SQL-Advanced. Part2

Print Prime Numbers https://www.hackerrank.com/challenges/print-prime-numbers/problem?isFullScreen=true Query 10 print 2636 6 87 ... To check whether number is prime or not: python logics - also can check upto In Heration from 2 to n/2: Time complexity: O (sqrt(n)) Auxiliary Space: O(1) if num >2: for i in range (2, int (num /2) +1): if (num % 1) == 0: print (num, "is not a prime number") print (num, " is a prime numbel") else: print (num, " is not a prime number") int (squt(num)+1) Time Complexity:
O(sqrtin) Auxiliary space def Prime (number, itr): if itr==1: # base cond" O(Bastu) octuen Tene if number of its==0: return false if Pine (number, it-1) == false):

setuen false

return Time

CREATE PROCEDURE procedure name Street procedure you can save code and 24 Sgl- statement (20, procedure name; - used to execute this code. EXEC Note: that you may also need to store muliple parameters in one code. just list them down as In below. example Shown CAN. -1 DELIMITER // -> we would need; in procedure so we need to change delimited from ; CREATE PROCEDURE find_primes (IN) upper_limit INT) procedure name DECLARE num INT DEFAULT 2; -> Starting www DECLARE i INT; -> countel DECLARE is_prime TINYINT; - flag whether to indicate neur prime or not 7 DECLARE primes_list VARCHAR(16383) DEFAULT ''; -> list of concatened prime numbell 8 9 prime_loop: WHILE num <= upper_limit DO -> 210 upper limit SET i = 2; -> This loop checks if num is SET is_prime = 1; -- TRUE prime number or not divisor_loop: WHILE i <= SQRT (num) DO ______ if numis olivisible by i then 14 it is not prime - flag=0 SET is_prime = 0; -- FALSE LEAVE divisor_loop; break END IF; SET i = i + 1; -> counter increase END WHILE; -> while loop finishes. IF is_prime = 1 THEN -> now if it is prime IF LENGTH(primes_list) > 0 THEN → (Cit > 0) SET primes_list = CONCAT(primes_list, '&', num); -> concat num to primes-24 SET primes_list = CAST(num AS CHAR); -> if its a first one 27 END IF: then change type of number to END IF; the character. 29 SET num = num + 1; -> next numbel 30 31 END WHILE: SELECT primes_list; -> list down all the mime numbers. 34 END // DELIMITER ; -> ou the procedure. CALL find_primes(1000); -- This will find primes between 2 and 1000

15 days of Learning SQL https://www.hackerrank.com/challenges/15-days-of-learning-sql/problem?isFullScreen=true There is some problem with this question? conduc:-Total number of unique hackes who made Catleast one submission. hacker-id and hacker-name of the max?mun subuissions each day. Is more than one such hauses - print lowest le souted by date Submissions: Karlers: submission - date hackerid susmission_id vaine hacker-id SELECT sl.submission_date, Score unique res rotal SELECT COUNT(DISTINCT s2.hacker_id) Harrell. FROM Submissions s2 WHERE s2.submission_date = s1.submission_date SELECT COUNT(DISTINCT s3.submission_date) FROM Submissions s3 WHERE s3.hacker_id = s2.hacker_id AND s3.submission_date < s1.submission_date) = DATEDIFF(s1.submission_date, '2016-03-01')) AS total_unique_hackers, Second Subquery for Hackels with SELECT s2.hacker id map submission. FROM Submissions s2 WHERE s2.submission_date = s1.submission_date GROUP BY s2.hacker_id ORDER BY COUNT(s2.submission_id) DESC, s2.hacker_id ASC LIMIT 1 AS hacker_id, SELECT h.name us Hayer name FROM Hackers h WHERE h.hacker_id = (SELECT s2.hacker_id FROM Submissions s2 WHERE s2.submission_date = s1.submission_date GROUP BY s2.hacker_id ORDER BY COUNT(s2.submission_id) DESC, s2.hacker_id ASC LIMIT 1) AS hacker_name - SI subquery for SELECT DISTINCT submission_date unique submission dates FROM Submissions GROUP BY s1.submission_date ORDER BY s1.submission_date;