





MYSQL-PROJECT

DATABASE DESIGN FOR HEALTH AND FITNESS TRACKING



OBJECTIVE



To track fitness details of clients using MySQL, Database for tracking and querying data related to fitness activities, user goals, and various health Nutrition. Below is an example of how you might structure your tables.



Table structure



Users:

Stores user information.

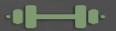


Activities: Stores
different types of
activities (e.g.,
running, cycling) and
calories burned.



Nutrition:

Stores performed by users, details like Meal Type, Food Type and calories.

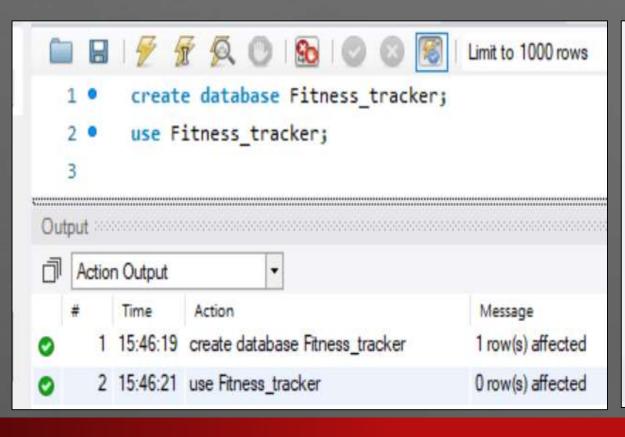


Goals: Stores activities performed by users, including details like steps, active minute, and calories burned.

Created a database 'Fitness'

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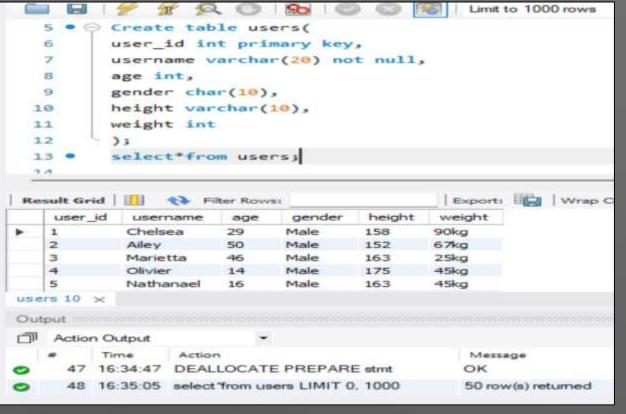
HOW TO CREATE, DROP AND USE A DATABASE IN MYSQL?

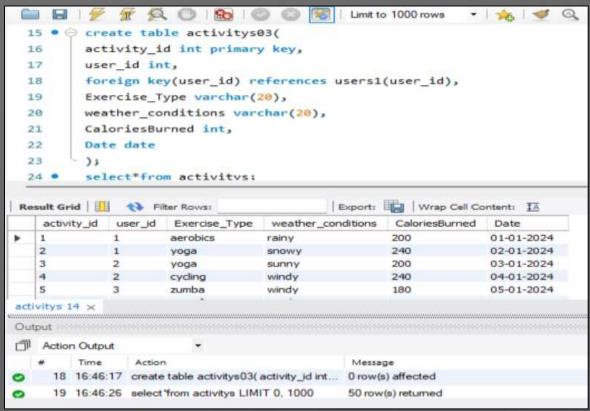


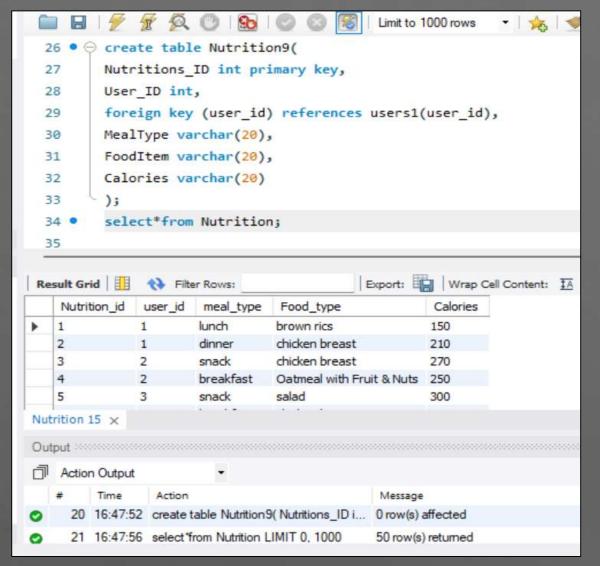
	3	•	Drop	database Fitness_tracker;	
Output					
đ	Action Output •				
	#		Time	Action	Message
0		1	15:46:19	create database Fitness_tracker	1 row(s) affected
0		2	15:46:21	use Fitness_tracker	0 row(s) affected
0		3	15:47:59	Drop database Fitness_tracker	0 row(s) affected

