|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Teams | | | | |
| **PK/FK** | **Name** | **Description** | **Type** | **Constraint** |
| PK | team\_id | Unique team id # | INTEGER | PRIMARY\_KEY |
|  | name |  | TEXT | NOT NULL |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Users | | | | |
| **PK/FK** | **Name** | **Description** | **Type** | **Constraint** |
| PK | user\_id | Unique id # | INTEGER | PRIMARY\_KEY |
|  | user\_name | LDAP | TEXT | CHECK length() > 5 |
| FK | role\_id |  | INTEGER | FK for Roles(role\_id) |
|  | password |  | TEXT | CHECK length() > 8 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Tasks | | | | |
| **PK/FK** | **Name** | **Description** | **Type** | **Constraint** |
| PK | task\_id | Unique task id # | INTEGER | PRIMARY\_KEY |
| FK | project\_id |  | INTEGER | FK for Projects(project\_id) |
| FK | status\_id |  | INTEGER | FK for Statuses(status\_id) |
|  | creation\_date |  | DATE | DEFAULT now()::date |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Project | | | | |
| **PK/FK** | **Name** | **Description** | **Type** | **Constraint** |
| PK | project\_id | Unique id # | INTEGER | PRIMARY\_KEY |
|  | name |  | TEXT | CHECK length() > 0 |
|  | description |  | TEXT | CHECK length() < 200 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Actions | | | | |
| **PK/FK** | **Name** | **Description** | **Type** | **Constraint** |
| PK | action\_id | Unique id # | INTEGER | PRIMARY\_KEY |
| FK | user\_id | Id of author of action | INTEGER | FK for Users(user\_id) |
|  | label | Type of action | TEXT | #Fixed list of labels |
| FK | task\_id | Id where action belongs | INTEGER | FK for Tasks(task\_id) |
|  | time | Time of action | DATE | DEFAULT now()::date |
|  | object | Object of action | JSON |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Statuses history | | | | |
| **PK/FK** | **Name** | **Description** | **Type** | **Constraint** |
| PK, FK | task\_id |  | INTEGER | FK for Tasks.task\_id |
| PK, FK | status\_id |  | INTEGER | FK for Statuses.status\_id |
|  | valid\_untill |  | DATE | DEFAULT now()::date |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Roles | | | | |
| **PK/FK** | **Name** | **Description** | **Type** | **Constraint** |
| PK | role\_id | Unique id # | INTEGER | PRIMARY\_KEY |
|  | name |  | TEXT |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Statuses | | | | |
| **PK/FK** | **Name** | **Description** | **Type** | **Constraint** |
| PK | statuse\_id | Unique id # | INTEGER | PRIMARY\_KEY |
|  | name |  | TEXT | CHECK length() < 15 |

SCD4 – версионирование статусов задач с помощью новой таблицы, так как обращение к истории будет во много раз реже, чем к текущим статусам.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Teams X Projects | | | | |
| **PK/FK** | **Name** | **Description** | **Type** | **Constraint** |
| PK, FK | task\_id |  | INTEGER |  |
| PK, FK | project\_id |  | INTEGER |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Projects X Statuses | | | | |
| **PK/FK** | **Name** | **Description** | **Type** | **Constraint** |
| PK, FK | project\_id |  | INTEGER |  |
| PK, FK | status\_id |  | INTEGER |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Project X Users | | | | |
| **PK/FK** | **Name** | **Description** | **Type** | **Constraint** |
| PK, FK | project\_id |  | INTEGER |  |
| PK, FK | user\_id |  | INTEGER |  |