

# Print Prime Numbers

Write a query to print all *prime numbers* less than or equal to **1000**. Print your result on a single line, and use the ampersand (&) character as your separator (instead of a space).

For example, the output for all prime numbers  $\leq 10$  would be:

2&3&5&7

```
SELECT
  GROUP_CONCAT(NUMB SEPARATOR '&')
FROM
  (
    SELECT
      @num:=@num+1 as NUMB
    FROM
      information_schema.tables t1
    , information_schema.tables t2
    , (
      SELECT
        @num:=1
      )
    ) tmp
  ) tempNum
WHERE
  NUMB<=1000
  AND NOT EXISTS
  (
    SELECT *
    FROM
      (
        SELECT
          @nu:=@nu+1 as NUMA
        FROM
          information_schema.tables t1
        , information_schema.tables t2
        , (
          SELECT
            @nu:=1
          )
        ) tmp1
      LIMIT 1000
    ) tatata
  WHERE
    FLOOR(NUMB/NUMA)=(NUMB/NUMA)
    AND NUMA < NUMB
    AND NUMA > 1
  )
```