Baze podataka 2

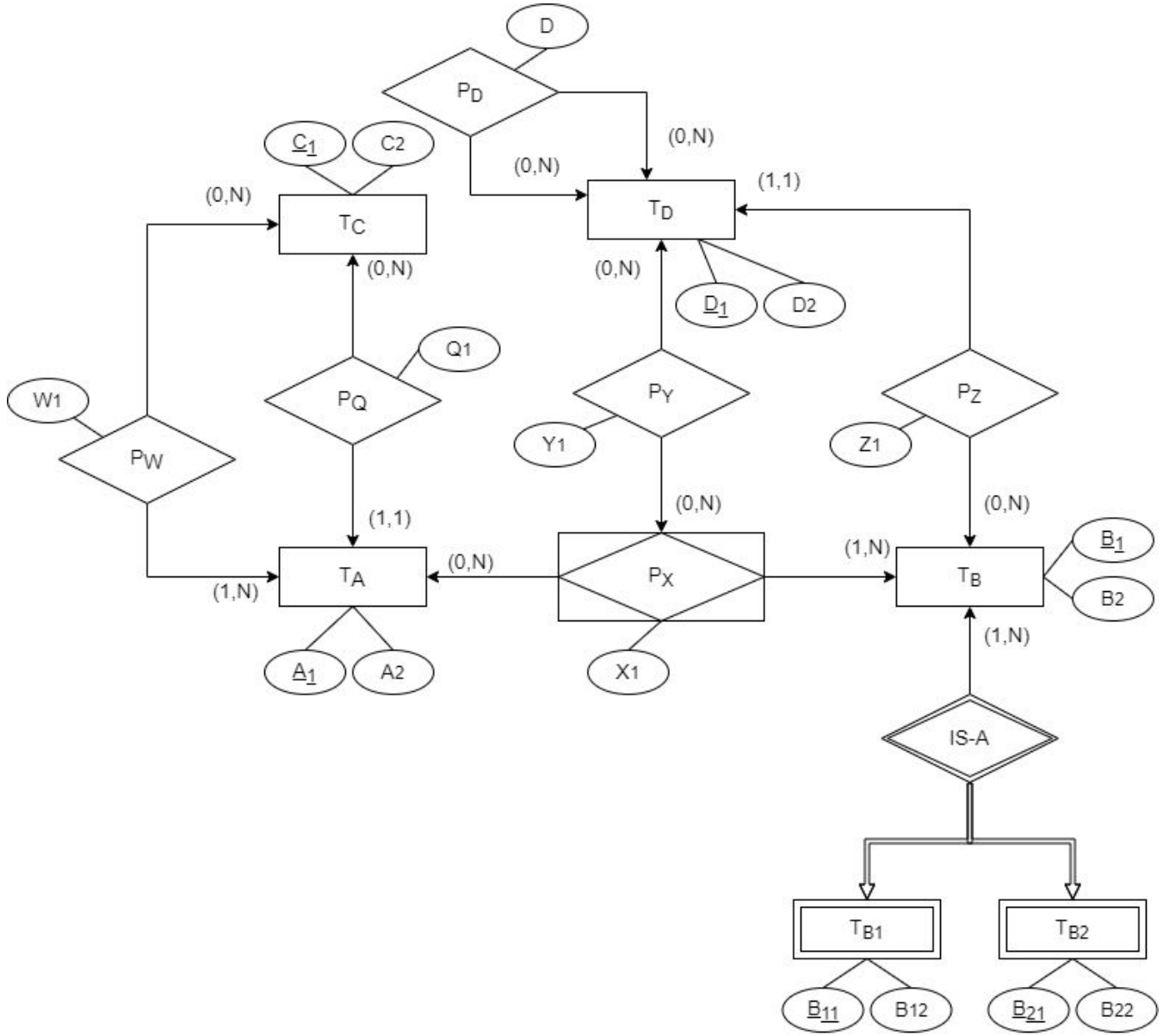
Vežbe - prevođenje EER modela u relacioni model

Sadržaj

- Zadaci za vežbu

Zadaci za vežbu

Zadatak 1


D
PD
C1
C2
(0,N)
(0,N)
(0,N)
(1,1)
TC
TD
(0,N)
(0,N)
D1
D2
Q1
W1
PQ
PY
PZ
Y1
Z1
PW
(1,1)
(0,N)
(0,N)
(1,N)
(1,N)
B1
TA
(0,N)
PX
TB
B2
(1,N)
A1
A2
X1
IS-A
TB1
TB2
B11
B12
B21
B22

Zadatak 1

T_C ($\{C_1, C_2\}, \{C_1\}$)