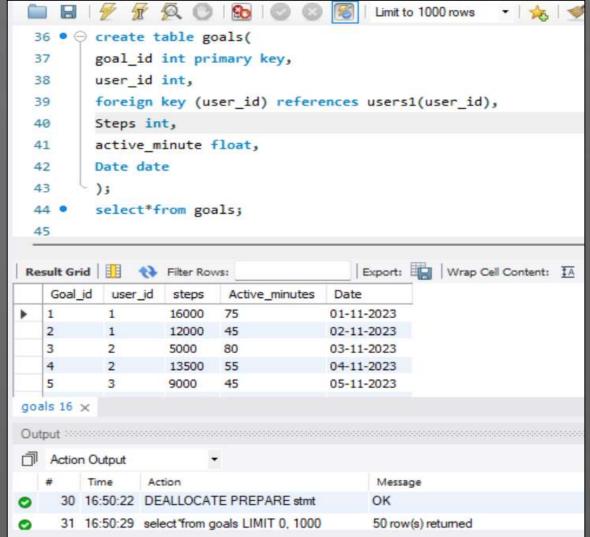
Created a table User, Activity, Nutrition and goals with primary key and foreign Key

HOW TO CREATE A TABLE IN FITNESS DATABASE?

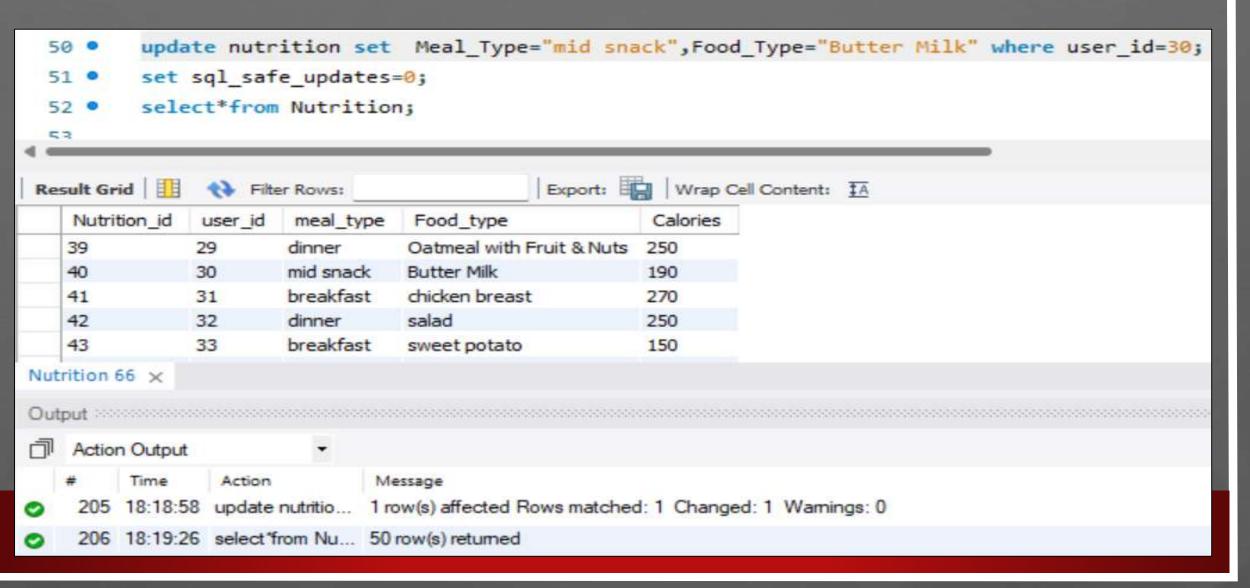




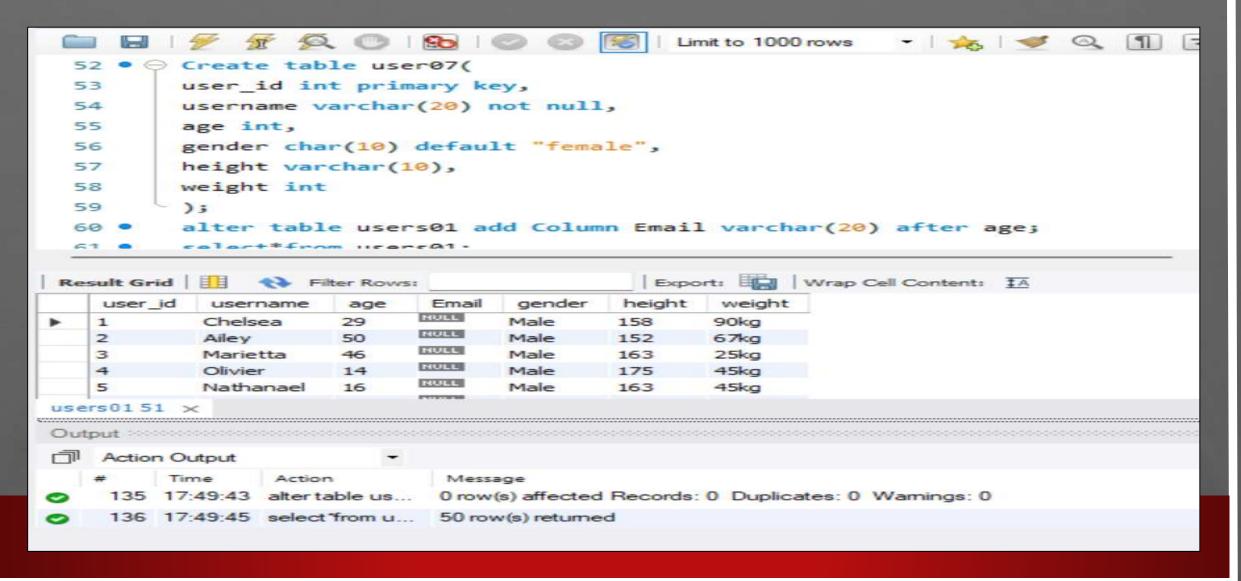




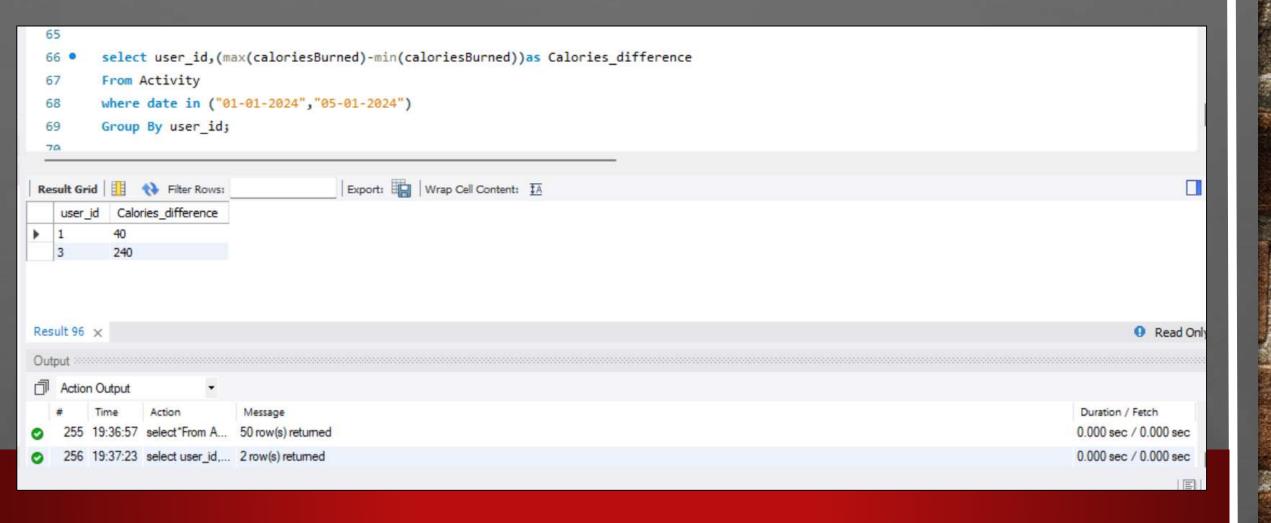
TO FIND A QUERY TO UPDATE MEAL_TYPE FOR SPECIFIC USER?



