| normal: (3) > 0 (3) + (2) + (3) (3) + (4) + (5

[GTM 167, Thm 4.13] char F=p. then
F perfect \$\rightarrow F^P = F\$

open subgroup \subseteq closed subgroup = $\lceil G_a | (\overline{K}/L) | L/k \text{ ext } \rceil \subseteq \text{ subgroup}$

Lem. A subgroup of a profinite group is open iff it's closed and has finite index.

Ref: https://ctnt-summer.math.uconn.edu/wp-content/uploads/sites/1632/2020/06/CTNT-InfGaloisTheory.pdf