SL Time Tracker ERD

Image3.png

Clarence Mitchell

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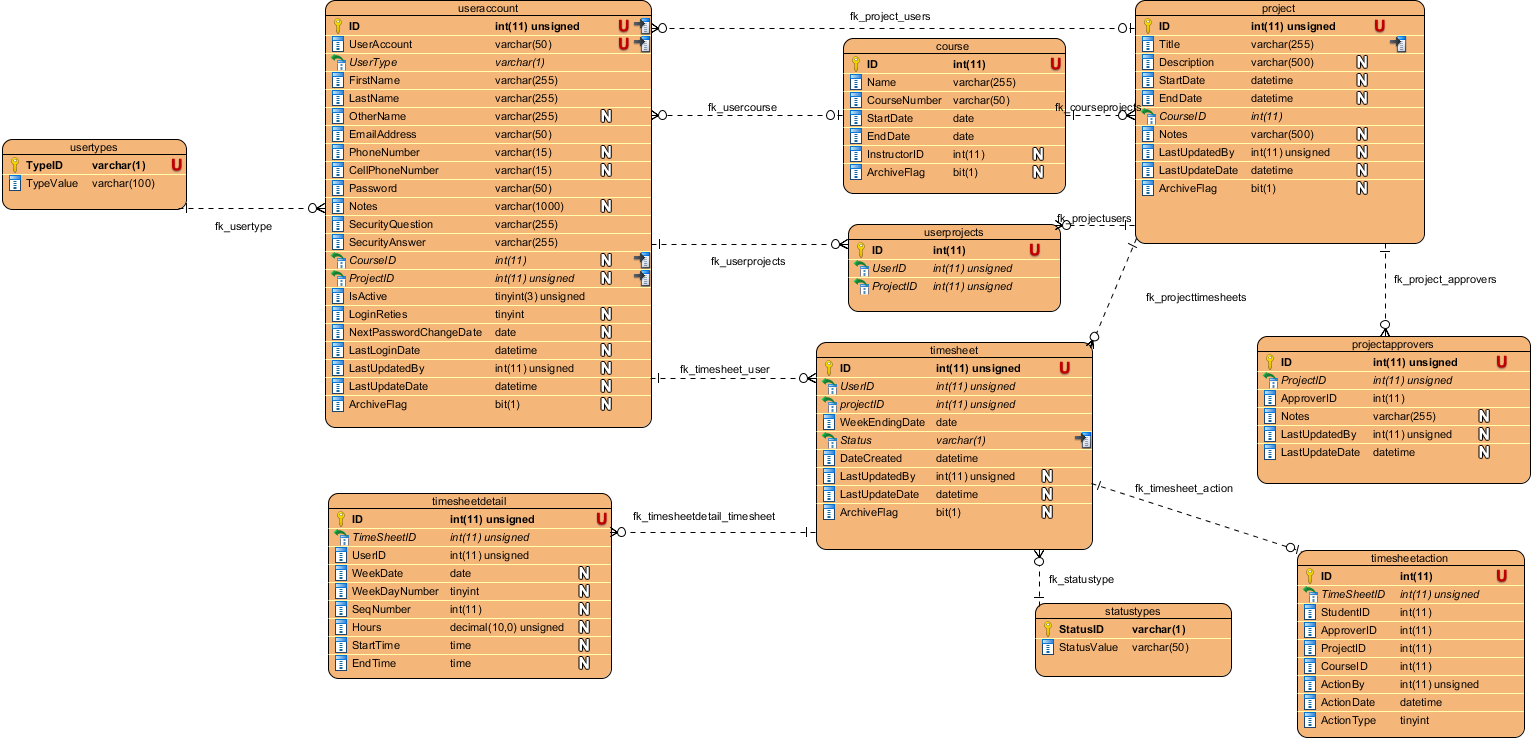
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Entity Relationship Diagram

# SL Time Tracker

|  |  |  |
| --- | --- | --- |
| Name | Value | |
| **Name** | | SL Time Tracker |
| **Author** | | Clarence Mitchell |
| **Create Date Time** | | Nov 7, 2015 3:03:00 PM |
| **Last Modified** | | Dec 17, 2015 9:58:19 PM |
| **Teamwork Create Date Time** | | Dec 31, 1969 4:00:00 PM |
| **Point Connector End To Compartment Member** | | true |
| **Data Model** | | Physical |

## Summary

|  |  |
| --- | --- |
| Name | Description |
| **Image1.png** [**useraccount**](#m2Ws_oqAUICypAZb) | Service Learning User accounts that can access the system |
| **Image1.png** [**project**](#Ln5s_oqAUICypAZu) | Service Learning Projects. Linked to course via course id |
| **Image1.png** [**course**](#eRUomYqAUICypAbf) | Service Learning Courses |
| **Image1.png** [**usertypes**](#hp1u.YqAUICypAzK) | Contains valid values for usertypes:    A - Approver  I - Instructor  S - Student  Z - Admin |
| **Image1.png** [**userprojects**](#hAl6uYqAUICypAj3) | Links users to projects. User can be on multiple projects and projects can have multiple users |
| **Image1.png** [**projectapprovers**](#3EyC_oqAUICypAc1) | Service Learning TimeSheet Approvers for Projects. Linked to Project via project id |
| **Image1.png** [**timesheet**](#o7Lb_oqAUICypAi5) | Service Learning TimesSheets for students |
| **Image1.png** [**timesheetdetail**](#3ki7_oqAUICypAj5) | Service Learning Timesheet entry records (1 for each start and end time on timesheet) |
| **Image1.png** [**timesheetaction**](#YbyimYqAUICypAk4) | Service Learning TimeSheet Actions. Contains list of actions that require response.  TimeSheet submit generates a record that requires approve or reject  TimeSheet reject generates a record that requires resubmit |
| **Image1.png** [**statustypes**](#Pc.jFYqAUICypAd6) | Contains valid values for statustypes    A - Approved Timesheet  N - New Timesheet  R - Rejected Timesheet  S - Submitted Timesheet |

