

# Main SJ Tables Explained

## Overview

This document will explain the key SalesJunction.com table relations. The following tables will be explained:

- CRDACCOUNT
- CRDCONT ACT
- CRDOPP
- CRDCASE
- CRDACTIVITIES
- CRDNOTE

User Defined fields are kept in secondary tables that join with their main table counterparts.

User Defined fields tables will be defined along with their primary tables:

- CRDUSERFLDS\_A
- CRDUSERFLDS\_C
- CRDUSERFLDS\_O
- CRDUSERFLDS\_T (cases)

The [second section](#) will give example T-SQL and Queries to:

- Rename an Account or merge into another
- Change all Contacts to another Account
- Reassign main ownership of an Account

## Tables Explained

Complete field [documentation](#) along with an [Entity Relationship Diagram](#) can be seen by clicking on [this link](#). This documentation is very detailed and can be used by technical database administrators. The following is a general explanation of the tables and their relations.

### CRDACCOUNT

This is the accounts table. This is the main table and most other tables relate

back to this table in some way. The AccountID field in this table is used as a key in all other tables. The AccountID field is unique in this table

The CRDUSERFLDS\_A table contains the user-defined fields. This table is always joined with CRDACCOUNT with a one-to-one relationship with AccountID and A\_AccountID. The following SQL can be used to join the two:

```
SELECT a.*,au.* FROM CRDACCOUNT a LEFT JOIN CRDUSERFLDS_A au
ON a.AccountID=au.A_AccountID
```

The record for the matching account in CRDUSERFLDS\_A is not always created when a new account is created in CRDACCOUNT. Use the LEFT SQL keyword to make sure you get all records in CRDACCOUNT. If there is no matching record in the user defined table you will have NULL value fields.

\* Pro users also should pay attention to CRDACCTUSERS. This table contains all accounts along with the authority settings for users. You can join this table when you want to apply authority filtering to users. For example if you have a specific user you would like to create a report for and you are a Pro customer. Join this table in using the AccountID and UserID and if the account record appears in the result-set then the user will have at least read authority to the account. The same hold true for all other tables that have an AccountID key in them such as CRDCONTACT and CRDOPP.

## **CRDCONTACT**

This is the contacts table. Every account can have many contacts. Every contact must have an account assigned to it. The unique key in this table is AccountID and Name with AccountID matching a valid account from CRDACCOUNT.

The CRDUSERFLDS\_C table contains the user-defined fields. This table is always joined with CRDCONTACT with a one-to-one relationship with AccountID to C\_AccountID and Name to C\_Name. The following SQL can be used to join the two:

```
SELECT c.*,cu.* FROM CRDCONTACT c LEFT JOIN CRDUSERFLDS_C cu ON
c.AccountID=cu.C_AccountID AND c.Name=cu.C_Name
```

The record for the matching contact in CRDUSERFLDS\_C is not always created when a new contact is created in CRDCONTACT. Use the LEFT SQL keyword to make sure you get all records in CRDCONTACT. If there is no matching record in the user defined table you will have NULL value fields.

## **CRDOPP**

This is the opportunities table. Every account can have many opportunities. Every opportunity must have an account assigned to it. The unique key in this table is AccountID and Name with AccountID matching a valid account from CRDACCOUNT.

The CRDUSERFLDS\_O table contains the user-defined fields. This table is always joined with CRDOPP with a one-to-one relationship with AccountID to O\_AccountID and Name to O\_Name. The following SQL can be used to join the two:

```
SELECT o.*,ou.* FROM CRDOPP o LEFT JOIN CRDUSERFLDS_O ou ON  
o.AccountID=ou.O_AccountID AND o.Name=ou.O_Name
```

The record for the matching opportunity in CRDUSERFLDS\_O is not always created when a new opportunity is created in CRDOPP. Use the LEFT SQL keyword to make sure you get all records in CRDOPP. If there is no matching record in the user defined table you will have NULL value fields.

## **CRDCASE**

This is the case table. Every account can have many cases. Every case must have an account assigned to it. The unique key in this table is AccountID and CaseRefNum. CaseRefNum is also unique in the table.

The CRDUSERFLDS\_T table contains the user-defined fields. This table is always joined with CRDCASE with a one-to-one relationship with AccountID to T\_AccountID and the CaseRefNum to T\_CaseRefNum. The following SQL can be used to join the two:

```
SELECT t.*,tu.* FROM CRDCASE t LEFT JOIN CRDUSERFLDS_T tu ON  
t.AccountID=tu.T_AccountID and t.CaseRefNum=tu.T_CaseRefNum
```

## **CRDACTIVITIES**

This table contains all the activities for accounts, contacts and opportunities. An activity must have a related AccountID from CRDACCOUNT. Activities can be assigned to contacts and opportunities. An account, contact, or opportunity may have many activities.

