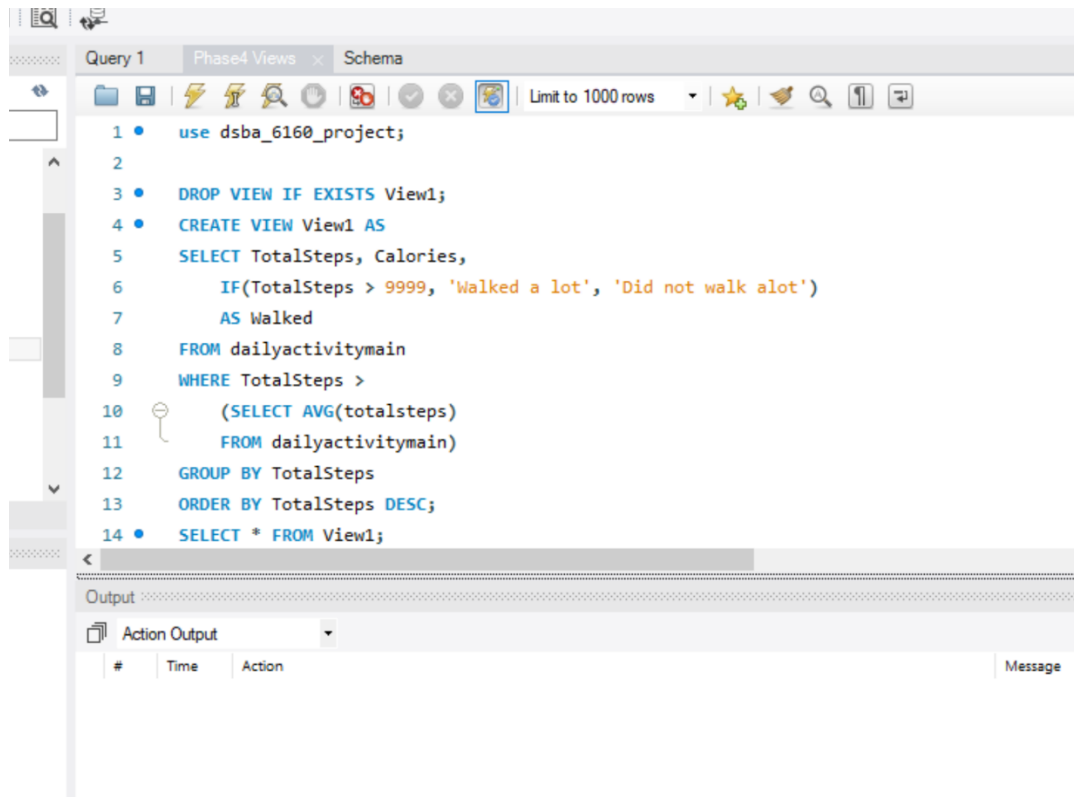| #	Time	Action	Message

```
15
16 •  DROP VIEW IF EXISTS View2;
17 •  CREATE VIEW View2 AS
18    SELECT AVG(calories) as AvgCalories, MIN(Calories) AS FewestCalories, MAX(Calories) AS MostCalories;
19    AVG(TotalSteps) AS AvgSteps, MIN(TotalSteps) AS FewestSteps, MAX(TotalSteps) AS MostSteps
20    FROM dailyactivitymain;
21 •  SELECT * FROM View2;
22
```

```
23 •   DROP VIEW IF EXISTS View3;
24 •   CREATE VIEW View3 AS
25        WITH CTE AS (
26            SELECT SUM(TotalSteps) OVER(partition by id) AS SumSteps,
27                SUM(TotalDistance) OVER(partition by id) AS SumDistance,
28                SUM(Calories) OVER(partition by id ) AS SumCalories,
29                ROW_NUMBER() over (PARTITION BY ID ORDER BY ID) as RowNumber
30            FROM dailyactivitymain)
31    SELECT * FROM CTE;
32 •  SELECT * FROM View3;
33
34
```

Results:

View #1:

TotalSteps	Calories	Walked
36019	2690	Walked a lot
18387	2732	Walked a lot
18213	3846	Walked a lot
18134	2159	Walked a lot
15506	2035	Walked a lot
15355	2013	Walked a lot

View #2:

AvgCalories	FewestCalories	MostCalories	AvgSteps	FewestSteps	MostSteps
1983.0370	0	3846	6507.4722	0	36019

View #3:

SumSteps	SumDistance	SumCalories
375619	242.09999895100003	56309
375619	242.09999895100003	56309
178061	121.36000061509999	45984
178061	121.36000061509999	45984
178061	121.36000061509999	45984
178061	121.36000061509999	45984
178061	121.36000061509999	45984