1. a) Openlate(r):= Restaurant(r,'Friday',o,c) AND c>9:00pm AND Restaurant(r,'Saturday',o2,c2) AND c2>9:00pm

   b) OpenEarly(r) := Restaurant(r, 'Saturday', o, c) AND o < 8am AND Restaurant(r, 'Sunday', o2, c2) AND o< 8am

   HappyNighthawks(p) := Nighthawks(p, r) AND OpenLate(r) AND OpenEarly(r)

   Technically correct, but relational select for a constant is better per above.

   a) Openlate(r):= Restaurant(r,d,o,c) AND d='Friday' AND c>9:00pm AND Restaurant(r,d2,o2,c2) AND d2='Saturday' AND c2>9:00pm

   b) OpenEarly(r) := Restaurant(r, d, o, c) AND d = "Saturday" AND o < 8am AND Restaurant(r, d2, o2, c2) AND d2 = "Sunday" AND o 2≤8

   HappyNighthawks(p) := Nighthawks(p, r) AND OpenLate(r) AND OpenEarly(r)

Think about: Suppose a HappyNighthawk is one who can find a place to each for each of the four meals, but they need not be the same restaurant?