**T\_UWWTPS**

* Camp uwwUWWTPSID

és el ID. Jo el canviaria per uwwID i començaria des de 1.

* Camp uwwState
* Camp rptMStateKey
* Camp aggCode

Permet NULL (però que avisi)

* Camp uwwCode
* Camp uwwName

Permet NULL

* Camp uwwCollectingSystem
* Camp uwwDateClosing

Permet NULL

Tipus de camp: Year

* Camp uwwLatitude
* Camp uwwLongitude
* Camp uwwLoadEnteringUWWTP

Permet NULL

* Camp uwwCapacity

Permet NULL

* Camp uwwPrimaryTreatment

Permet NULL

* Camp uwwSecondaryTreatment

Permet NULL

* Camp uwwOtherTreatment

Permet NULL

* Camp uwwNRemoval

Permet NULL

* Camp uwwPRemoval

Permet NULL

* Camp uwwUV

Permet NULL

* Camp UwwChlorination

Permet NULL

* Camp uwwOzonation

Permet NULL

* Camp uwwSandFiltration

Permet NULL

* Camp uwwMicroFiltration
* Permet NULL
* Camp uwwOther

Permet NULL

* Camp uwwBOD5Perf

Permet NULL

* Camp uwwCODPerf

Permet NULL

* Camp uwwTSSPerf

Permet NULL

* Camp uwwNtotPerf

Permet NULL

* Camp uwwPTotPerf

Permet NULL

* Camp uwwOtherPerf

Permet NULL

* Camp uwwEndLife

Permet NULL

Tipus camp: Year

1. Pujar taula (mdb, acces o csv) a mysql
2. Comprovar que no hi hagi camps repetits a uwwID. NO N’HI HA MAI, EL NUMERO EL POSA AUTOMATICAMENT EL SISTEMA (?)
3. Comprovar que no hi hagi duplicats a uwwCode. En cas que n’hi hagi, s’hauria de notificar per tal que l’usuari esculli quin registre vol eliminar
4. Avisar si hi ha NULL en aquells camps on no es permet NULL + avisar si hi ha NULL a aggcode tot i que en permeti
5. Tractaments
   1. Tipus tractament

Primari: Pr

Secundari: S

Terciari: T (si hi ha algun camp de uwwchlorination, uwwozonation, uwwmicrofiltrarion i uwwsandfiltration amb 1, ja es considera terciari)

Nitrogen: N

Fòsfor: P

Combinacions possibles: NULL, Pr, PrS, PrST, PrN, PrP, PrNP, PrSN, PrSP, PrSNP, PrT, PrSTNP, PrSTN, PrSTP, PrTN, PrTP, PrTNP, S, SN, SP, SNP, ST, STN, STP, STNP, T, TN, TNP, TP, NP, N, P.

Condicionals:

si uwwprimarytreatment = NULL; output = NULL

si uwwprimarytreatment = 1; output = Pr

si uwwprimarytreatment = 0; output = No Treatment

si uwwprimarytreatment = 1 and uwwsecondarytreatment = 1; output = PrS

si uwwprimarytreatment = 0 and uwwsecondarytreatment = 1; output= S

si uwwprimarytreatment = NULL and uwwsecondarytreatment = 1; output = S

si uwwprimarytreatment = 1 and uwwsecondarytreatment = 1, and (uwwchlorination = 1 or uwwozonation = 1 or uwwmicrofiltration = 1 or uwwsandfiltration =1); output = PrST

si uwwprimarytreatment = 0 or NULL and uwwsecondarytreatment = 1, and (uwwchlorination = 1 or uwwozonation = 1 or uwwmicrofiltration = 1 or uwwsandfiltration =1); output = ST

si uwwprimarytreatment = 0 or NULL and uwwsecondarytreatment = 0 or NULL, and (uwwchlorination = 1 or uwwozonation = 1 or uwwmicrofiltration = 1 or uwwsandfiltration =1); output = T

si uwwprimarytreatment = 1 and uwwNremoval = 1; output = PrN

si uwwprimarytreatment = 1 and uwwPremoval = 1; output = PrP

si uwwprimarytreatment = 1 and uwwNremoval = 1 and uwwPremoval = 1; output = PrNP

si uwwprimarytreatment=0 or nULL and UwwNremoval =1 and uwwPremoval = 1; output = NP