## Details

### Image2.png useraccount

|  |  |  |
| --- | --- | --- |
| Name | Value | |
| **Description** | | Service Learning User accounts that can access the system |
| **Data Model** | | Physical |
| **Records** | | N/A |
| **Primary Key Clustered** | | Unspecified |
| **Project Management** | | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

#### Columns Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | DataType | Constraints | Nullable | Description |
| ID | int(11) | PKUnique | No |  |
| UserAccount | varchar(50) | Unique | No | If Student then User OtterID, otherwise first Letter of User's first name, first 3 of User's last name and random 4 digits... |
| UserType | varchar(1) | FK ([usertypes.TypeID](#hp1u.YqAUICypAzL)) | No | Link key for usertypes |
| FirstName | varchar(255) |  | No | User's First Name |
| LastName | varchar(255) |  | No | User's Last Name |
| OtherName | varchar(255) |  | Yes | User's Nick Name or Other name |
| EmailAddress | varchar(50) |  | No | User's Email Address |
| PhoneNumber | varchar(15) |  | Yes | User's telephone number |
| CellPhoneNumber | varchar(15) |  | Yes | User's cell phone number |
| Password | varchar(50) |  | No | encrypted password |
| Notes | varchar(1000) |  | Yes | Notes on user |
| SecurityQuestion | varchar(255) |  | No | Security questions for forgotten password |
| SecurityAnswer | varchar(255) |  | No | security question answer for forgotten password |
| CourseID | int(11) | FK ([course.ID](#eRUomYqAUICypAbg)) | Yes | link to course |
| ProjectID | int(11) | FK ([project.ID](#tr20_oqAUICypAWs)) | Yes | ID of project user is assigned to if type is student |
| IsActive | tinyint |  | No | flag for deactivating user  0 - Not Active User  1 - Active user |
| LoginReties | tinyint |  | Yes | Number of tries on last attempt to login.... |
| NextPasswordChangeDate | date |  | Yes | date when password must be changed |
| LastLoginDate | datetime |  | Yes | date of last login |
| LastUpdatedBy | int(11) |  | Yes | who made last update |
| LastUpdateDate | datetime |  | Yes | date of last update |
| ArchiveFlag | bit(1) |  | Yes | Set true (not zero) when user account has been archived otherwise false (zero) |

#### Columns

|  |  |
| --- | --- |
| ID | |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | true |
| Primary Key | true |
| Index | true |
| Length | 11 |
| Scale | 0 |
| Id Generator | identity |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:24 PM | | Last Modified | Dec 13, 2015 1:08:54 PM | |

|  |  |
| --- | --- |
| UserAccount | |
| Description | If Student then User OtterID, otherwise first Letter of User's first name, first 3 of User's last name and random 4 digits... |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | true |
| Primary Key | false |
| Index | true |
| Length | 50 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 13, 2015 3:13:59 PM | | Last Modified | Dec 13, 2015 3:20:10 PM | |

|  |  |
| --- | --- |
| UserType | |
| Description | Link key for usertypes |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 1 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:35:57 PM | | Last Modified | Dec 17, 2015 9:36:20 PM | |

|  |  |
| --- | --- |
| FirstName | |
| Description | User's First Name |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | varchar(255) |
| Length | 255 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:24 PM | | Last Modified | Dec 13, 2015 1:59:38 PM | |

|  |  |
| --- | --- |
| LastName | |
| Description | User's Last Name |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | varchar(255) |
| Length | 255 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:24 PM | | Last Modified | Dec 13, 2015 1:59:38 PM | |

|  |  |
| --- | --- |
| OtherName | |
| Description | User's Nick Name or Other name |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | varchar(255) |
| Length | 255 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:24 PM | | Last Modified | Dec 13, 2015 1:59:38 PM | |

|  |  |
| --- | --- |
| EmailAddress | |
| Description | User's Email Address |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | varchar(50) |
| Length | 50 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:24 PM | | Last Modified | Dec 14, 2015 1:57:27 PM | |

|  |  |
| --- | --- |
| PhoneNumber | |
| Description | User's telephone number |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | varchar(15) |
| Length | 15 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:24 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

|  |  |
| --- | --- |
| CellPhoneNumber | |
| Description | User's cell phone number |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | varchar(15) |
| Length | 15 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:24 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

|  |  |
| --- | --- |
| Password | |
| Description | encrypted password |
| Default Value | '' |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | varchar(50) |
| Length | 50 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:24 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

|  |  |
| --- | --- |
| Notes | |
| Description | Notes on user |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | varchar(1000) |
| Length | 1000 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:24 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

|  |  |
| --- | --- |
| SecurityQuestion | |
| Description | Security questions for forgotten password |
| Default Value | '' |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | varchar(255) |
| Length | 255 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:24 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

|  |  |
| --- | --- |
| SecurityAnswer | |
| Description | security question answer for forgotten password |
| Default Value | '' |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | varchar(255) |
| Length | 255 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:24 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

|  |  |
| --- | --- |
| CourseID | |
| Description | link to course |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | true |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 6:20:34 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

|  |  |
| --- | --- |
| ProjectID | |
| Description | ID of project user is assigned to if type is student |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | true |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 7:07:54 PM | | Last Modified | Dec 13, 2015 2:09:39 PM | |

|  |  |
| --- | --- |
| IsActive | |
| Description | flag for deactivating user  0 - Not Active User  1 - Active user |
| Default Value | 0 |
| Type | tinyint |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | tinyint(3) unsigned |
| Length | 0 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:24 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

|  |  |
| --- | --- |
| LoginReties | |
| Description | Number of tries on last attempt to login.... |
| Type | tinyint |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | tinyint(4) |
| Length | 0 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:24 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

|  |  |
| --- | --- |
| NextPasswordChangeDate | |
| Description | date when password must be changed |
| Type | date |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | date |
| Length | 0 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:24 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

|  |  |
| --- | --- |
| LastLoginDate | |
| Description | date of last login |
| Type | datetime |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | datetime |
| Length | 0 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:24 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

|  |  |
| --- | --- |
| LastUpdatedBy | |
| Description | who made last update |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:25 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

|  |  |
| --- | --- |
| LastUpdateDate | |
| Description | date of last update |
| Type | datetime |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | datetime |
| Length | 0 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

|  |  |
| --- | --- |
| ArchiveFlag | |
| Description | Set true (not zero) when user account has been archived otherwise false (zero) |
| Type | bit |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 1 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 6:23:44 PM | | Last Modified | Dec 13, 2015 2:09:39 PM | |