$T_A(\{A_1, A_2, C_{11}, Q_1\}, \{A_1\})$

$T_A[C_{11}] \subseteq T_C[C_1]$

$\text{Null}(T_A, C_{11}) = \perp$

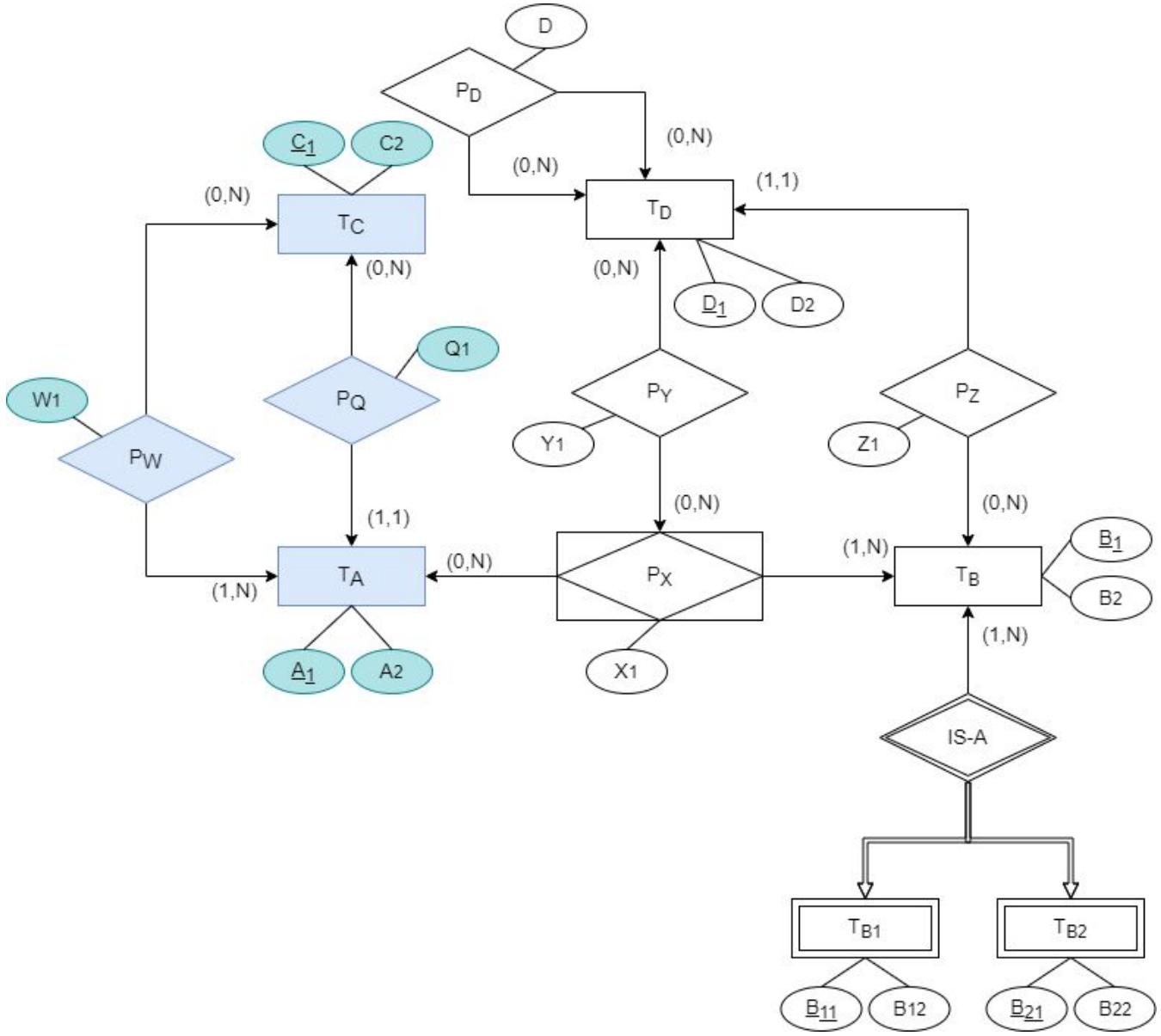
$\text{dom}(C_{11}) \subseteq \text{dom}(C_1)$

