

5. The number, name, office and department name (code) of each professor who is not currently teaching on Mondays before noon and is also not currently teaching on Fridays after noon.

$$\begin{aligned} &\{ w, x, y, z \mid \text{professor}(w, x, y, z) \\ &\quad \wedge \exists q, r, s . \text{class}(q, r, s, w) \\ &\quad \wedge \exists t, u, v . \text{schedule}(q, r, s, t, u, v) \\ &\quad \wedge \neg ( t = \text{"Monday"} \wedge u < \text{"12:00"} ) \\ &\quad \wedge \neg ( t = \text{"Friday"} \wedge u > \text{"12:00"} ) \\ &\quad \wedge \exists n . \text{enrollment}(n, q, r, s) \\ &\quad \wedge \neg ( \exists m . \text{mark}(n, q, r, s, m) ) \\ &\} \end{aligned}$$