#### Data

| ID | UserAccount | UserType | FirstName | LastName | OtherName | EmailAddress | PhoneNumber | CellPhoneNumber | Password | Notes | SecurityQuestion | SecurityAnswer | CourseID | ProjectID | IsActive | LoginReties | NextPasswordChangeDate | LastLoginDate | LastUpdatedBy | LastUpdateDate | ArchiveFlag |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | JJones222 | S | Jessica | Jones | (NULL) | JJones@CSUMB.edu | (831) 222-2222 | (831) 222-2221 | SHA1('password') |  | Greatest Superhero | myself | 2 | 2 | 1 | (NULL) | (NULL) | (NULL) | (NULL) | (NULL) | (NULL) |
| 1 | tmcgee1111 | Z | Tim | McGee | Probie | Tmcgee@CSUMB.edu | (831) 111-1111 | (831) 111-1112 | SHA1('password') | (NULL) | '' | '' | (NULL) | (NULL) | 1 | (NULL) | (NULL) | (NULL) | (NULL) | (NULL) | (NULL) |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | NFurry9999 | A | Nick | Furry |  | NFurry@CSUMB.edu | (831) 999-9999 | (831) 999-9991 | SHA1('password') | (NULL) | '' | '' | (NULL) | (NULL) | 1 | (NULL) | (NULL) | (NULL) | (NULL) | (NULL) | (NULL) |
| 7 | TStark7777 | I | Tony | Stark | Ironman | TStark@CSUMB.edu | (831) 777-7777 | (831) 777-7771 | SHA1('password') | (NULL) | '' | '' | (NULL) | (NULL) | 1 | (NULL) | (NULL) | (NULL) | (NULL) | (NULL) | (NULL) |
| 6 | SRogers6666 | A | Steve | Rogers | Captain America | SRgoers@CSUMB.edu | (831) 666-6661 | (831) 666-6662 | SHA1('password') | (NULL) | '' | '' | (NULL) | (NULL) | 1 | (NULL) | (NULL) | (NULL) | (NULL) | (NULL) | (NULL) |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | PPaker5555 | S | Peter | Parker | Spiderman | PParker@CSUMB.edu | (831) 555-5555 | (831) 555-5551 | SHA1('password') | (NULL) | '' | '' | 1 | 1 | 1 | (NULL) | (NULL) | (NULL) | (NULL) | (NULL) | (NULL) |

#### Relationships

|  |  |
| --- | --- |
| fk\_timesheet\_user : Relationship | |
| To | Image1.png [timesheet](#o7Lb_oqAUICypAi5) |
| Identifying | false |
| Subtype | false |
| On Delete | Cascade |
| On Update | Cascade |
| To Multiplicity | 0..\* |
| From Multiplicity | 1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:25 PM | | Last Modified | Dec 13, 2015 1:29:21 PM | |

|  |  |
| --- | --- |
| fk\_userprojects : Relationship | |
| To | Image1.png [userprojects](#hAl6uYqAUICypAj3) |
| Identifying | false |
| Subtype | false |
| On Delete | Cascade |
| On Update | Cascade |
| To Multiplicity | 0..\* |
| From Multiplicity | 1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 13, 2015 2:10:09 PM | | Last Modified | Dec 13, 2015 2:39:41 PM | |
| fk\_usercourse : Relationship | |
| From | Image1.png [course](#eRUomYqAUICypAbf) |
| Identifying | false |
| Subtype | false |
| On Delete | Set null |
| On Update | Cascade |
| To Multiplicity | 0..\* |
| From Multiplicity | 0..1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 7:02:55 PM | | Last Modified | Dec 13, 2015 3:23:49 PM | |

|  |  |
| --- | --- |
| fk\_project\_users : Relationship | |
| From | Image1.png [project](#Ln5s_oqAUICypAZu) |
| Identifying | false |
| Subtype | false |
| On Delete | Set null |
| On Update | Cascade |
| To Multiplicity | 0..\* |
| From Multiplicity | 0..1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 7:18:58 PM | | Last Modified | Dec 13, 2015 1:29:21 PM | |

|  |  |
| --- | --- |
| fk\_usertype : Relationship | |
| From | Image1.png [usertypes](#hp1u.YqAUICypAzK) |
| Identifying | false |
| Subtype | false |
| On Delete | Set null |
| On Update | Cascade |
| To Multiplicity | 0..\* |
| From Multiplicity | 1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 14, 2015 12:06:57 AM | | Last Modified | Dec 14, 2015 12:11:54 AM | |

### Image2.png project

|  |  |
| --- | --- |
| Name | Value |
| Description | Service Learning Projects. Linked to course via course id |
| Data Model | Physical |
| Records | N/A |
| Primary Key Clustered | Unspecified |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:22 PM | | Last Modified | Dec 17, 2015 9:56:22 PM | |

#### Columns Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | DataType | Constraints | Nullable | Description |
| ID | int(11) | PKUnique | No | Primary key |
| Title | varchar(255) |  | No | Name of project |
| Description | varchar(500) |  | Yes | detailed description of project |
| StartDate | datetime |  | Yes | project start date |
| EndDate | datetime |  | Yes | project end date |
| CourseID | int(11) | FK ([course.ID](#eRUomYqAUICypAbg)) | No | links project to course |
| Notes | varchar(500) |  | Yes |  |
| LastUpdatedBy | int(11) |  | Yes | who updated this record last |
| LastUpdateDate | datetime |  | Yes | date of last update |
| ArchiveFlag | bit(1) |  | Yes | Set true (not zero) when project has been archived otherwise false (zero) |