$P_W(\{A_1, C_1, W_1\}, \{A_1 + C_1\})$

$P_W[A_1] \subseteq T_A[A_1]$

$T_A[A_1] \subseteq P_W[A_1]$

$P_w[C_1] \subseteq T_C[C_1]$



Zadatak 1

$T_B(\{B_1, B_2\}, \{B_1\})$

$P_X(\{A_1, B_1, X_1\}, \{A_1 + B_1\})$

$P_X[A_1] \subseteq T_A[A_1]$

$P_X[B_1] \subseteq T_B[B_1]$

$T_B[B_1] \subseteq P_X[B_1]$

$T_D(\{D_1, D_2, B_1, Z_1\}, \{D_1\})$

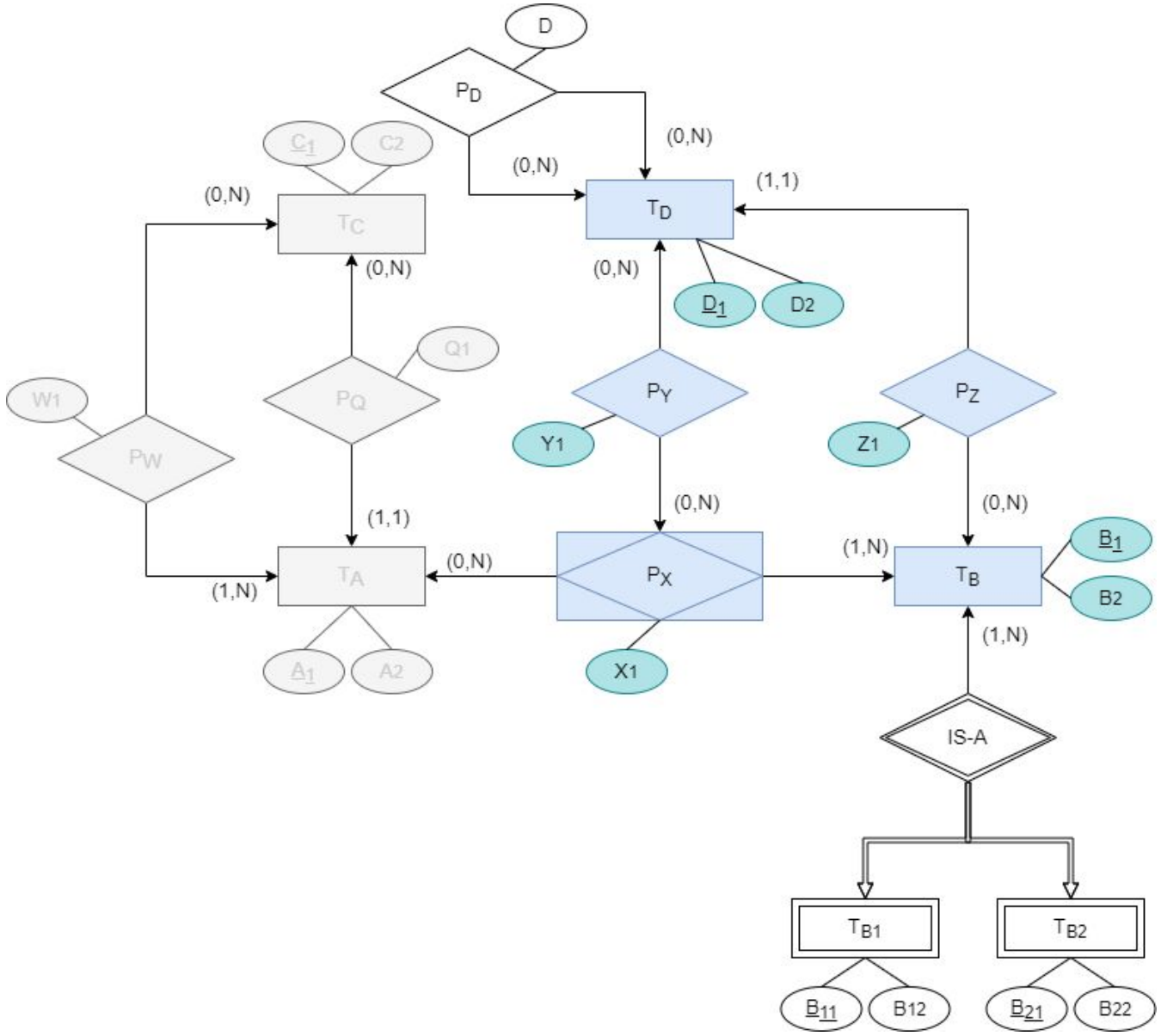
$T_D[B_1] \subseteq T_B[B_1]$

$\text{Null}(T_D, B_1) = \perp$

