

DBMS Assignment 3

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a. List all the users who have attained their target for May 2023 in any work out

```
mysql> SELECT c.*, g.username, g.email
-> FROM customer c
-> INNER JOIN customer_user_mapping cu ON c.id = cu.customer_id
-> INNER JOIN user g ON cu.user_id = g.id
-> WHERE c.id IN (
->   SELECT u.customer_id
->   FROM user_daily_progress u
->   INNER JOIN daily_goal_customer_progress d ON d.progress_id = u.id
->   INNER JOIN daily_goal e ON d.goal_id = e.id
->   WHERE u.date BETWEEN '2023-05-01' AND '2023-05-31'
->         AND (u.steps_achieved >= e.steps_goal AND u.calories_burned_achieved >= e.calories_burned_goal)
-> );
```

id	location	age	birthdate	weight	height	username	email
2	City B	30	1993-05-20	75.20	180.50	user2	user2@example.com
4	City D	35	1988-08-05	85.50	185.00	user4	user4@example.com
5	City E	32	1990-12-01	72.00	177.50	Aswin	user1@example.com

3 rows in set (0.00 sec)

b. List days that User “Aswin” have less sleep duration for the month of November 2022

```
mysql> SELECT s.date, u.username AS user_name, s.duration_hours AS sleep_duration
-> FROM sleep_log s
-> INNER JOIN customer c ON s.customer_id = c.id
-> INNER JOIN customer_user_mapping cu ON c.id = cu.customer_id
-> INNER JOIN user u ON cu.user_id = u.id
-> WHERE u.username = 'Aswin' AND s.duration_hours < 3 AND s.date BETWEEN '2022-11-01' AND '2022-11-30';
```

date	user_name	sleep_duration
2022-11-03	Aswin	2.50
2022-11-04	Aswin	2.80
2022-11-05	Aswin	2.20
2022-11-06	Aswin	2.50
2022-11-07	Aswin	2.70

5 rows in set (0.00 sec)