#### Columns

|  |  |
| --- | --- |
| ID | |
| Description | Primary key |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | true |
| Primary Key | true |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Id Generator | identity |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:56:22 PM | |

|  |  |
| --- | --- |
| Title | |
| Description | Name of project |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | varchar(255) |
| Length | 255 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:56:22 PM | |

|  |  |
| --- | --- |
| Description | |
| Description | detailed description of project |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | varchar(500) |
| Length | 500 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:56:22 PM | |

|  |  |
| --- | --- |
| StartDate | |
| Description | project start date |
| Type | datetime |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | datetime |
| Length | 0 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:56:22 PM | |

|  |  |
| --- | --- |
| EndDate | |
| Description | project end date |
| Type | datetime |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | datetime |
| Length | 0 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:56:22 PM | |

|  |  |
| --- | --- |
| CourseID | |
| Description | links project to course |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 6:20:34 PM | | Last Modified | Dec 17, 2015 9:56:22 PM | |

|  |  |
| --- | --- |
| Notes | |
| Default Value | '' |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | varchar(500) |
| Length | 500 |
| Scale | 0 |
| Id Generator | native |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 12, 2015 6:31:44 PM | |

|  |  |
| --- | --- |
| LastUpdatedBy | |
| Description | who updated this record last |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:25 PM | | Last Modified | Dec 17, 2015 9:56:22 PM | |

|  |  |
| --- | --- |
| LastUpdateDate | |
| Description | date of last update |
| Type | datetime |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | datetime |
| Length | 0 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:56:22 PM | |

|  |  |
| --- | --- |
| ArchiveFlag | |
| Description | Set true (not zero) when project has been archived otherwise false (zero) |
| Type | bit |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 1 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 6:23:44 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

#### Data

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Title | Description | StartDate | EndDate | CourseID | Notes | LastUpdatedBy | LastUpdateDate | ArchiveFlag |
| 1 | Seaside Elementary School Network | Upgrade of Netowrk | 2015-11-15 | 2015-12-25 | 1 | '' | (NULL) | (NULL) | (NULL) |
| 2 | Monterey County Office | IT Assistance to Monterey County | 2015-11-15 | 2015-12-25 | 2 | '' | (NULL) | (NULL) | (NULL) |

#### Indices

|  |  |
| --- | --- |
| project | |
| Columns | |  |  | | --- | --- | | Title | | | Description | Name of project | | Type | varchar | | Sequence Allocation Size | -1 | | Nullable | false | | Unique | false | | Primary Key | false | | Index | false | | Type Name | varchar(255) | | Length | 255 | | Scale | 0 | | Generated | Unspecified | | Sync To Attribute | Yes | | Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:56:22 PM | | |
| Unique | true |
| Bitmap | false |
| Fulltext | false |
| Index Name Pattern | {table\_name} |
| Clustered | Non-clustered |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:27 PM | | Last Modified | Dec 12, 2015 6:31:44 PM | |

#### Relationships

|  |  |
| --- | --- |
| fk\_project\_approvers : Relationship | |
| To | Image1.png [projectapprovers](#3EyC_oqAUICypAc1) |
| Identifying | false |
| Subtype | false |
| On Delete | Cascade |
| On Update | Cascade |
| To Multiplicity | 0..\* |
| From Multiplicity | 1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 7:16:15 PM | | Last Modified | Dec 13, 2015 1:39:22 PM | |

|  |  |
| --- | --- |
| fk\_project\_users : Relationship | |
| To | Image1.png [useraccount](#m2Ws_oqAUICypAZb) |
| Identifying | false |
| Subtype | false |
| On Delete | Set null |
| On Update | Cascade |
| To Multiplicity | 0..\* |
| From Multiplicity | 0..1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 7:18:58 PM | | Last Modified | Dec 13, 2015 1:29:21 PM | |

|  |  |
| --- | --- |
| fk\_projecttimesheets : Relationship | |
| To | Image1.png [timesheet](#o7Lb_oqAUICypAi5) |
| Identifying | false |
| Subtype | false |
| On Delete | Set null |
| On Update | Cascade |
| To Multiplicity | 0..\* |
| From Multiplicity | 1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 13, 2015 1:37:12 PM | | Last Modified | Dec 13, 2015 1:39:22 PM | |

|  |  |
| --- | --- |
| fk\_projectusers : Relationship | |
| To | Image1.png [userprojects](#hAl6uYqAUICypAj3) |
| Identifying | false |
| Subtype | false |
| On Delete | Cascade |
| On Update | Cascade |
| To Multiplicity | 0..\* |
| From Multiplicity | 1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 13, 2015 2:26:24 PM | | Last Modified | Dec 13, 2015 2:39:41 PM | |
| fk\_courseprojects : Relationship | |
| From | Image1.png [course](#eRUomYqAUICypAbf) |
| Identifying | false |
| Subtype | false |
| On Delete | Cascade |
| On Update | Cascade |
| To Multiplicity | 0..\* |
| From Multiplicity | 1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 7:04:45 PM | | Last Modified | Dec 13, 2015 1:29:21 PM | |

### Image2.png course

|  |  |
| --- | --- |
| Name | Value |
| Description | Service Learning Courses |
| Data Model | Physical |
| Records | N/A |
| Primary Key Constraint Name | ID |
| Primary Key Clustered | Unspecified |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 6:04:06 PM | | Last Modified | Dec 17, 2015 9:57:59 PM | |

