10/11/2022

Q1 :

SELECTION (AVION / CAP > 350)

Q2 :

R1 = SELECTION (AVION / LOC = ‘Nice’)

PROJECTION (R1 / NUMAV, NOMAV)

Q3 :

R2 = PROJECTION (VOL / NUMPIL, VILLE\_DEP)

Q4 :

R3 = SELECTION (PILOTE / NUMPIL, ADR = ‘Paris’)

R4 = SELECTION (R2 / SAL > 5000)

Q5 :

R6 = SELECTION (AVION / CAP > 350)

R7 = SELECTION (AVION / LOC = ‘Nice’)

R8 = UNION (R6, R7)

Q6 :

R10 = SELECTION (VOL / VILLE\_DEP = ‘Nice’)

R11 = SELECTION (R10 / VILLE\_ARR = ‘Paris’)

R12 = SELECTION (R11 / H\_DEP > 18h)

PROJECTION (R12 / NUMVOL)

Q7 :

R14 = PROJECTION (PILOTE / NUMPIL)

R15 = PROJECTION (VOL / NUMPIL)

R16 = DIFFERENCE (R14, R15)

Q8 :

R17 = SELECTION (VOL / NUMPIL = 100)

R18 = SELECTION (VOL / NUMPIL = 204)

R19 = PROJECTION (R17 / NUMVOL, VILLE\_DEP)

R20 = PROJECTION (R18 / NUMVOL, VILLE\_DEP)

R23 = UNION (R21, R22)

Q9 :

R1 = JOINTURE (VOL, PILOTE / NUMPIL = NUMPIL)

R2 = SELECTION (R1 / VILLE\_DEP = ‘Nice’)

R3 = SELECTION (R1 / ADR = ‘Paris’)

UNION (R2, R3)

Q10 :

R1 = SELECTION (VOL / LOC = ‘Nice’)

R2 = DIFFERENCE (VOL, R1)

R3 = PROJECTION (VOL / NUMVOL, VILLE\_DEP, VILLE\_ARR)

Q11 :

R1 = SELECTION (VOL / VILLE\_DEP = ‘Nice’)

R2 = SELECTION (AVION / CAP > 300)

R3 = JOINTURE (R1, R2 / NUMAV = NUMAV)

R4 = JOINTURE (R3, PILOTE / NUMPIL = NUMPIL)

PROJECTION (R4 / NUMAV, NOMAV)

Q12 :

R1 = SELECTION (PILOTE / ADR = ‘Paris’)

R2 = SELECTION (VOL / VILLE\_DEP = ‘Nice’)

R3 = SELECTION (AVION / NUMAV = ‘Airbus’)

R4 = JOINTURE (R2, AVION / NUMAV = NUMAV)

R5 = JOINTURE (R2, PILOTE / NUMPIL = NUMPIL)

PROJECTION (R5 / NUMAV)

Q13 :

R1 = SELECTION (AVION / LOC = ‘Paris’)

R2 = SELECTION (VOL / VILLE\_DEP = ‘Nice’)

R3 = SELECTION (VOL / VILLE\_ARR = ‘Nice’)

R4 = SELECTION (PILOTE / LOC = ‘Nice’)

R5 = JOINTURE (R2, R1)

R6 = JOINTURE (R5, R4)

R7 = JOINTURE (R3, R1)

R8 = JOINTURE (R7, R4)

PROJECTION (R6 / NUMAV)

PROJECTION (R8 / NUMAV)

Q14 :

R1 = SELECTION (PILOTE / NOMPIL = ‘Martin’)

R2 = PROJECTION (R1 / LOC)

R3 = SELECTION (PILOTE / LOC = ‘R2’)

PROJECTION (R3 / NUMPIL, NOMPIL)

Q15 :

R1= SELECTION (PILOTE / NOMPIL = ‘Durand’)

R2 = JOINTURE (R1, VOL / NUMPIL = NUMPIL)

R3 = PROJECTION (R2, NUMPIL)

Q16 :

R1 = SELECTION (VOL / VILLE\_DEP = ‘Paris’)

R2 = JOINTURE (VOL, R1 / VILLE\_DEP = VILLE\_ARR)

R3 = PROJECTION (R2, VILLE\_ARR)

Q17 :

R1 = SELECTION (AVION / NUMAV = 100)

R2 = PROJECTION (R1, LOC)

R3 = JOINTURE (AVION, R1 / LOC = LOC)

R4 = PROJECTION (R3, NUMAV)

Q18 :

R1 = SELECTION (PILOTE / NOMPIL = ‘Martin’)

R2 = JOINTURE (PILOTE, R1 / ADR = ADR)

R3 = JOINTURE (PILOTE, R1 / SAL > SAL)

R21 = PROJECTION (R2, NUMPIL, NOMPIL, NUMPIL)

R31 = PROJECTION (R3, NUMPIL, NOMPIL, NUMPIL)

R4 = INTERSECTION (R21, R31)

R5 = PROJECTION (R4, NUMPIL, NOMPIL)

Q19 :

R1 = PROJECTION (PILOTE, NUMPIL, ADR)

R2 = PROJECTION (VOL, NUMPIL, VILLE\_DEP)

R3 = INTERSECTION (R1, R2)

R4 = JOINTURE (PILOTE, R3 / NUMPIL = NUMPIL)

R5 = PROJECTION (R5, NUMPIL, NOMPIL)

Q20 :

R1 = JOINTURE (PILOTE, PILOTE / NOMPIL = NOMPIL)

R2 = JOINTURE (PILOTE, PILOTE / NUMPIL = NUMPIL)

R3 = DIFFERENCE (R1, R2)

R4 = PROJECTION (R3, NUMPIL, NOMPIL)

Q21 :

R1 = SELECTION (VOL / VILLE\_DEP = ‘Lyon’)

R2 = DIFFERENCE (VOL / R1)

R3 = JOINTURE (PILOTE, R2 / NUMPIL = NUMPIL)

PROJECTION (R2 / NUMPIL, NOMPIL)

Q22 :

R1 = PROJECTION (PILOTE / ADR)

R2 = PROJECTION (VOL / VILLE\_DEP)

DIFFERENCE (R1, R2)