$P_Y(\{D_1, A_1, B_1, Y_1\}, \{D_1 + A_1 + B_1\})$

$P_Y[D_1] \subseteq T_D[D_1]$

$P_Y[A_1 + B_1] \subseteq P_X[A_1 + B_1]$



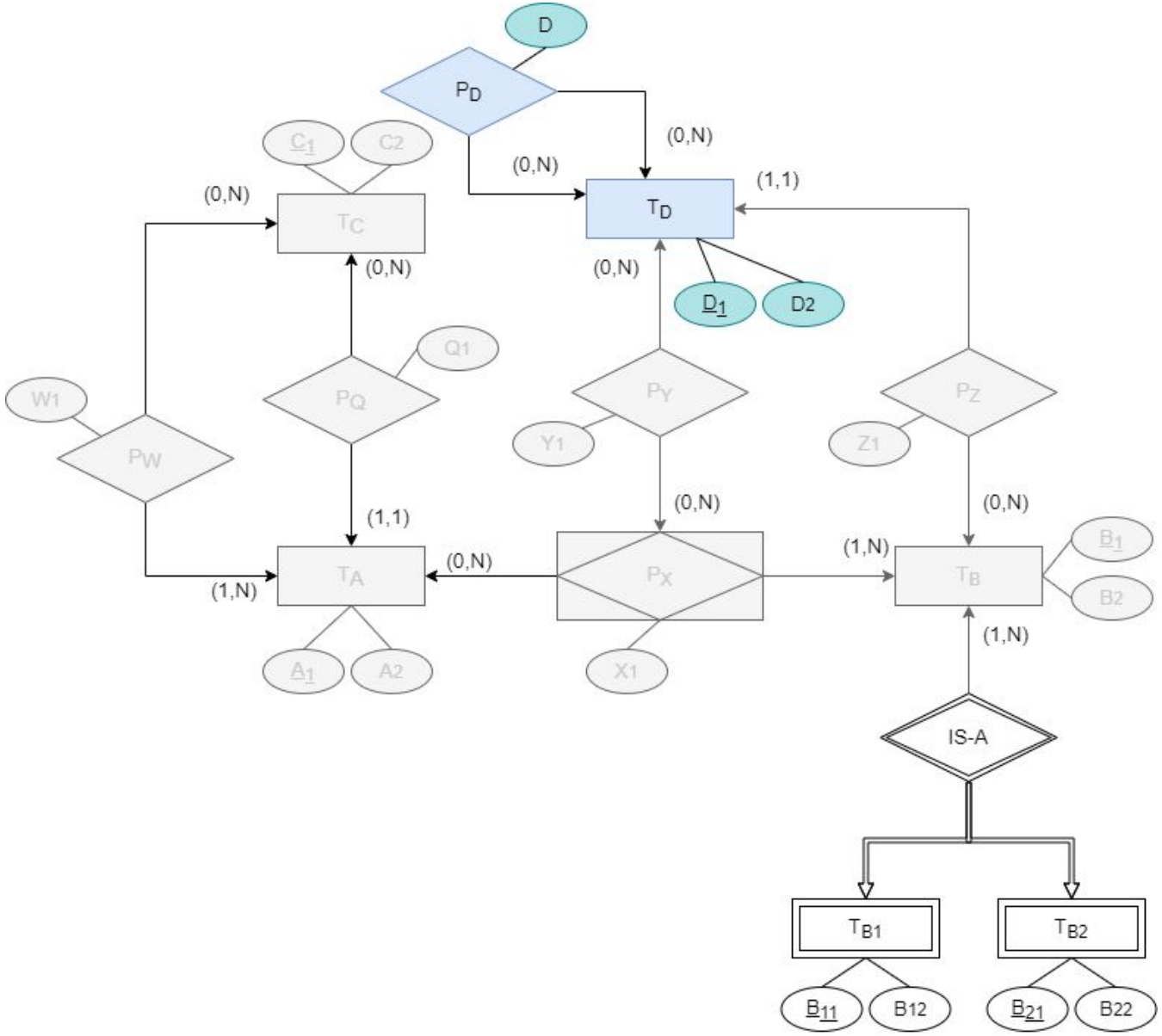
Zadatak 1

$P_D(\{D_1, D_{11}, D\}, \{D_1 + D_{11}\})$

$P_D[D_1] \subseteq T_D[D_1]$

$P_D[D_{11}] \subseteq T_D[D_1]$

$\text{dom}(D_{11}) \subseteq \text{dom}(D_1)$



Zadatak 1

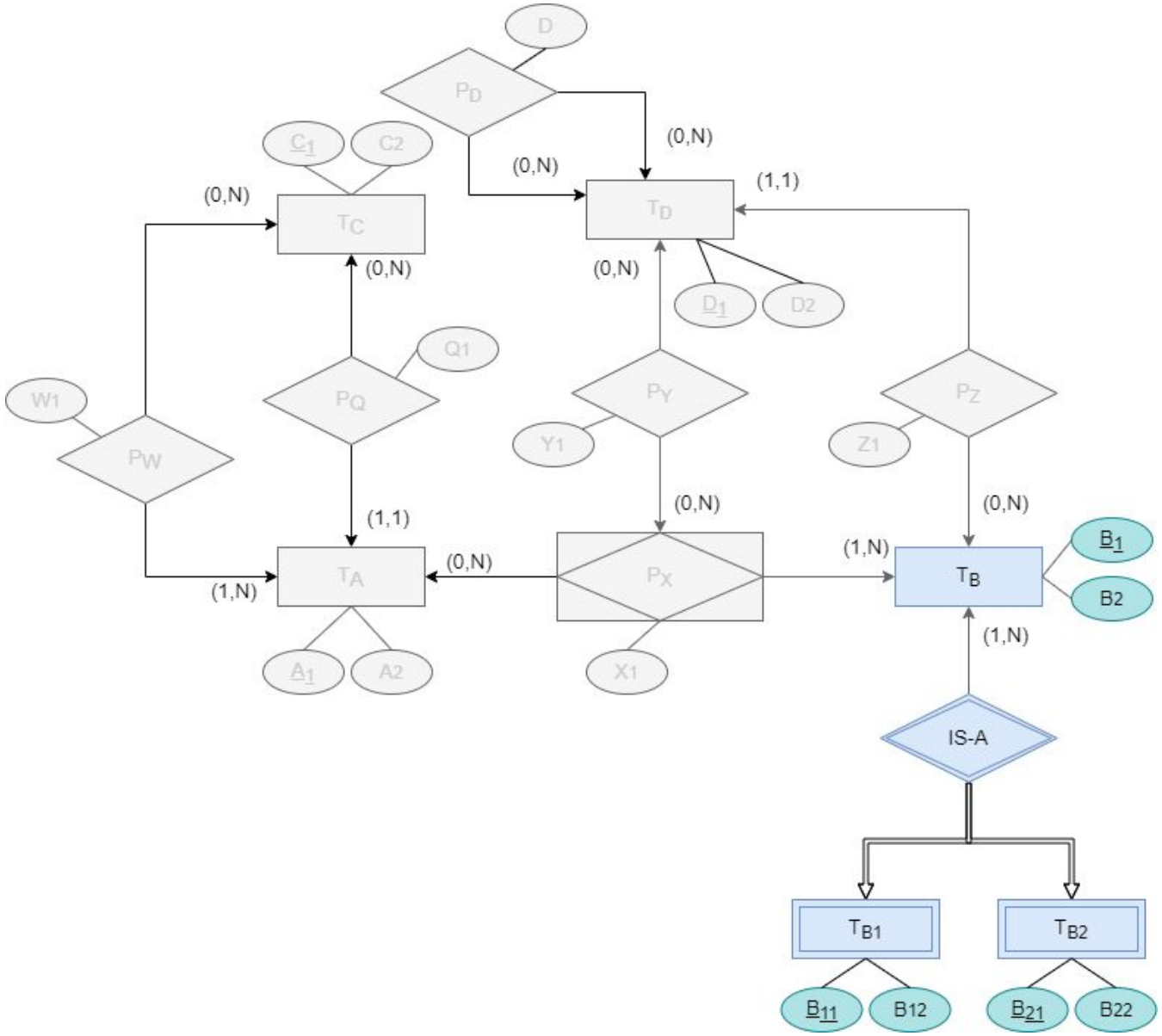
$T_{B1}(\{B_1, B_{11}, B_{12}\}, \{B_1, B_{11}\})$