#### Columns Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | DataType | Constraints | Nullable | Description |
| ID | int(11) | PKUnique | No | primary key |
| Name | varchar(255) |  | No | Name of course |
| CourseNumber | varchar(50) |  | No | course number |
| StartDate | date |  | No | start date of course |
| EndDate | date |  | No | end date of course |
| InstructorID | int(11) |  | Yes | links to instructor |
| ArchiveFlag | bit(1) |  | Yes | Set true (not zero) when course has been archived otherwise false (zero) |

#### Columns

|  |  |
| --- | --- |
| ID | |
| Description | primary key |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | true |
| Primary Key | true |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Id Generator | identity |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 6:04:41 PM | | Last Modified | Dec 17, 2015 9:57:59 PM | |

|  |  |
| --- | --- |
| Name | |
| Description | Name of course |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 255 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 6:04:47 PM | | Last Modified | Dec 17, 2015 9:57:59 PM | |

|  |  |
| --- | --- |
| CourseNumber | |
| Description | course number |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 50 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 6:06:05 PM | | Last Modified | Dec 17, 2015 9:57:59 PM | |

|  |  |
| --- | --- |
| StartDate | |
| Description | start date of course |
| Type | date |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 0 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 6:06:44 PM | | Last Modified | Dec 17, 2015 9:57:59 PM | |

|  |  |
| --- | --- |
| EndDate | |
| Description | end date of course |
| Type | date |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 0 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 6:07:23 PM | | Last Modified | Dec 17, 2015 9:57:59 PM | |

|  |  |
| --- | --- |
| InstructorID | |
| Description | links to instructor |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 6:07:46 PM | | Last Modified | Dec 17, 2015 9:57:59 PM | |

|  |  |
| --- | --- |
| ArchiveFlag | |
| Description | Set true (not zero) when course has been archived otherwise false (zero) |
| Type | bit |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 1 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 6:08:15 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

#### Data

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Name | CourseNumber | StartDate | EndDate | InstructorID | ArchiveFlag |
| 1 | Technology Tutoring | CST361s | 2015-11-01 | 2015-12-31 | (NULL) | (NULL) |
| 2 | Service Learning | CST361f | 2015-11-01 | 2015-12-31 | (NULL) | (NULL) |

#### Relationships

|  |  |
| --- | --- |
| fk\_usercourse : Relationship | |
| To | Image1.png [useraccount](#m2Ws_oqAUICypAZb) |
| Identifying | false |
| Subtype | false |
| On Delete | Set null |
| On Update | Cascade |
| To Multiplicity | 0..\* |
| From Multiplicity | 0..1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 7:02:55 PM | | Last Modified | Dec 13, 2015 3:23:49 PM | |

|  |  |
| --- | --- |
| fk\_courseprojects : Relationship | |
| To | Image1.png [project](#Ln5s_oqAUICypAZu) |
| Identifying | false |
| Subtype | false |
| On Delete | Cascade |
| On Update | Cascade |
| To Multiplicity | 0..\* |
| From Multiplicity | 1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 7:04:45 PM | | Last Modified | Dec 13, 2015 1:29:21 PM | |

### Image2.png usertypes

|  |  |
| --- | --- |
| Name | Value |
| Description | Contains valid values for usertypes:  A - Approver  I - Instructor  S - Student  Z - Admin |
| Data Model | Physical |
| Records | N/A |
| Primary Key Clustered | Unspecified |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 13, 2015 11:48:56 PM | | Last Modified | Dec 17, 2015 9:36:20 PM | |

#### Columns Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | DataType | Constraints | Nullable | Description |
| TypeID | varchar(1) | PKUnique | No |  |
| TypeValue | varchar(100) |  | No |  |

#### Columns

|  |  |
| --- | --- |
| TypeID | |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | true |
| Primary Key | true |
| Index | false |
| Length | 1 |
| Scale | 0 |
| Id Generator | assigned |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 13, 2015 11:49:08 PM | | Last Modified | Dec 14, 2015 12:11:54 AM | |

|  |  |
| --- | --- |
| TypeValue | |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 100 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 13, 2015 11:49:11 PM | | Last Modified | Dec 14, 2015 12:11:54 AM | |

#### Data

|  |  |
| --- | --- |
| TypeID | TypeValue |
| S | Student |
| A | Approver |
| Z | Admin |
| I | Instructor |

#### Relationships

|  |  |
| --- | --- |
| fk\_usertype : Relationship | |
| To | Image1.png [useraccount](#m2Ws_oqAUICypAZb) |
| Identifying | false |
| Subtype | false |
| On Delete | Set null |
| On Update | Cascade |
| To Multiplicity | 0..\* |
| From Multiplicity | 1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 14, 2015 12:06:57 AM | | Last Modified | Dec 14, 2015 12:11:54 AM | |

### Image2.png userprojects

|  |  |
| --- | --- |
| Name | Value |
| Description | Links users to projects. User can be on multiple projects and projects can have multiple users |
| Data Model | Physical |
| Records | N/A |
| Primary Key Clustered | Unspecified |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 13, 2015 2:03:18 PM | | Last Modified | Dec 17, 2015 9:56:22 PM | |

#### Columns Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | DataType | Constraints | Nullable | Description |
| ID | int(11) | PKUnique | No | primary key |
| UserID | int(11) | FK ([useraccount.ID](#BoO0_oqAUICypAXq)) | No | links to user account |
| ProjectID | int(11) | FK ([project.ID](#tr20_oqAUICypAWs)) | No | links to project |

#### Columns

|  |  |
| --- | --- |
| ID | |
| Description | primary key |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | true |
| Primary Key | true |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Id Generator | identity |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 13, 2015 2:04:00 PM | | Last Modified | Dec 17, 2015 9:56:22 PM | |

|  |  |
| --- | --- |
| UserID | |
| Description | links to user account |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 13, 2015 2:04:05 PM | | Last Modified | Dec 17, 2015 9:56:22 PM | |

|  |  |
| --- | --- |
| ProjectID | |
| Description | links to project |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 13, 2015 2:04:19 PM | | Last Modified | Dec 17, 2015 9:56:22 PM | |