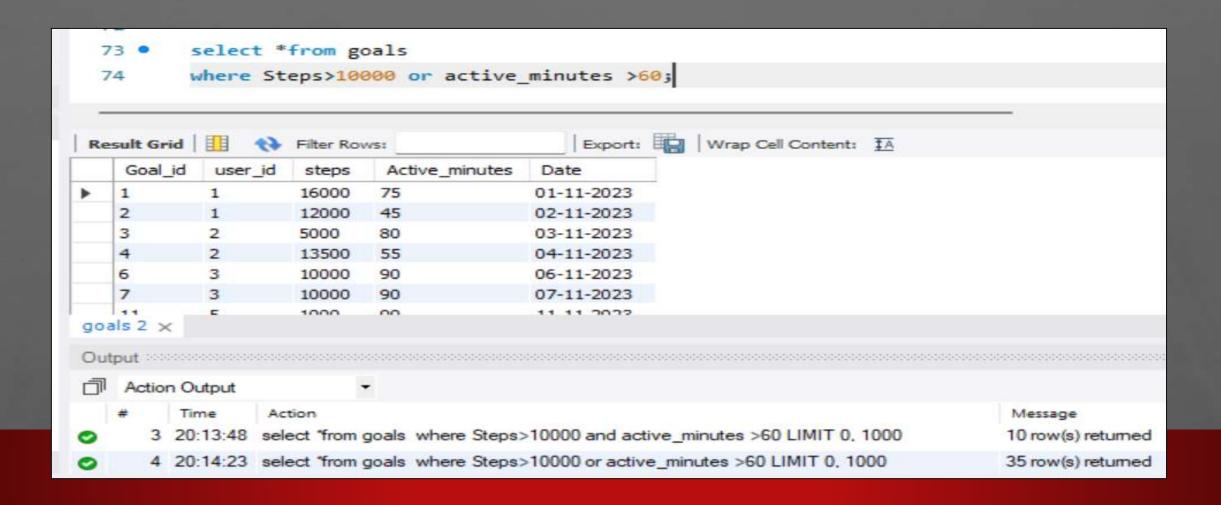
TO FIND A QUERY USING CONSTRAINTS LIKE ADD DEFAULT, ADD COLUMN FROM USERS?