$T_{B2}(\{B_1, B_{21}, B_{22}\}, \{B_1, B_{21}\})$

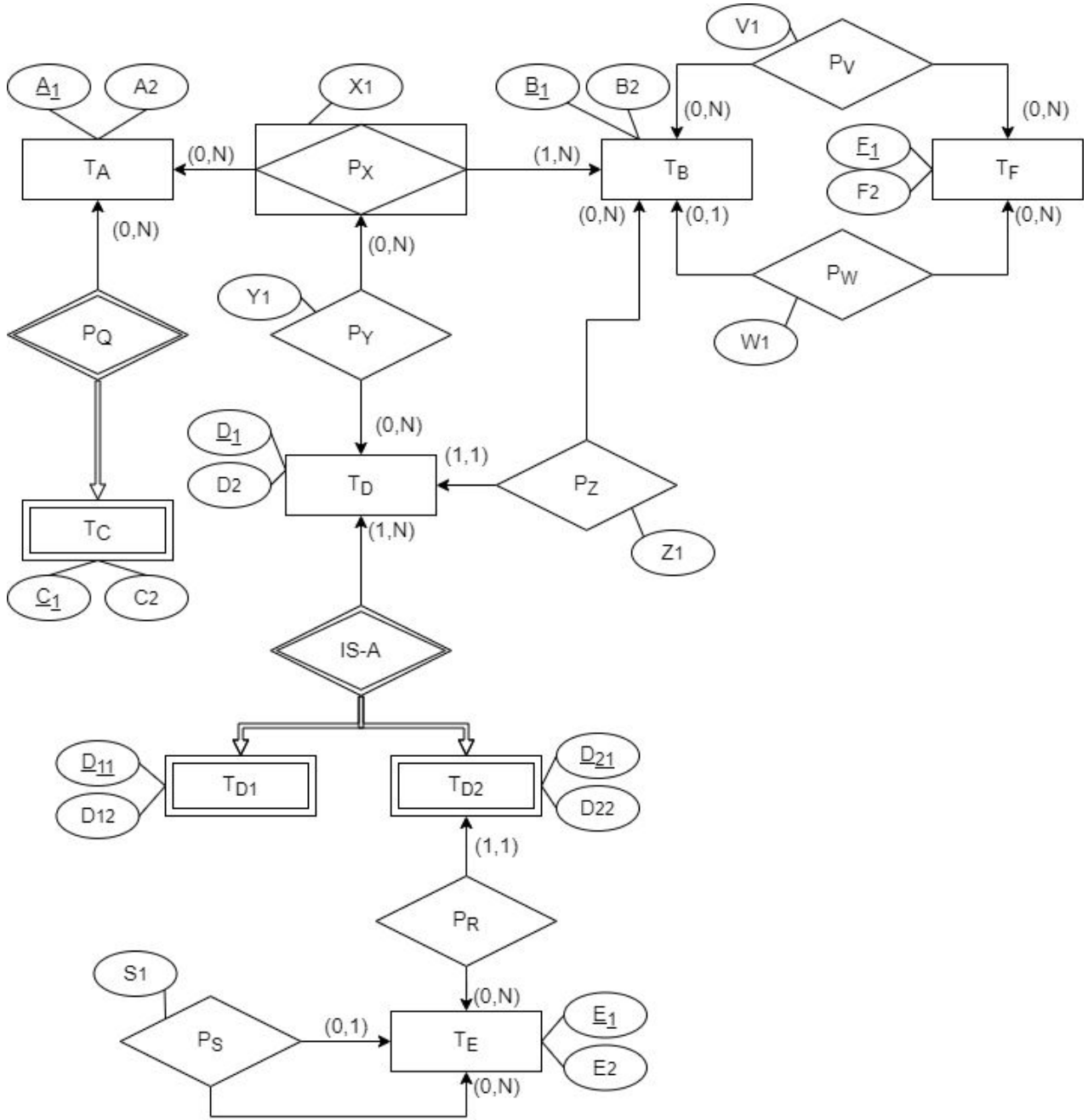
$T_{B1}[B_1] \subseteq T_B[B_1]$

$T_{B2}[B_1] \subseteq T_B[B_1]$

$T_B[B_1] \subseteq T_{B1}[B_1] \cup T_{B2}[B_1]$



Zadatak 2

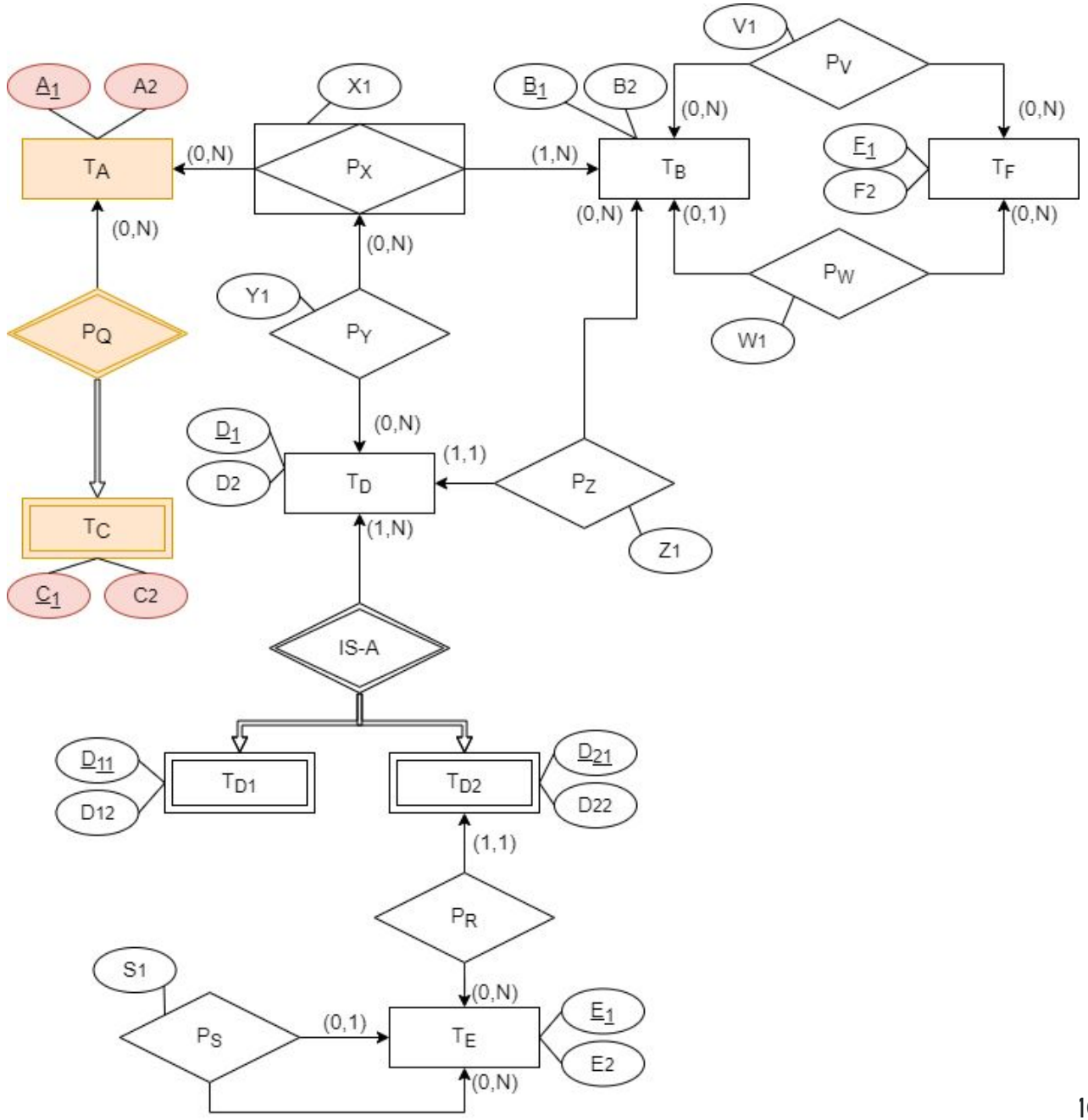

A1
A2
X1
B1
B2
V1
PV
(0,N)
(0,N)
TA
(0,N)
PX
(1,N)
TB
E1
F2
TF
(0,N)
(0,N)
(0,N)
(0,1)
(0,N)
(0,N)
PW
Y1
PQ
PY
W1
D1
(0,N)
(1,1)
D2
TD
PZ
TC
(1,N)
Z1
C1
C2
IS-A
D11
TD1
TD2
D21
D12
D22
(1,1)
PR
S1
(0,N)
(0,1)
PS
TE
E1
E2
(0,N)