#### Data

|  |  |  |
| --- | --- | --- |
| ID | UserID | ProjectID |
| 2 | 2 | 2 |
| 1 | 5 | 1 |
| 3 | (NULL) | (NULL) |

#### Relationships

|  |  |
| --- | --- |
| fk\_userprojects : Relationship | |
| From | Image1.png [useraccount](#m2Ws_oqAUICypAZb) |
| Identifying | false |
| Subtype | false |
| On Delete | Cascade |
| On Update | Cascade |
| To Multiplicity | 0..\* |
| From Multiplicity | 1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 13, 2015 2:10:09 PM | | Last Modified | Dec 13, 2015 2:39:41 PM | |

|  |  |
| --- | --- |
| fk\_projectusers : Relationship | |
| From | Image1.png [project](#Ln5s_oqAUICypAZu) |
| Identifying | false |
| Subtype | false |
| On Delete | Cascade |
| On Update | Cascade |
| To Multiplicity | 0..\* |
| From Multiplicity | 1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 13, 2015 2:26:24 PM | | Last Modified | Dec 13, 2015 2:39:41 PM | |

### Image2.png projectapprovers

|  |  |
| --- | --- |
| Name | Value |
| Description | Service Learning TimeSheet Approvers for Projects. Linked to Project via project id |
| Data Model | Physical |
| Records | N/A |
| Primary Key Clustered | Unspecified |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:22 PM | | Last Modified | Dec 17, 2015 9:56:22 PM | |

#### Columns Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | DataType | Constraints | Nullable | Description |
| ID | int(11) | PKUnique | No | primary key |
| ProjectID | int(11) | FK ([project.ID](#tr20_oqAUICypAWs)) | No | links to project |
| ApproverID | int(11) |  | No | links to user account that can approve timesheet |
| Notes | varchar(255) |  | Yes |  |
| LastUpdatedBy | int(11) |  | Yes | user who last updated this record |
| LastUpdateDate | datetime |  | Yes | date of last update |

#### Columns

|  |  |
| --- | --- |
| ID | |
| Description | primary key |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | true |
| Primary Key | true |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Id Generator | identity |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:22 PM | | Last Modified | Dec 17, 2015 9:56:22 PM | |

|  |  |
| --- | --- |
| ProjectID | |
| Description | links to project |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:24 PM | | Last Modified | Dec 17, 2015 9:56:22 PM | |

|  |  |
| --- | --- |
| ApproverID | |
| Description | links to user account that can approve timesheet |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:55:11 PM | | Last Modified | Dec 17, 2015 9:56:22 PM | |

|  |  |
| --- | --- |
| Notes | |
| Default Value | '' |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | varchar(255) |
| Length | 255 |
| Scale | 0 |
| Id Generator | native |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:22 PM | | Last Modified | Dec 12, 2015 6:21:43 PM | |

|  |  |
| --- | --- |
| LastUpdatedBy | |
| Description | user who last updated this record |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:25 PM | | Last Modified | Dec 17, 2015 9:56:22 PM | |

|  |  |
| --- | --- |
| LastUpdateDate | |
| Description | date of last update |
| Type | datetime |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | datetime |
| Length | 0 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:56:22 PM | |

#### Data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | ProjectID | ApproverID | Notes | LastUpdatedBy | LastUpdateDate |
| 1 | 1 | 3 | (NULL) | (NULL) | (NULL) |
| 2 | 2 | 2 |  | (NULL) | (NULL) |
| 3 | (NULL) | (NULL) | (NULL) | (NULL) | (NULL) |

#### Relationships

|  |  |
| --- | --- |
| fk\_project\_approvers : Relationship | |
| From | Image1.png [project](#Ln5s_oqAUICypAZu) |
| Identifying | false |
| Subtype | false |
| On Delete | Cascade |
| On Update | Cascade |
| To Multiplicity | 0..\* |
| From Multiplicity | 1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 7:16:15 PM | | Last Modified | Dec 13, 2015 1:39:22 PM | |

### Image2.png timesheet

|  |  |
| --- | --- |
| Name | Value |
| Description | Service Learning TimesSheets for students |
| Data Model | Physical |
| Records | N/A |
| Primary Key Clustered | Unspecified |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

#### Columns Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | DataType | Constraints | Nullable | Description |
| ID | int(11) | PKUnique | No | Primary Key |
| UserID | int(11) | FK ([useraccount.ID](#BoO0_oqAUICypAXq)) | No | Links to user |
| projectID | int(11) | FK ([project.ID](#tr20_oqAUICypAWs)) | No | Links to Project |
| WeekEndingDate | date |  | No | Ending date of the week for timesheet |
| Status | varchar(1) | FK ([statustypes.StatusID](#vc.jFYqAUICypAd7)) | No | Links to valid status values  N - New TimeSheet but not saved by user  S - Submitted TimeSheet  A - Approved TimeSheet  R - Rejected TimeSheet |
| DateCreated | datetime |  | No | Date timesheet was created |
| LastUpdatedBy | int(11) |  | Yes | Who made the last update |
| LastUpdateDate | datetime |  | Yes | date of last update |
| ArchiveFlag | bit(1) |  | Yes | Set true (not zero) when timesheet has been archived otherwise false (zero) |

#### Columns

|  |  |
| --- | --- |
| ID | |
| Description | Primary Key |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | true |
| Primary Key | true |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Id Generator | identity |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

|  |  |
| --- | --- |
| UserID | |
| Description | Links to user |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:26 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

|  |  |
| --- | --- |
| projectID | |
| Description | Links to Project |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 13, 2015 1:37:12 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

|  |  |
| --- | --- |
| WeekEndingDate | |
| Description | Ending date of the week for timesheet |
| Type | date |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | date |
| Length | 0 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

|  |  |
| --- | --- |
| Status | |
| Description | Links to valid status values  N - New TimeSheet but not saved by user  S - Submitted TimeSheet  A - Approved TimeSheet  R - Rejected TimeSheet |
| Default Value | 0 |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 1 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

|  |  |
| --- | --- |
| DateCreated | |
| Description | Date timesheet was created |
| Type | datetime |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | datetime |
| Length | 0 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

|  |  |
| --- | --- |
| LastUpdatedBy | |
| Description | Who made the last update |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:25 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

|  |  |
| --- | --- |
| LastUpdateDate | |
| Description | date of last update |
| Type | datetime |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | datetime |
| Length | 0 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

|  |  |
| --- | --- |
| ArchiveFlag | |
| Description | Set true (not zero) when timesheet has been archived otherwise false (zero) |
| Type | bit |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 1 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 6:23:44 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

