Modèle Conceptuel de Données (MCD)

# adjointclasse

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | matricule | varchar(20) | Yes | None |
| 2 | first\_name | varchar(50) | Yes | None |
| 3 | last\_name | varchar(50) | Yes | None |
| 4 | email | varchar(254) | No | None |

# administrateur

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | matricule | varchar(20) | No | None |
| 2 | first\_name | varchar(50) | Yes | None |
| 3 | last\_name | varchar(50) | Yes | None |
| 4 | adresse | varchar(100) | Yes | None |
| 5 | telephone | INTEGER | No | None |
| 6 | email | varchar(254) | Yes | None |
| 7 | qr\_code | varchar(100) | No | None |
| 8 | photo | varchar(100) | No | None |

# comptable

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | matricule | varchar(20) | Yes | None |
| 2 | first\_name | varchar(50) | Yes | None |
| 3 | last\_name | varchar(50) | Yes | None |
| 4 | email | varchar(254) | Yes | None |

# filiere

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | nom | varchar(100) | Yes | None |
| 2 | responsable\_id | INTEGER | No | None |

# responsableclasse

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | matricule | varchar(20) | Yes | None |
| 2 | first\_name | varchar(50) | Yes | None |
| 3 | last\_name | varchar(50) | Yes | None |
| 4 | email | varchar(254) | No | None |

# responsablefiliere

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | matricule | varchar(20) | Yes | None |
| 2 | first\_name | varchar(50) | Yes | None |
| 3 | last\_name | varchar(50) | Yes | None |
| 4 | profession | varchar(100) | No | None |
| 5 | email | varchar(254) | No | None |
| 6 | num\_tel | INTEGER | No | None |
| 7 | grade | varchar(20) | Yes | None |
| 8 | qr\_code | varchar(100) | No | None |
| 9 | photo | varchar(100) | No | None |

# oberver\_paiement

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | comptable\_id | INTEGER | No | None |
| 2 | paiement\_id | bigint | No | None |

# programme

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | code\_programme | varchar(50) | Yes | None |
| 2 | niveau | varchar(50) | Yes | None |
| 3 | responsablefiliere\_id | INTEGER | Yes | None |

# responsablemetier

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | matricule | varchar(20) | Yes | None |
| 2 | first\_name | varchar(50) | Yes | None |
| 3 | last\_name | varchar(50) | Yes | None |
| 4 | profession | varchar(100) | No | None |
| 5 | email | varchar(254) | No | None |
| 6 | num\_tel | INTEGER | No | None |
| 7 | status | varchar(20) | No | None |
| 8 | responsable\_id | INTEGER | No | None |
| 9 | administrateur\_id | INTEGER | No | None |

# classe

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | name | varchar(100) | Yes | None |
| 2 | promo | INTEGER | No | None |
| 3 | description | TEXT | No | None |
| 4 | filiere\_id | INTEGER | No | None |
| 5 | responsableMetier\_id | INTEGER | No | None |

# paiement

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | montant | decimal | Yes | None |
| 2 | date\_paiement | datetime | Yes | None |
| 3 | moyen\_paiement | varchar(10) | Yes | None |
| 4 | est\_paye | bool | Yes | None |
| 5 | student\_id | INTEGER | Yes | None |

# consulter\_planning

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | planning\_id | INTEGER | No | None |
| 2 | student\_id | INTEGER | No | None |

# teacher

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | matricule | varchar(20) | Yes | None |
| 2 | first\_name | varchar(50) | Yes | None |
| 3 | last\_name | varchar(50) | Yes | None |
| 4 | profession | varchar(100) | No | None |
| 5 | email | varchar(254) | No | None |
| 6 | num\_tel | INTEGER | No | None |
| 7 | status | varchar(20) | No | None |
| 8 | qr\_code | varchar(100) | No | None |
| 9 | comptable\_id | INTEGER | No | None |
| 10 | responsable\_id | INTEGER | No | None |

# projet

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | libelle | varchar(50) | No | None |
| 2 | description | TEXT | No | None |
| 3 | file | varchar(100) | No | None |
| 4 | media\_type | varchar(10) | No | None |
| 5 | date | datetime | Yes | None |
| 6 | responsable\_id | INTEGER | No | None |
| 7 | student\_id | INTEGER | No | None |
| 8 | teacher\_id | INTEGER | No | None |

# note

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | note\_eva1 | REAL | Yes | None |
| 2 | note\_eva2 | REAL | Yes | None |
| 3 | integration | REAL | Yes | None |
| 4 | moyen\_semes | REAL | Yes | None |
| 5 | administrateur\_id | INTEGER | No | None |
| 6 | classe\_id | INTEGER | No | None |
| 7 | matiere\_id | INTEGER | No | None |
| 8 | responsable\_id | INTEGER | No | None |
| 9 | student\_id | INTEGER | No | None |
| 10 | teacher\_id | INTEGER | No | None |