Zadatak 2

$T_A(\{A_1, A_2\}, \{A_1\})$

$T_C(\{C_1, C_2, A_1\}, \{A_1 + C_1\})$

$T_C[A_1] \subseteq T_A[A_1]$



Zadatak 2

$T_F(\{F_1, F_2\}, \{F_1\})$

$T_B(\{B_1, B_2, F_{11}, W_1\}, \{B_1\})$

$T_B[F_{11}] \subseteq T_F[F_1]$

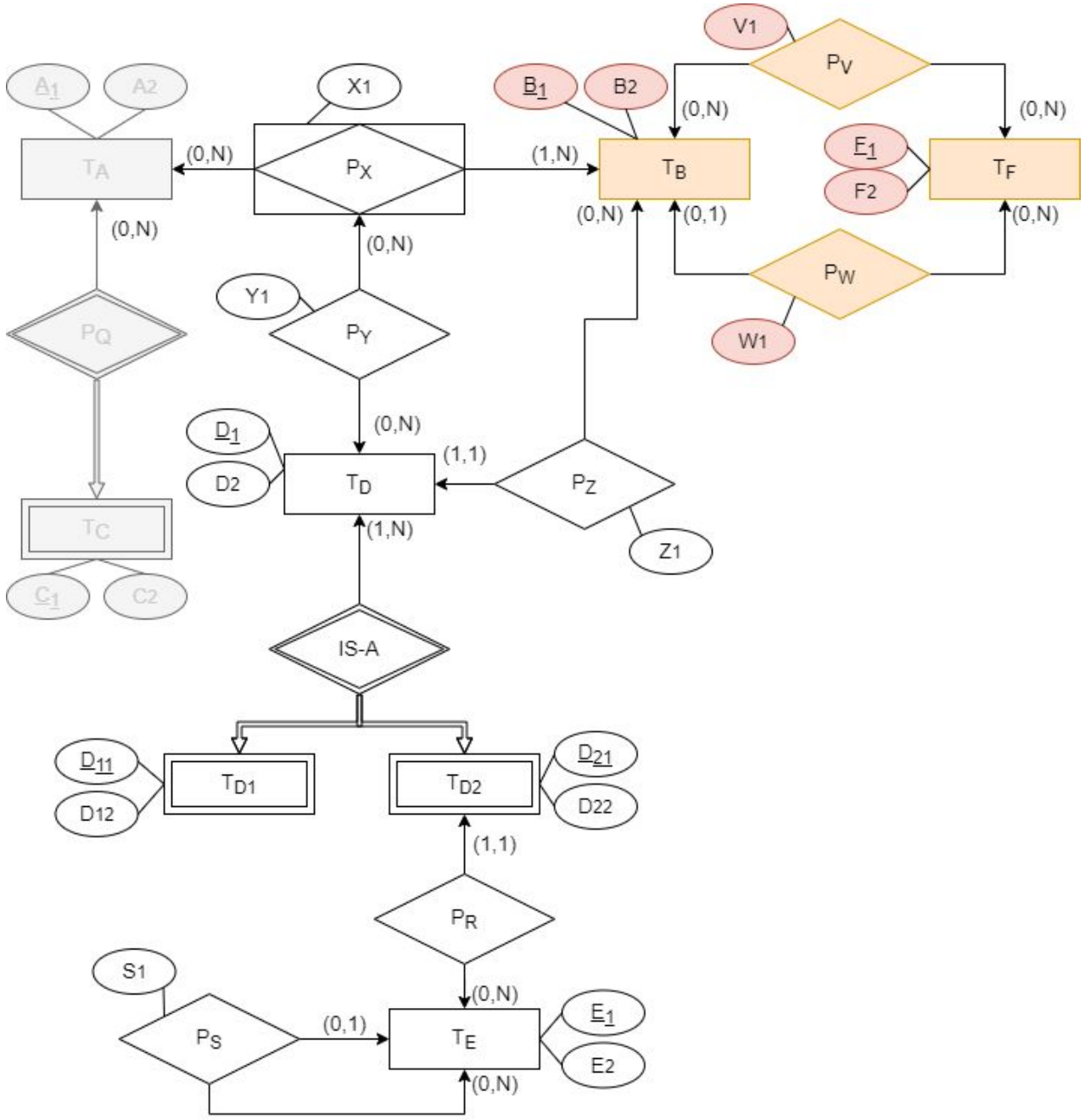
Null(T_B, F_{11}) = T

dom(F_{11}) ⊆ dom(F_1)