#### Indices

|  |  |
| --- | --- |
| timesheet | |
| Columns | |  |  | | --- | --- | | Status | | | Description | Links to valid status values  N - New TimeSheet but not saved by user  S - Submitted TimeSheet  A - Approved TimeSheet  R - Rejected TimeSheet | | Default Value | 0 | | Type | varchar | | Sequence Allocation Size | -1 | | Nullable | false | | Unique | false | | Primary Key | false | | Index | false | | Length | 1 | | Scale | 0 | | Generated | Unspecified | | Sync To Attribute | Yes | | Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | | |
| Unique | false |
| Bitmap | false |
| Fulltext | false |
| Index Name Pattern | {table\_name} |
| Clustered | Non-clustered |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:27 PM | | Last Modified | Dec 13, 2015 1:39:22 PM | |

#### Relationships

|  |  |
| --- | --- |
| fk\_timesheetdetail\_timesheet : Relationship | |
| To | Image1.png [timesheetdetail](#3ki7_oqAUICypAj5) |
| Identifying | false |
| Subtype | false |
| On Delete | Cascade |
| On Update | Cascade |
| To Multiplicity | 0..\* |
| From Multiplicity | 1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:26 PM | | Last Modified | Dec 13, 2015 1:29:21 PM | |

|  |  |
| --- | --- |
| fk\_timesheet\_action : Relationship | |
| To | Image1.png [timesheetaction](#YbyimYqAUICypAk4) |
| Identifying | false |
| Subtype | false |
| On Delete | Cascade |
| On Update | Cascade |
| To Multiplicity | 0..1 |
| From Multiplicity | 1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 7:11:46 PM | | Last Modified | Dec 13, 2015 1:29:21 PM | |
| fk\_timesheet\_user : Relationship | |
| From | Image1.png [useraccount](#m2Ws_oqAUICypAZb) |
| Identifying | false |
| Subtype | false |
| On Delete | Cascade |
| On Update | Cascade |
| To Multiplicity | 0..\* |
| From Multiplicity | 1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:25 PM | | Last Modified | Dec 13, 2015 1:29:21 PM | |

|  |  |
| --- | --- |
| fk\_projecttimesheets : Relationship | |
| From | Image1.png [project](#Ln5s_oqAUICypAZu) |
| Identifying | false |
| Subtype | false |
| On Delete | Set null |
| On Update | Cascade |
| To Multiplicity | 0..\* |
| From Multiplicity | 1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 13, 2015 1:37:12 PM | | Last Modified | Dec 13, 2015 1:39:22 PM | |

|  |  |
| --- | --- |
| fk\_statustype : Relationship | |
| From | Image1.png [statustypes](#Pc.jFYqAUICypAd6) |
| Identifying | false |
| Subtype | false |
| To Multiplicity | 0..\* |
| From Multiplicity | 1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 15, 2015 7:17:02 PM | | Last Modified | Dec 15, 2015 7:17:49 PM | |

### Image2.png timesheetdetail

|  |  |
| --- | --- |
| Name | Value |
| Description | Service Learning Timesheet entry records (1 for each start and end time on timesheet) |
| Data Model | Physical |
| Records | N/A |
| Primary Key Clustered | Unspecified |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

#### Columns Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | DataType | Constraints | Nullable | Description |
| ID | int(11) | PKUnique | No | Primary key |
| TimeSheetID | int(11) | FK ([timesheet.ID](#gf20_oqAUICypAXO)) | No | link to main timesheet information |
| UserID | int(11) |  | No | link back to user of timesheet |
| WeekDate | date |  | Yes | date of the week for timesheet detail record |
| WeekDayNumber | tinyint |  | Yes | weekday number for timesheet information  1 - Sunday  2 - Monday  3 - Tuesday  4 - Wednesday  5 -Thursday  6 - Friday  7 - Saturday |
| SeqNumber | int(11) |  | Yes | Sequence Number used to place on the screen in correct order. |
| Hours | decimal(10) |  | Yes | Hours for time entry |
| StartTime | time |  | Yes | Start time for time entry |
| EndTime | time |  | Yes | End time for time entry |

#### Columns

|  |  |
| --- | --- |
| ID | |
| Description | Primary key |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | true |
| Primary Key | true |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Id Generator | identity |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

|  |  |
| --- | --- |
| TimeSheetID | |
| Description | link to main timesheet information |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:26 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

|  |  |
| --- | --- |
| UserID | |
| Description | link back to user of timesheet |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:27 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

|  |  |
| --- | --- |
| WeekDate | |
| Description | date of the week for timesheet detail record |
| Type | date |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | date |
| Length | 0 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

|  |  |
| --- | --- |
| WeekDayNumber | |
| Description | weekday number for timesheet information  1 - Sunday  2 - Monday  3 - Tuesday  4 - Wednesday  5 -Thursday  6 - Friday  7 - Saturday |
| Type | tinyint |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 0 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 6:34:09 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

|  |  |
| --- | --- |
| SeqNumber | |
| Description | Sequence Number used to place on the screen in correct order. |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 8:35:29 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

|  |  |
| --- | --- |
| Hours | |
| Description | Hours for time entry |
| Type | decimal |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | decimal(10,0) unsigned |
| Length | 10 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

|  |  |
| --- | --- |
| StartTime | |
| Description | Start time for time entry |
| Type | time |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 0 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 8:35:04 PM | | Last Modified | Dec 17, 2015 9:46:21 PM | |

|  |  |
| --- | --- |
| EndTime | |
| Description | End time for time entry |
| Type | time |
| Sequence Allocation Size | -1 |
| Nullable | true |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 0 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 8:35:24 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