si uwwprimarytreatment=0 or nULL and UwwNremoval =0 or NULL and uwwPremoval = 1; output = P

si uwwprimarytreatment=0 or nULL and UwwNremoval =1 and uwwPremoval = 0 or NULL; output = N

si uwwprimarytreatment = 1 and uwwsecondarytreatment = 1 and uwwNremoval=1; output = PrSN

si uwwprimarytreatment = 0 or NULL and uwwsecondarytreatment = 1 and uwwNremoval=1; output= SN

si uwwprimarytreatment = 0 or NULL and uwwsecondarytreatment = 0 or NULL and uwwNremoval = 1; output = N

si uwwprimarytreatment = 1 and uwwsecondarytreatment = 1 and uwwPremoval = 1; output = PrSP

si uwwprimarytreatment = 0 or NULL and uwwsecondarytreatment = 1 and uwwPremoval =1; output= SP

si uwwprimarytreatment = 0 or NULL and uwwsecondarytreatment = 0 or NULL and uwwPremoval =1; output = P

si uwwprimarytreatment = 1 and uwwsecondarytreatment = 1 and uwwNremoval=1 and uwwPremoval = 1; output = PrSNP

si uwwprimarytreatment = 0 or NULL and uwwsecondarytreatment = 1 and uwwNremoval=1 and uwwPremoval = 1; output= SNP

si uwwprimarytreatment = 0 or NULL and uwwsecondarytreatment = 0 or NULL and uwwNremoval = 1 and uwwPremoval = 1; output = NP

si uwwprimarytreatment = 1 and uwwsecondarytreatment = 1, and (uwwchlorination = 1 or uwwozonation = 1 or uwwmicrofiltration = 1 or uwwsandfiltration =1) and uwwNremoval=1; output = PrSTN

si uwwprimarytreatment = 0 or NULL and uwwsecondarytreatment = 1, and (uwwchlorination = 1 or uwwozonation = 1 or uwwmicrofiltration = 1 or uwwsandfiltration =1) and uwwNremoval=1; output = STN

si uwwprimarytreatment = 0 or NULL and uwwsecondarytreatment = 0 or NULL, and (uwwchlorination = 1 or uwwozonation = 1 or uwwmicrofiltration = 1 or uwwsandfiltration =1) and uwwNremoval=1; output = TN

si uwwprimarytreatment = 1 and uwwsecondarytreatment = 1, and (uwwchlorination = 1 or uwwozonation = 1 or uwwmicrofiltration = 1 or uwwsandfiltration =1) and uwwPremoval=1; output = PrSTP

si uwwprimarytreatment = 0 or NULL and uwwsecondarytreatment = 1, and (uwwchlorination = 1 or uwwozonation = 1 or uwwmicrofiltration = 1 or uwwsandfiltration =1) and uwwNremoval=1; output = STP

si uwwprimarytreatment = 0 or NULL and uwwsecondarytreatment = 0 or NULL, and (uwwchlorination = 1 or uwwozonation = 1 or uwwmicrofiltration = 1 or uwwsandfiltration =1) and uwwNremoval=1; output = TP

si uwwprimarytreatment = 1 and uwwsecondarytreatment = 1, and (uwwchlorination = 1 or uwwozonation = 1 or uwwmicrofiltration = 1 or uwwsandfiltration =1) and uwwNremoval=1 and uwwPremoval=1; output = PrSTNP

si uwwprimarytreatment = 0 or NULL and uwwsecondarytreatment = 1, and (uwwchlorination = 1 or uwwozonation = 1 or uwwmicrofiltration = 1 or uwwsandfiltration =1) and uwwNremoval= and uwwPremoval=1; output = STNP

si uwwprimarytreatment = 0 or NULL and uwwsecondarytreatment = 0 or NULL, and (uwwchlorination = 1 or uwwozonation = 1 or uwwmicrofiltration = 1 or uwwsandfiltration =1) and uwwNremoval=1 and uwwPremoval=1; output = TNP

Un cop fet els condicionals, caldrà afegir una columna amb el nom: uwwTypeofTreatment i el resultat de cada condicional