$P_V(\{B_1, F_1, V_1\}, \{B_1 + F_1\})$

$P_V[F_1] \subseteq T_F[F_1]$

$P_V[B_1] \subseteq T_B[B_1]$



Zadatak 2

$P_X(\{A_1, B_1, X_1\}, \{A_1 + B_1\})$

$P_X[A_1] \subseteq T_A[A_1]$

$P_X[B_1] \subseteq T_B[B_1]$

$T_B[B_1] \subseteq P_X[B_1]$

$T_D(\{D_1, D_2, B_1, Z_1\}, \{D_1\})$

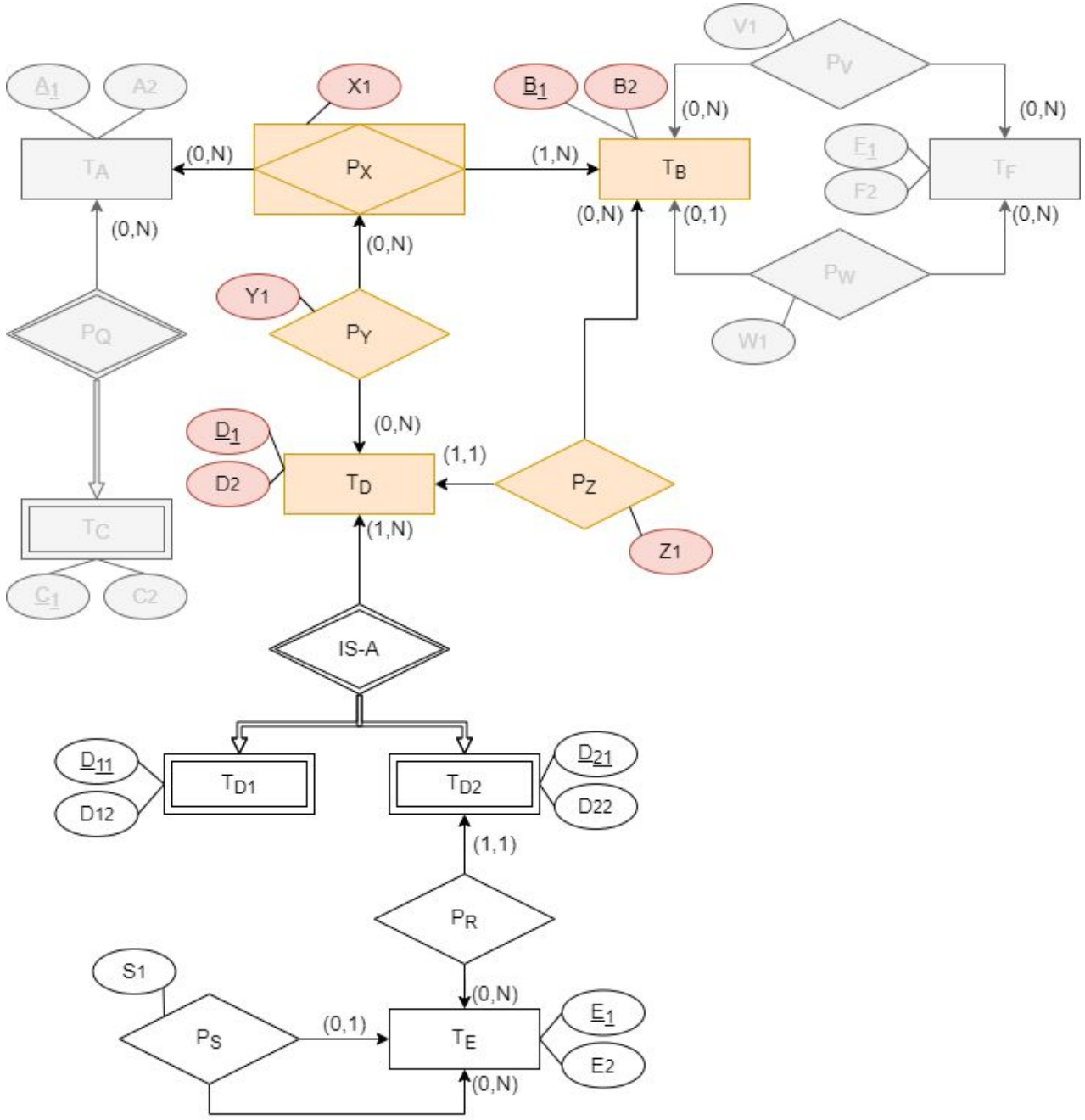
$T_D[B_1] \subseteq T_B[B_1]$

$\text{Null}(T_D, B_1) = \perp$

$P_Y(\{D_1, A_1, B_1, Y_1\}, \{A_1 + B_1 + D_1\})$

$P_Y[D_1] \subseteq T_D[D_1]$

$P_Y[A_1 + B_1] \subseteq P_X[A_1 + B_1]$



