

10. The number and name of each professor who has taught the same course as some other professor in the same term, and, whenever this was the case, had at least two students who obtained grades in the course that were higher than any grades obtained by students who were taught by the other professor.

$$\begin{aligned}
 &\{ x, y \mid \exists v, w . \text{professor}(x, y, v, w) \\
 &\quad \wedge \exists s, t, u . \text{class}(s, t, u, x) \\
 &\quad \wedge \exists r . \text{enrollment}(r, s, t, u) \\
 &\quad \wedge \exists r2 . \text{enrollment}(r2, s, t, u) \\
 &\quad \wedge \exists q . \text{mark}(r, s, t, u, q) \\
 &\quad \wedge \exists q2 . \text{mark}(r2, s, t, u, q2) \\
 &\quad \wedge \exists x1, y1, v1, w1 . \text{professor}(x1, y1, v1, w1) \\
 &\quad \wedge \exists u1 . \text{class}(s, t, u1, x1) \\
 &\quad \wedge \exists r1 . \text{enrollment}(r1, s, t, u1) \\
 &\quad \wedge \forall q1 . \text{mark}(r1, s, t, u1, q1) \\
 &\quad \wedge q > q1 \\
 &\quad \wedge q2 > q1) \\
 &\}
 \end{aligned}$$