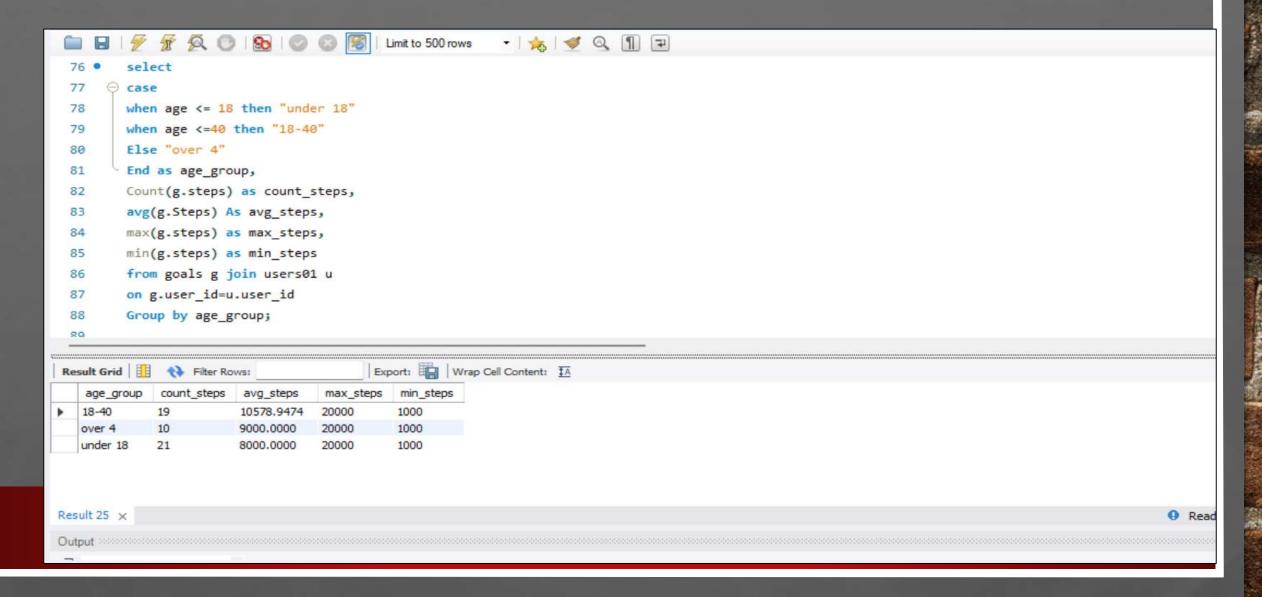
CALCULATE THE DIFFERENCE IN CALORIES BURNED BETWEEN 2 DAYS?



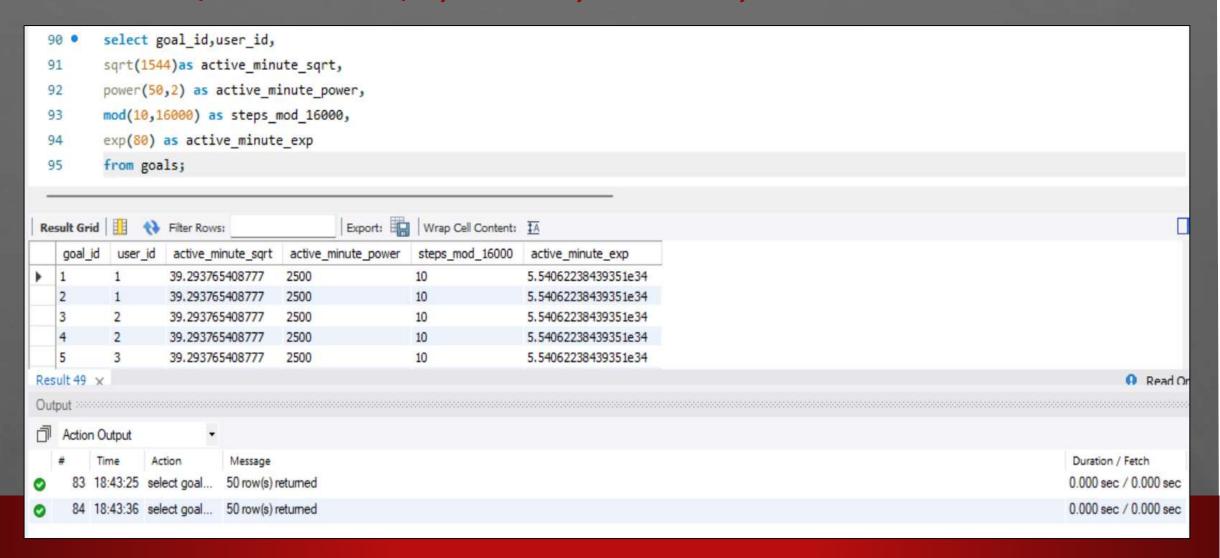
FIND GOALS WHO HAVE EITHER MORE THAN 10,000 STEPS OR MORE THAN 60 ACTIVE MINUTES?



CALCULATE AVG, COUNT, MAX, MIN OF THE STEPS USING GROUP BY THEIR AGE GROUP FROM THE USER TABLE?