#### Relationships

|  |  |
| --- | --- |
| fk\_timesheetdetail\_timesheet : Relationship | |
| From | Image1.png [timesheet](#o7Lb_oqAUICypAi5) |
| Identifying | false |
| Subtype | false |
| On Delete | Cascade |
| On Update | Cascade |
| To Multiplicity | 0..\* |
| From Multiplicity | 1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:26 PM | | Last Modified | Dec 13, 2015 1:29:21 PM | |

### Image2.png timesheetaction

|  |  |
| --- | --- |
| Name | Value |
| Description | Service Learning TimeSheet Actions. Contains list of actions that require response.  TimeSheet submit generates a record that requires approve or reject  TimeSheet reject generates a record that requires resubmit |
| Data Model | Physical |
| Records | N/A |
| Primary Key Clustered | Unspecified |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 6:57:10 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

#### Columns Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | DataType | Constraints | Nullable | Description |
| ID | int(11) | PKUnique | No | Primary key |
| TimeSheetID | int(11) | FK ([timesheet.ID](#gf20_oqAUICypAXO)) | No | links to timesheet record |
| StudentID | int(11) |  | No | Links to student user record |
| ApproverID | int(11) |  | No | links to approver user record |
| ProjectID | int(11) |  | No | links to project record |
| CourseID | int(11) |  | No | links to course record |
| ActionBy | int(11) |  | No | links to user that performed the last action that needed response |
| ActionDate | datetime |  | No | Date and time of action |
| ActionType | tinyint |  | No | Values  2 - Submitted TimeSheet  3 - Approved TimeSheet  4 - Rejected TimeSheet |

#### Columns

|  |  |
| --- | --- |
| ID | |
| Description | Primary key |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | true |
| Primary Key | true |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Id Generator | identity |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 6:58:11 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

|  |  |
| --- | --- |
| TimeSheetID | |
| Description | links to timesheet record |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 6:58:45 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

|  |  |
| --- | --- |
| StudentID | |
| Description | Links to student user record |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 6:59:18 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

|  |  |
| --- | --- |
| ApproverID | |
| Description | links to approver user record |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 6:59:55 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

|  |  |
| --- | --- |
| ProjectID | |
| Description | links to project record |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 7:00:52 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

|  |  |
| --- | --- |
| CourseID | |
| Description | links to course record |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 7:02:11 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

|  |  |
| --- | --- |
| ActionBy | |
| Description | links to user that performed the last action that needed response |
| Type | int |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 11 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:25 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

|  |  |
| --- | --- |
| ActionDate | |
| Description | Date and time of action |
| Type | datetime |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Type Name | datetime |
| Length | 0 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Nov 7, 2015 5:21:23 PM | | Last Modified | Dec 17, 2015 9:51:44 PM | |

|  |  |
| --- | --- |
| ActionType | |
| Description | Values  2 - Submitted TimeSheet  3 - Approved TimeSheet  4 - Rejected TimeSheet |
| Type | tinyint |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 0 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 7:23:19 PM | | Last Modified | Dec 13, 2015 2:49:42 PM | |

#### Relationships

|  |  |
| --- | --- |
| fk\_timesheet\_action : Relationship | |
| From | Image1.png [timesheet](#o7Lb_oqAUICypAi5) |
| Identifying | false |
| Subtype | false |
| On Delete | Cascade |
| On Update | Cascade |
| To Multiplicity | 0..1 |
| From Multiplicity | 1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 12, 2015 7:11:46 PM | | Last Modified | Dec 13, 2015 1:29:21 PM | |

### Image2.png statustypes

|  |  |
| --- | --- |
| Name | Value |
| Description | Contains valid values for statustypes    A - Approved Timesheet  N - New Timesheet  R - Rejected Timesheet  S - Submitted Timesheet |
| Data Model | Physical |
| Records | N/A |
| Primary Key Clustered | Unspecified |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 15, 2015 7:12:04 PM | | Last Modified | Dec 17, 2015 9:36:20 PM | |

#### Columns Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | DataType | Constraints | Nullable | Description |
| StatusID | varchar(1) | PK | No | Primary Key. Contains 1 character value |
| StatusValue | varchar(50) |  | No | Actual descriptive value |

#### Columns

|  |  |
| --- | --- |
| StatusID | |
| Description | Primary Key. Contains 1 character value |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | true |
| Index | false |
| Length | 1 |
| Scale | 0 |
| Id Generator | native |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 15, 2015 7:12:19 PM | | Last Modified | Dec 17, 2015 9:36:20 PM | |

|  |  |
| --- | --- |
| StatusValue | |
| Description | Actual descriptive value |
| Type | varchar |
| Sequence Allocation Size | -1 |
| Nullable | false |
| Unique | false |
| Primary Key | false |
| Index | false |
| Length | 50 |
| Scale | 0 |
| Generated | Unspecified |
| Sync To Attribute | Yes |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 15, 2015 7:12:39 PM | | Last Modified | Dec 17, 2015 9:36:20 PM | |

#### Data

|  |  |
| --- | --- |
| StatusID | StatusValue |
| A | Approved |
| N | New |
| R | Reject |
| S | Submitted |

#### Relationships

|  |  |
| --- | --- |
| fk\_statustype : Relationship | |
| To | Image1.png [timesheet](#o7Lb_oqAUICypAi5) |
| Identifying | false |
| Subtype | false |
| To Multiplicity | 0..\* |
| From Multiplicity | 1 |
| Sync To Association | Yes |
| Data Model | Physical |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Clarence Mitchell | | Create Date Time | Dec 15, 2015 7:17:02 PM | | Last Modified | Dec 15, 2015 7:17:49 PM | |