

$a \rightarrow b, c, e \checkmark$

$c \rightarrow d \checkmark$

$e \rightarrow f \checkmark$

$\Pi(a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z, z_1)$

$c, g \rightarrow h, i, j, k$

$e, l \rightarrow m, n, o, p, q, r$

$s \rightarrow t, u, v, w, y$

$w \rightarrow x$

$y \rightarrow z$

$w, y \rightarrow z_1$

$dsID(a) \rightarrow organizationName(b), msdsID(c), ~~model~~ wsdsID(e)$

$msdsID(c) \rightarrow modelNo(d)$

$wsdsID(e) \rightarrow location(f)$

$msdsID(c), timestamp(g) \rightarrow pm2.5(h), temperature(i), longitude(j), latitude(k), ~~msdsID(c)~~$

$wsdsID(e), timestamp(l) \rightarrow pm2.5(m), rainPrecipitation(n), windSpeed(o), visibility(p), cloudCover(q), relativeHumidity(r)$

$userID(s) \rightarrow name(t), password(u), email(v), munUserID(w), ~~minis~~ minisUserID(y)$

$munUserID(w) \rightarrow districtName(x)$

$minisUserID(y) \rightarrow ministryName(z)$

$munUserID(w), minisUserID(y) \rightarrow message(z_1)$