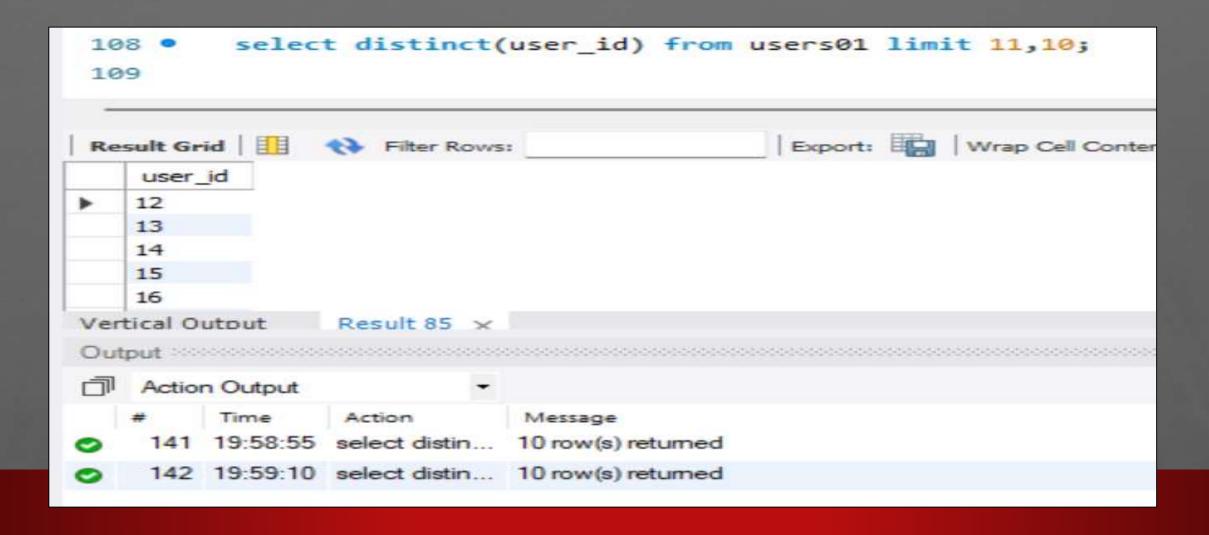
TO FIND A QUERY THE SQRT, POWER, MODULO, EXP USING MATH FUNCTION?



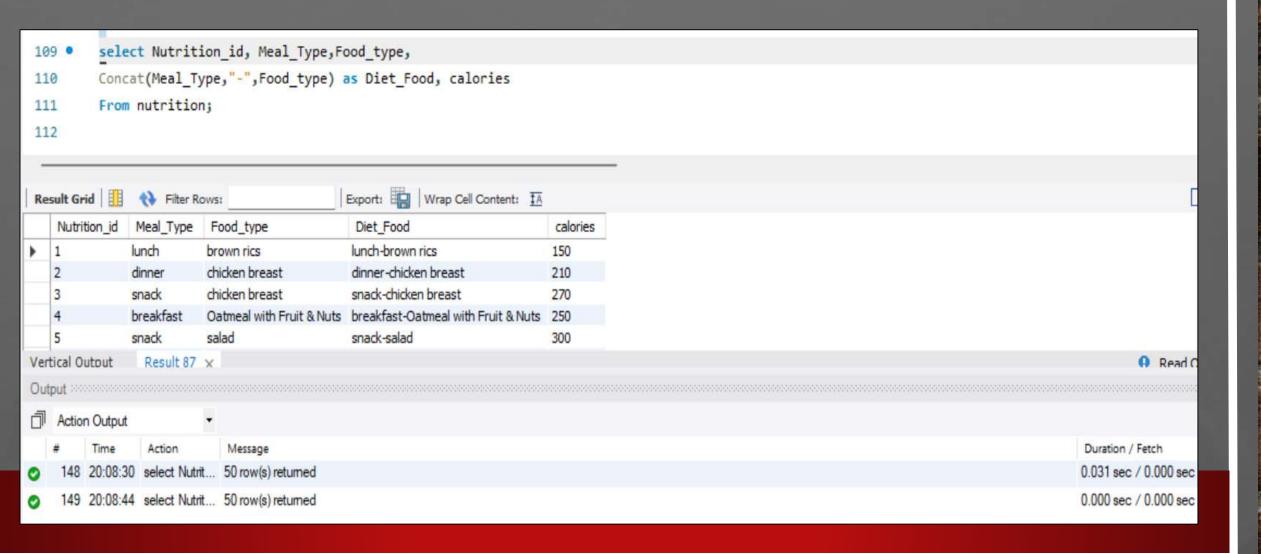
TO FIND A QUERY MAX CALORIES BY A USER?

```
Select
         99 0
  100
                                                 user id, max(caloriesBurned) as Exercise
  101
                                                 from Activity
                                                  group by user id having max(caloriesBurned)
   102
                                                  order by user id asc;
   103
                                                                                                                                                                                                                                        Export: Wrap Cell Content: TA
   Result Grid Fifter Rows:
                    user id Exercise
                                                           240
                                                           240
                                                           420
                                                           420
                                                           420
Vertical Output Result 80 ×
Output successores and a contract the contract and a contract and 
                  Action Output
                                             Time
                                                                                  Action
                                                                                                                                                   Message
                     136 19:42:37 select*From... 50 row(s) returned
                      137 19:43:04 Select user... 39 row(s) returned
```

