

8. The number and name of any professor who has taught or is teaching on Friday, and, whenever this has been the case, has never had to also teach on Monday.

$$\begin{aligned} & \{ x, y \mid \exists v, w . \text{professor}(x, y, v, w) \\ & \quad \wedge \exists s, t, u . \text{class}(s, t, u, x) \\ & \quad \wedge \exists p, q, r . \text{schedule}(s, t, u, p, q, r) \\ & \quad \wedge p = \text{"Friday"} \\ & \quad \wedge \neg (\exists s1, t1, u1 . \text{class}(s1, t1, u1, x) \\ & \quad \quad \wedge \exists p1, q1, r1 . \text{schedule}(s1, t1, u1, p1, q1, r1) \\ & \quad \quad \wedge p1 = \text{"Monday"}) \\ & \} \end{aligned}$$