Fitness Application 3

1. last_workout_day

```
CREATE DEFINER=`chehet25`@`%` FUNCTION`last_workout_day`(User_Input Integer)

RETURNS int

DETERMINISTIC

BEGIN

DECLARE WorkoutDay Integer;

SELECT wo.WorkoutDayID_WorksOut

INTO WorkoutDay

FROM WorksOut wo

JOIN User u ON u.UserID = wo.UserID_WorksOut

WHERE u.UserID = User_Input

ORDER BY wo.Date DESC

LIMIT 1;
```

RETURN IFNULL(WorkoutDay, 0);

2. muscles_worked

 $\label{lem:created} \textbf{CREATE DEFINER=`chehet25`@`\%`FUNCTION`muscles_worked`(WorkoutDay Integer)} \\$

RETURNS varchar(30) CHARSET utf8mb4

DETERMINISTIC

BEGIN

DECLARE muscles VARCHAR(30);

SELECT GROUP_CONCAT(DISTINCT fa.PrimaryMuscleGroup SEPARATOR '/')

INTO muscles

FROM FitnessActivity fa

JOIN Scheduled s ON fa.FitnessActivityID = s.FitnessActivityID_Scheduled

JOIN WorkoutDay wd ON s.WorkoutDayID_Scheduled = wd.WorkoutDayID

WHERE wd.WorkoutDayID = WorkoutDay

AND fa.PrimaryMuscleGroup NOT IN ('multiple', 'shoulders');

RETURN muscles;

3. next_workout_day -> For this, I refactored my last_workout_day code to return a CASE in which I add 1 to the last_workout_day, and use the CASE to handle someone who hasn't worked out yet or is on day 6.

```
CREATE DEFINER=`chehet25`@`%` FUNCTION `next_workout_day`(User_Input Integer)
RETURNS int
 DETERMINISTIC
BEGIN
      DECLARE WorkoutDay Integer;
 SELECT wo.WorkoutDayID_WorksOut
 INTO WorkoutDay
 FROM WorksOut wo
 JOIN User u ON u.UserID = wo.UserID_WorksOut
 WHERE u.UserID = User_Input
 ORDER BY wo. Date DESC
 LIMIT 1;
RETURN
CASE
 WHEN WorkoutDay + 1 = 7 THEN 1
 WHEN WorkoutDay IS NULL THEN 1
 ELSE WorkoutDay + 1
END;
```

Procedures

```
build_workout:
```

```
CREATE DEFINER=`chehet25`@`%` PROCEDURE`build_workout`(User_ID INT, Operation INT)
```

BEGIN

INSERT INTO WorksOut (UserID_WorksOut, WorkoutDayID_WorksOut, FitnessActivityID_WorksOut, Date)

SELECT DISTINCT

(SELECT UserID FROM User u WHERE u.UserID = User_ID), wd.WorkoutDayID, fa.FitnessActivityID AS 'Activity', curdate()

FROM WorksOut wo

JOIN WorkoutDay wd ON wo.WorkoutDayID_WorksOut = WorkoutDayID

JOIN FitnessActivity fa ON fa.FitnessActivityID = wo.FitnessActivityID_WorksOut

WHERE NOT EXISTS

(SELECT wo.Date

FROM WorksOut wo

WHERE wo.Date = curdate()

AND wo.UserID_WorksOut = User_ID)

AND wd.WorkoutDayID = Operation;

fetch_current_workout:

CREATE DEFINER=`chehet25`@`%` PROCEDURE `fetch_current_workout` (User_ID INT)
BEGIN

```
SELECT fa.Name AS 'Activity', wo.Date, wo.Minutes, wo.Reps, wo.MaxWeight
FROM WorksOut wo

JOIN FitnessActivity fa ON fa.FitnessActivityID = wo.FitnessActivityID_WorksOut
WHERE wo.UserID_WorksOut = User_ID

AND wo.Date = (

SELECT MAX(wo.Date)

FROM WorksOut wo

WHERE UserID_WorksOut = User_ID

);
```