Since an activity can have related opportunities and contacts, the AccountID is used to relate them along with the Contact and/or Opportunity field in the table. Note that only contacts and opportunities from the same account the activity is assigned to may be related to an activity.

Since multiple users can be assigned to activities, there is a sub table to hold their entries. The CRDACTIVITIES\_USER table will contain all assigned users to an activity. The relationship is one to many from CRDACTIVITIES to CRDACTIVITIES\_USER with the joining key being ActRefNum.

The RecType field in this table contains one of the following characters:  
M=Meeting, C=call, O=other, T=todo, E=email.

The Status field will contain a C if the activity is completed, otherwise it will be blank.

For Pro users, the FollowUpID and FollowUpStep may contain data that relates to their tables.

The following SQL will return activities along with any related account, contact and opportunity records:

```
SELECT v.*,a.*,c.*,o.* FROM CRDACTIVITIES v LEFT JOIN CRDACCOUNT a
ON a.AccountID=v.AccountID LEFT JOIN CRDCONTACT c on
c.AccountID=v.AccountID and c.Name=v.Contact LEFT JOIN CRDOPP o
ON o.AccountID=v.Opportunity
```

Doing such a large join isn't recommended but does illustrate the relations with the tables. Usually you'll just want to join in one or two tables that you may want to get data from.

## **CRDNOTE**

This table contains all notes. A note can be related to an account, contact, or opportunity. All notes must be related to a valid account with a valid AccountID in the CRDACCOUNT table. The note table also contains document attachment references. The unique key for the notes table is: RECID. This field is standard unique number in all tables and is an auto incremented number created by the system.

A note or attachment must belong to an account, but can also be related to a contact or opportunity. The Type fields tells you what kind of relation exists. It will contact one of the following characters: A=Account, C=Contact, O=Opportunity. If the note is not an A type, the AccountID/Name combination serves as the key to the related table. AN example SQL to pull all notes related to a single contact is:

```
SELECT * FROM CRDNOTE WHERE AccountID='My Account' AND
Name='Contact Name' AND Type='C'
```

To identify a note from a file attachment record you can look at the Size, OriginalFilename, and Filename fields. For notes, those fields will contain 0, blank. If the size is not zero then it is a file attachment and the Description field will contain the description of the file if any.

An example SQL to pull all account notes with the related account record is:

```
SELECT n.*, a.* FROM CRDNOTE n JOIN CRDACCOUNT a ON  
a.AccountID=n.AccountID WHERE n.Type='A'
```

An example SQL to pull all contact notes with the related contact record is:

```
SELECT n.*, c.* FROM CRDNOTE n JOIN CRDCONTACT c ON  
c.AccountID=n.AccountID AND c.Name=n.Name WHERE n.Type='C'
```

## Common T-SQL and Queries

Note that renaming accounts, contacts and other fields causes filters to become invalid. If you rename fields and have users report that they are no longer getting records in their views, have them recreate the views.

**NOTE:** The database is under constant upgrade to add features for our users. Please be sure to consult the tables and their definitions when making changes like the following.

### Rename an Account

```
declare @oldacctname as varchar(30);  
declare @newacctname as varchar(30);
```

```
set @oldacctname = 'OldNameID'  
set @newacctname= 'NewNameID'
```

```
UPDATE CRDACCOUNT SET AccountID=@newacctname WHERE  
AccountID=@oldacctname
```

```
UPDATE CRDUSERFLDS_A SET A_AccountID=@newacctname WHERE  
A_AccountID=@oldacctname
```

```
UPDATE CRDOPP SET AccountID=@newacctname WHERE  
AccountID=@oldacctname
```

```
UPDATE CRDUSERFLDS_O SET O_AccountID=@newacctname WHERE  
O_AccountID=@oldacctname
```

```
UPDATE CRDCONTACT SET AccountID=@newacctname WHERE  
AccountID=@oldacctname
```

```
UPDATE CRDUSERFLDS_C SET C_AccountID=@newacctname WHERE  
C_AccountID=@oldacctname
```

```
UPDATE CRDCASE SET AccountID=@newacctname WHERE  
AccountID=@oldacctname
```

```
UPDATE CRDUSERFLDS_T SET T_AccountID=@newacctname WHERE  
T_AccountID=@oldacctname
```

```
UPDATE CRDNOTE SET AccountID=@newacctname WHERE  
AccountID=@oldacctname
```

```
UPDATE CRDACTIVITIES SET AccountID=@newacctname WHERE  
AccountID=@oldacctname
```

```
UPDATE CRDCHANGELOG SET AccountID=@newacctname WHERE  
AccountID=@oldacctname
```

```
UPDATE CRDACCTUSERS SET AccountID=@newacctname WHERE  
AccountID=@oldacctname --Pro
```