To Find the middle 10 user?



WRITE A QUERY TO USING CONCATENATE ADD A NEW COULMN NAMED "DIET FOOD"?

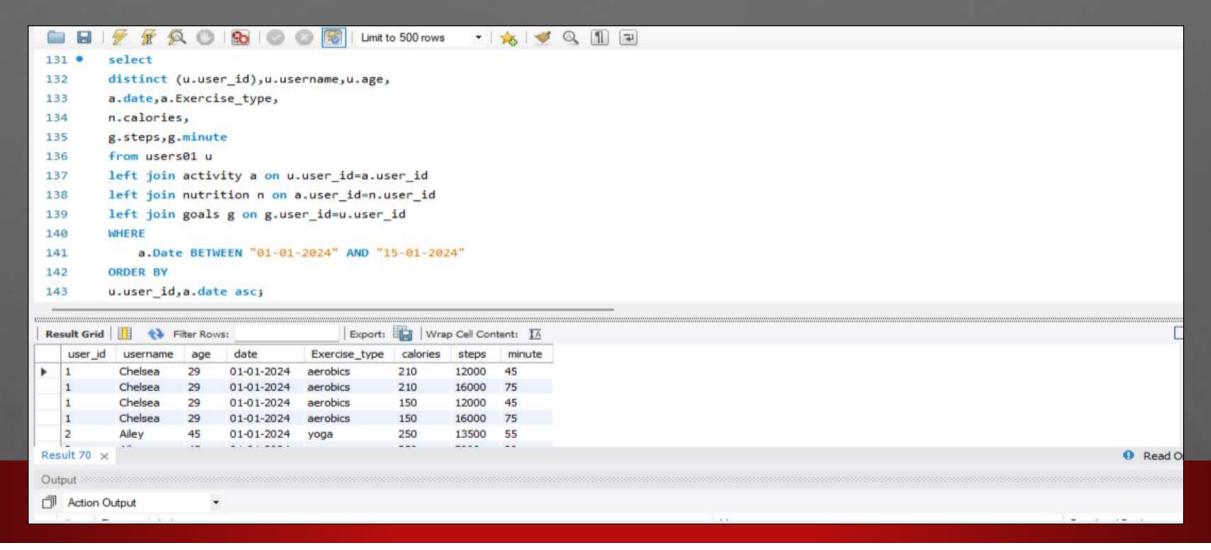


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TO FIND USERS WHO HAVE TAKE THE MAX STEPS ON THE SPECIFIC DATE "10-11-2023"



TO FIND THE QUERY INFORMATION ABOUT ALL USERS, THE WORKOUT PLANS THEY ARE FOLLOWING, THE ACTIVITIES THEY PERFORMED, AND DETAILS ABOUT THOSE ACTIVITIES. SPECIFICALLY FOR 15DAYS?



THANKYOU