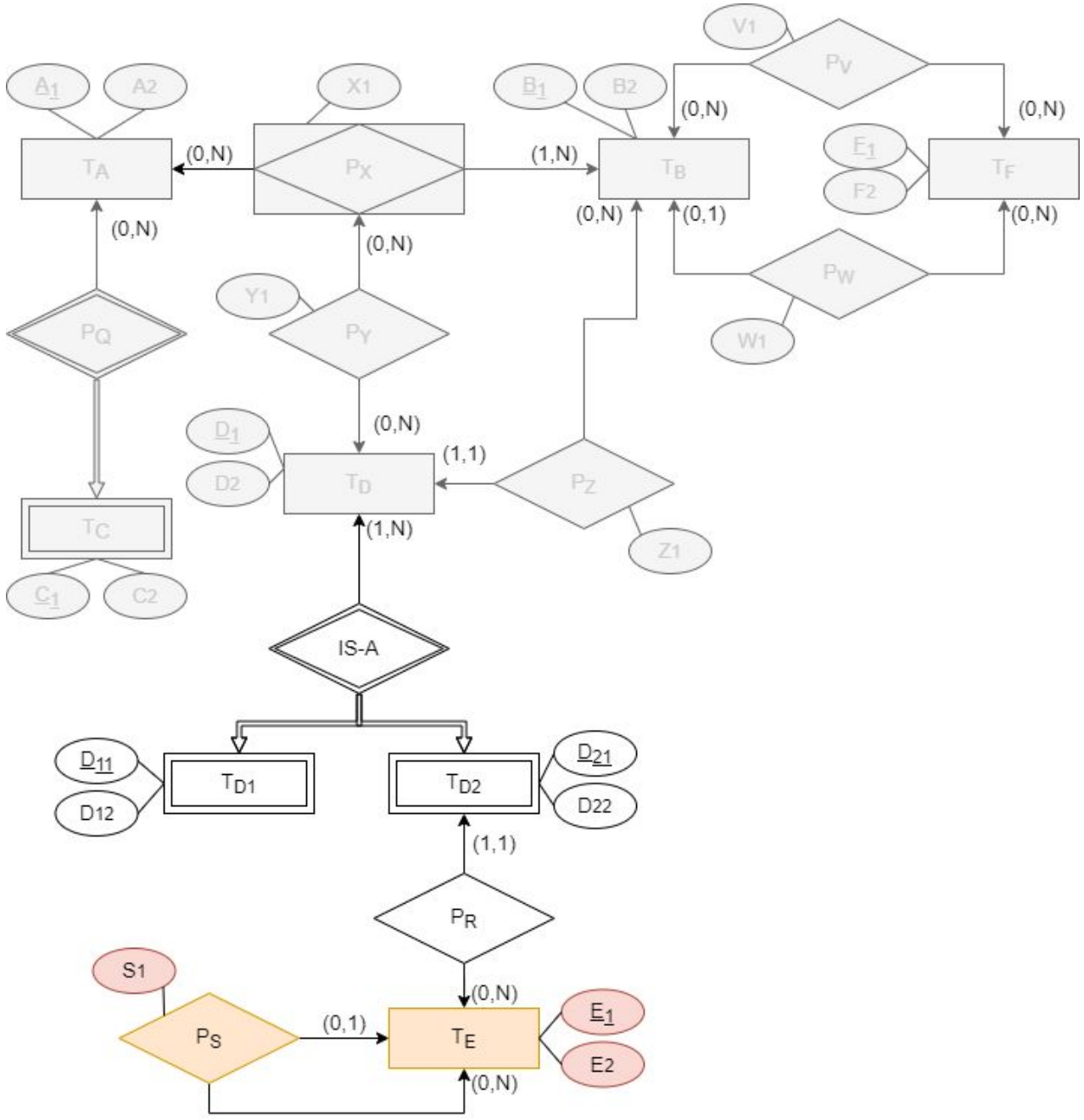
Zadatak 2

$T_E(\{E_1, E_2, E_{11}, S_1\}, \{E_1\})$

$T_E[E_{11}] \subseteq T_E[E_1]$

Null(T_E, E_{11}) = T

dom(E_{11}) ⊆ dom(E_1)



Zadatak 2

$T_{D1}(\{D_{11}, D_{12}, D_1\}, \{D_1, D_{11}\})$

$T_{D2}(\{D_{21}, D_{22}, D_1, E_1\}, \{D_1, D_{21}\})$

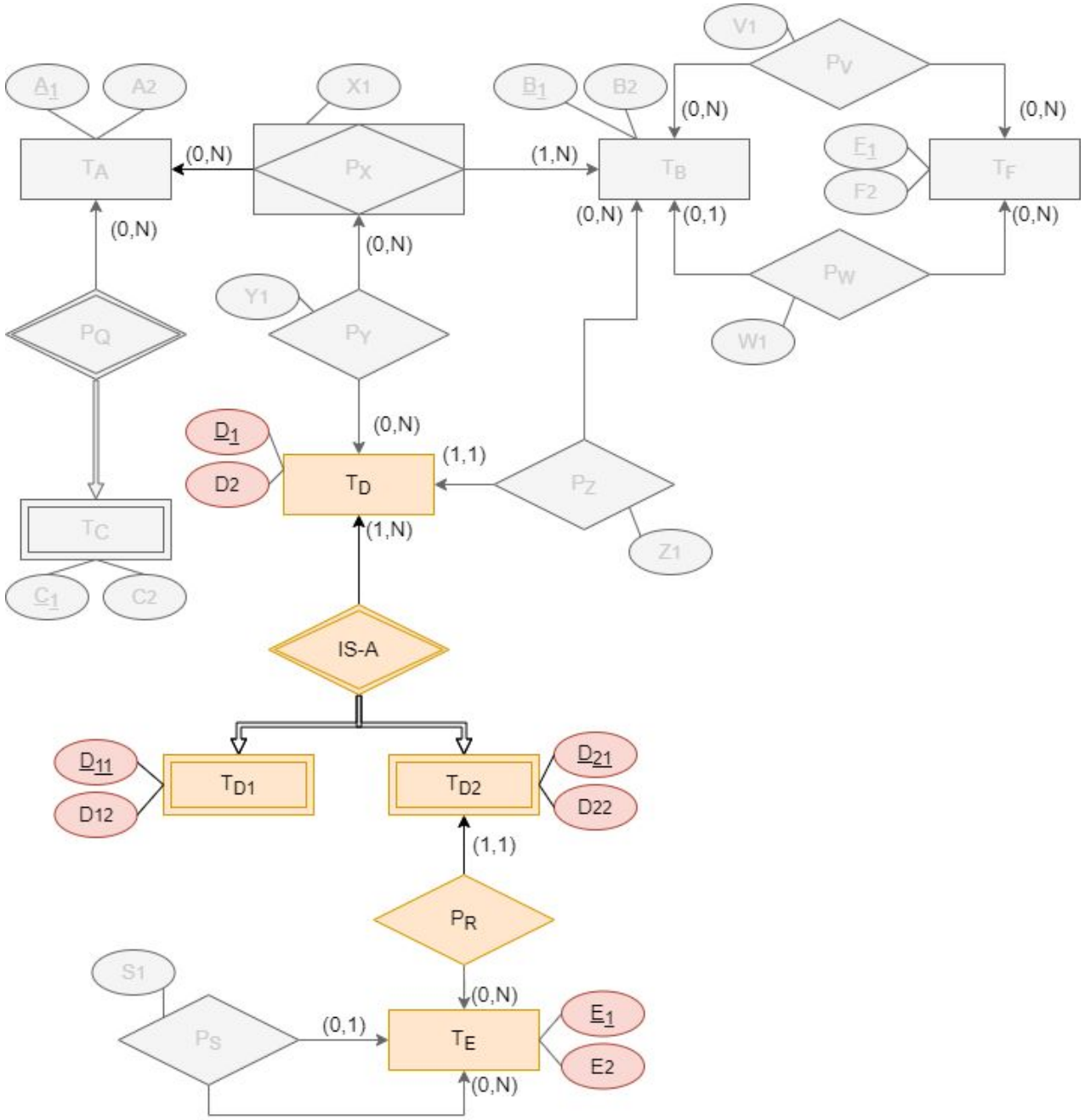
$T_{D1}[D_1] \subseteq T_D[D_1]$

$T_{D2}[D_1] \subseteq T_D[D_1]$

$T_D[D_1] \subseteq T_{D1}[D_1] \cup T_{D2}[D_1]$

$T_{D2}[E_1] \subseteq T_E[E_1]$

$\text{Null}(T_{D2}, E_1) = \perp$



Kraj!

Hvala na pažnji!