## **Merge Account Into Another**

```
declare @oldacctname as varchar(30);  
declare @newacctname as varchar(30);
```

```
set @oldacctname = 'OldNameID'  
set @newacctname = 'NewNameID'
```

```
UPDATE CRDOPP SET AccountID=@newacctname WHERE  
AccountID=@oldacctname
```

```
UPDATE CRDUSERFLDS_O SET O_AccountID=@newacctname WHERE  
O_AccountID=@oldacctname
```

```
UPDATE CRDCONTACT SET AccountID=@newacctname WHERE  
AccountID=@oldacctname
```

```
UPDATE CRDUSERFLDS_C SET C_AccountID=@newacctname WHERE  
C_AccountID=@oldacctname
```

```
UPDATE CRDCASE SET T_AccountID=@newacctname WHERE  
AccountID=@oldacctname
```

```
UPDATE CRDUSERFLDS_T SET T_AccountID=@newacctname WHERE  
T_AccountID=@oldacctname
```

```
UPDATE CRDNOTE SET AccountID=@newacctname WHERE  
AccountID=@oldacctname
```

```
UPDATE CRDACTIVITIES SET AccountID=@newacctname WHERE  
AccountID=@oldacctname
```

```
UPDATE CRDCHANGELOG SET AccountID=@newacctname WHERE  
AccountID=@oldacctname
```

```
DELETE CRDACCTUSERS WHERE AccountID=@oldacctname --Pro
```

```
DELETE CRDACCOUNT WHERE AccountID=@oldacctname
```

```
DELETE CRDUSERFLDS_A WHERE A_AccountID=@oldacctname
```

## **Change All Contacts to another Account**

```
UPDATE CRDCONTACT SET AccountID='NewAcctID' WHERE  
AccountID='OldAcctID'
```

```
UPDATE CRDUSERFLDS_C SET C_AccountID='NewAcctID' WHERE  
C_AccountID='OldAcctID'
```

```
UPDATE CRDNOTE SET AccountID='NewAcctID' WHERE  
AccountID='OldAcctID' AND Name='Contact' AND Type='C'
```

```
UPDATE CRDACTIVITIES SET AccountID='NewAcctID' WHERE  
AccountID='OldAcctID' AND Contact='Contact'
```

## **Reassign Main Ownership of an Account**

```
declare @newuser as varchar(25);  
declare @olduser as varchar(25);
```

```
set @newuser = 'New UserID'  
set @olduser = 'Old UserID'
```

```
UPDATE CRDACCOUNT SET OwnerUserID=@newuser WHERE  
OwnerUserID=@olduser
```

```
UPDATE CRDCONTACT SET OwnerUserId=@newuser WHERE  
OwnerUserID=@olduser
```

```
UPDATE CRDACTIVITIES SET CrtUserID=@newuser WHERE  
CrtUserID=@olduser
```

```
UPDATE CRDACTIVITIES_USER SET ActUserID=@newuser WHERE  
ActUserID=@olduser
```

```
UPDATE CRDOPP SET OwnerUserID=@newuser WHERE  
OwnerUSERID=@olduser
```

```
UPDATE CRDNOTE SET CrtUserID=@newuser WHERE CrtUserID=@olduser
```

```
UPDATE CRDACCTUSERS SET UserID=@newuser WHERE UserID=@olduser
```

## **Set ALL Records to a New User**

```
UPDATE CRDACCOUNT SET OwnerUserID='newuser'
```

```
UPDATE CRDCONTACT SET OwnerUserId='newuser'
```

```
UPDATE CRDACTIVITIES SET CrtUserID='newuser'
```

```
UPDATE CRDACTIVITIES_USER SET ActUserID='newuser'
```

```
UPDATE CRDOPP SET OwnerUserID='newuser'  
UPDATE CRDCASE SET AssignedUserID='newuser'
```

```
UPDATE CRDNOTE SET CrtUserID='newuser'
```

```
UPDATE CRDACCTUSERS SET UserID='newuser'
```