

9. The number and name of fourth year students who have taken CS 348 and, whenever they did, obtained a higher grade in at most one other class taken during the same term.

$$\begin{aligned}
 & \{ x, y \mid \exists z . \text{student}(x, y, z) \\
 & \quad \wedge z = 4 \\
 & \quad \wedge \exists u, v, w . \text{enrollment}(x, u, v, w) \\
 & \quad \wedge \exists t . \text{mark}(x, u, v, w, t) \\
 & \quad \wedge u = \text{"CS 348"} \\
 & \\
 & \quad \wedge \\
 & \quad \neg (\\
 & \quad \quad \exists u1, w1 . \text{enrollment}(x, u1, v, w1) \\
 & \quad \quad \wedge \exists t1 . \text{mark}(x, u1, v, w1, t1) \\
 & \quad \quad \wedge t1 > t \\
 & \quad \quad \wedge u1 \neq u \\
 & \\
 & \quad \quad \wedge \exists u2, w2 . \text{enrollment}(x, u2, v, w2) \\
 & \quad \quad \wedge \exists t2 . \text{mark}(x, u2, v, w2, t2) \\
 & \quad \quad \wedge t2 > t \\
 & \quad \quad \wedge u2 \neq u \\
 & \quad \quad \wedge u1 \neq u2 \\
 & \quad) \\
 & \}
 \end{aligned}$$