**T\_Agglomerations**

* AggCode (clau primària)
* AggName

Permet NULL

* AggEndLife

Permet NULL

Tipus camp Year

* AggGenerated

Permet NULL

* AggLatitude
* AggLongitude
* AggC1 canviar per C1

Permet NULL

* AggC2 canviar per C2

Permet NULL

* AggPercWithoutTreatment canviar per C3

Permet NULL

* AggState

1. Pujar taula (csv) a mysql.
2. Comprovar que no hi hagi duplicats en AggCode. En cas afirmatiu, notificar per tal que l’usuari decideixi quin registre eliminar
3. Avisar quan hi ha registres amb NULL en aquells camps on no es permet NULL

**T\_DischargePoints**

* dcpDiscargePointsID

és la clau primaria. Jo canviaria per dcpID i començaria des d’1

* dcpState
* uwwCode
* dcpCode (mirar si és aquesta la clau primària) (no poden haverhi duplicats)
* dcpName

Permet NULL

* dcpLatitude
* dcpLongitude
* dcpWaterBodyType
* dcpIrrigation

Permet NULL

* dcpTypeofReceivingArea

Permet NULL

* rcaCode

Permet NULL

* dcpSurfaceWaters

Permet NULL

* dcpWaterBodyID

Permet NULL

* dcpEndLife

Permet NULL

Tipus camp: Year

1. Pujar taula (csv) a mysql
2. Comprovar que no hi hagi camps repetits a dcpID (pendent revisar, de moment no aplicar).
3. Avisar quan hi ha registres amb NULL en aquells camps on no es permet NULL

**T\_UWWTPS\_emission\_load**

* uwwCode
* uwwName

Permet NULL

* uwwBODIncoming

Permet NULL

* uwwCODIncoming

Permet NULL

* uwwNIncoming

Permet NULL

* uwwPIncoming

Permet NULL

* uwwBODDischarge

Permet NULL

* uwwCODDischarge

Permet NULL

* uwwNDischarge

Permet NULL

* uwwPDischarge

Permet NULL

1. Pujar taula csv a mysql
2. Comprovar que no hi hagi duplicats a uwwCode. En cas que n’hi hagi, s’hauria de notificar per tal que l’usuari esculli quin registre vol eliminar
3. Notificar si hi ha registres en NULL en aquells camps on no es permet NULL

**T\_UWWTPAgglos**

* AucUWWTP\_AggloID

És la clau primaria. Jo la canviaria per uww\_aggloID, i començaria des d’1

* aucUwwCode canviar per uwwCode
* aucAggCode canviar per aggCode
* aucPercEnteringUWWTP, canviar per C4

Permet NULL

* aucPercC2T, canviar per C5

Permet NULL

1. Pujar taula (mdb, acces o csv) a mysql
2. Comprovar que no hi hagi camps repetits a uww\_aggloID
3. Notificar si hi ha registres amb NULL en aquells camps que no permet NULL

**Ajuntar taules**

* Ajuntar totes les taules

T\_UWWTPS + T\_Agglomeration + T\_UWWTPS\_emission\_load + T\_DisxhchargePoint (aquesta de moment no juntar) + relacions Agg-Uww

* Crear un nou camp anomenat C6 = C1-C4
* Crear un nou camp anomenat comprovació = C1 + C2 + C3 +C5 (ha de donar 100)
* Operacions:

Si camp Comprovació no dóna 100:

1. si Error == C5  C2 = C2 – C5
2. si Error == C6  C1 = C1 – C6 ; C4 = C4 – C6
3. else Distribuir l’error. Exemple:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| C1 | C2 | C3 | C5 | Comprovació |
| 95 | 5 | 3 | 3 | 106 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| C1 | C2 | C3 | C5 | Comprovació |
| (95/106)x100 = 89,62 | (5/106)x100 = 4,72 | (3/106)x100 = 2,83 | (3/106)x100 =2,83 | 100 |

Nom output: T\_UWWTD\_final

err = Comprovació – 100;

**Si (err == C5) // aplicar 1.**

C2\_aux = C2 – C5;

Comprovació\_aux = C1 + C2 + C3 + C5;

err\_aux = comprovació\_aux – 100;

**Si (err\_aux > 0) // mirar si err == C6 i aplicar 2.**

**Sino Si (err == C6) // aplicar 2.**

C1\_aux = C1 – C6;

C4\_aux = C4 – C6;

Comprovació\_aux = C1 + C2 + C3 + C5;

err\_aux = comprovació\_aux – 100;

**Si (err\_aux > 0) // aplicar 3.**

**Sino // Aplicar 3 (sempre funciona)**