# media

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | title | varchar(255) | Yes | None |
| 2 | description | TEXT | No | None |
| 3 | media\_type | varchar(10) | No | None |
| 4 | file | varchar(100) | Yes | None |
| 5 | uploaded\_at | datetime | Yes | None |
| 6 | classe\_id | INTEGER | No | None |
| 7 | student\_id | INTEGER | No | None |
| 8 | teacher\_id | INTEGER | No | None |

# enseigner

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | classe\_id | INTEGER | No | None |
| 2 | matiere\_id | INTEGER | No | None |
| 3 | responsable\_id | INTEGER | No | None |
| 4 | student\_id | INTEGER | No | None |
| 5 | teacher\_id | INTEGER | No | None |

# cahierdecours

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | date | date | Yes | None |
| 2 | horaire | varchar(35) | No | None |
| 3 | duree | varchar(5) | No | None |
| 4 | competence | varchar(100) | Yes | None |
| 5 | uea | varchar(5) | No | None |
| 6 | elements\_constituifs | TEXT | Yes | None |
| 7 | duree\_theorie | varchar(5) | No | None |
| 8 | corpus\_theorie | TEXT | No | None |
| 9 | duree\_td | varchar(5) | No | None |
| 10 | corpus\_td | TEXT | No | None |
| 11 | duree\_tp | varchar(5) | No | None |
| 12 | corpus\_tp | TEXT | No | None |
| 13 | duree\_tpa | varchar(5) | No | None |
| 14 | corpus\_tpa | TEXT | No | None |
| 15 | duree\_stage | varchar(5) | No | None |
| 16 | corpus\_stage | TEXT | No | None |
| 17 | adjoint\_id | INTEGER | No | None |
| 18 | classe\_id | INTEGER | No | None |
| 19 | responsable\_id | INTEGER | No | None |
| 20 | teacher\_id | INTEGER | No | None |

# bulletin

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | moyen\_semes1 | REAL | Yes | None |
| 2 | moyen\_semes2 | REAL | Yes | None |
| 3 | moyen\_semes3 | REAL | Yes | None |
| 4 | moyen\_semes4 | REAL | Yes | None |
| 5 | moyen\_annuel | REAL | Yes | None |
| 6 | matiere\_id | INTEGER | No | None |
| 7 | responsable\_id | INTEGER | No | None |
| 8 | student\_id | INTEGER | No | None |
| 9 | teacher\_id | INTEGER | No | None |

# associer

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | responsable\_id | INTEGER | No | None |
| 2 | teacher\_id | INTEGER | No | None |

# student

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | matricule | varchar(20) | Yes | None |
| 2 | first\_name | varchar(50) | Yes | None |
| 3 | last\_name | varchar(50) | Yes | None |
| 4 | email | varchar(254) | No | None |
| 5 | qr\_code | varchar(100) | No | None |
| 6 | photo | varchar(100) | No | None |
| 7 | classe\_id | INTEGER | No | None |
| 8 | filiere\_id | INTEGER | No | None |
| 9 | metier | varchar(50) | No | None |

# matiere

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | code\_matiere | varchar(20) | Yes | None |
| 2 | nom\_matiere | varchar(100) | Yes | None |
| 3 | volume | INTEGER | No | None |
| 4 | semestre | varchar(10) | No | None |
| 5 | filiere\_id | INTEGER | No | None |
| 6 | responsable\_id | INTEGER | No | None |
| 7 | teacher\_id | INTEGER | No | None |
| 8 | ue | varchar(100) | No | None |
| 9 | credit | INTEGER | No | None |

# planning

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | date | date | Yes | None |
| 2 | premiere\_heure | time | Yes | None |
| 3 | deuxieme\_heure | time | Yes | None |
| 4 | troisieme\_heure | time | Yes | None |
| 5 | classe\_id | INTEGER | No | None |
| 6 | responsable\_id | INTEGER | No | None |
| 7 | professeur\_id | INTEGER | No | None |
| 8 | matiere\_id | INTEGER | No | None |
| 9 | salle | varchar(4) | No | None |

# pointage

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Type | Not Null | Default Value |
| 0 | id | INTEGER | Yes | None |
| 1 | date | date | Yes | None |
| 2 | arrivee | time | No | None |
| 3 | sortie | time | No | None |
| 4 | student\_id | INTEGER | No | None |
| 5 | teacher\_id | INTEGER | No | None |
| 6 | classe\_id | INTEGER | No | None |
| 7 | total | bigint | No | None |