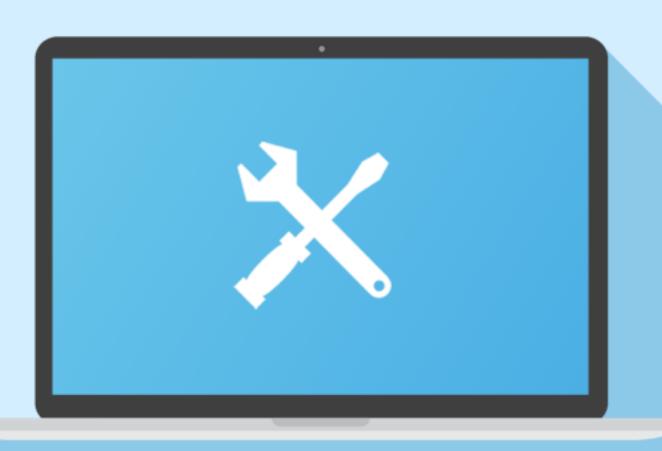


Section 5 - Tables & Fields



Course Outline

- Course Introduction
- 2 ServiceNow Overview
- Lists, Forms, & the UI
- 4 Customizations

5 Tables & Fields

- 6 User Administration
- 7 Core Applications
- 8 System Administration
- Building A Custom App

Section Outline

Table Overview

2 Major Tables

3 Data Dictionaries

4 Fields

5 Field Types

6 Unique Identifiers

7 Reference Fields

Table Relationships

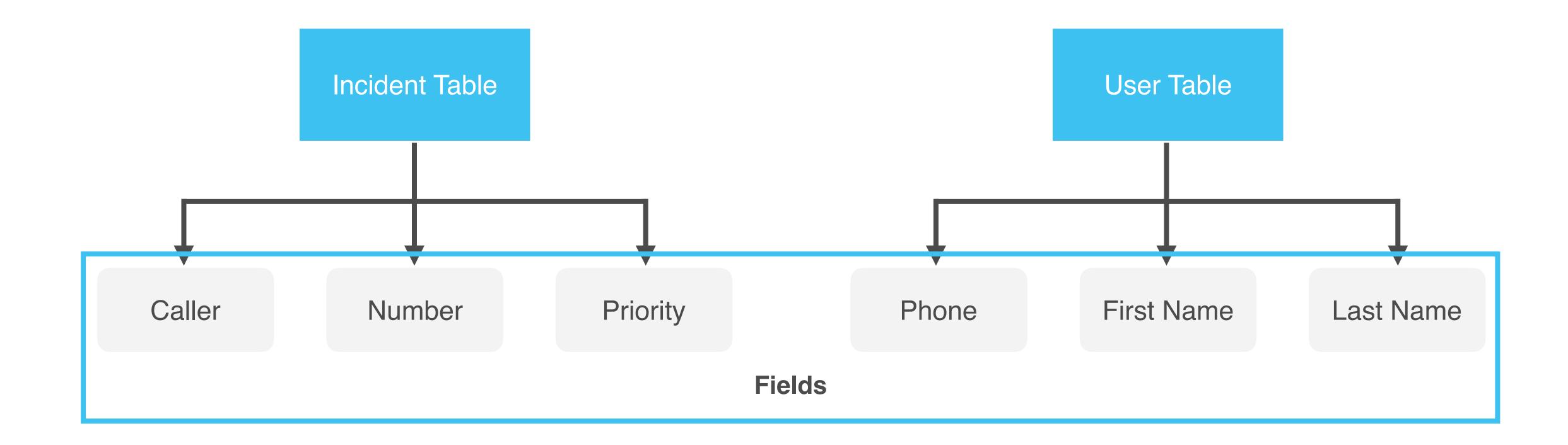
Table Management

10 Creating an App

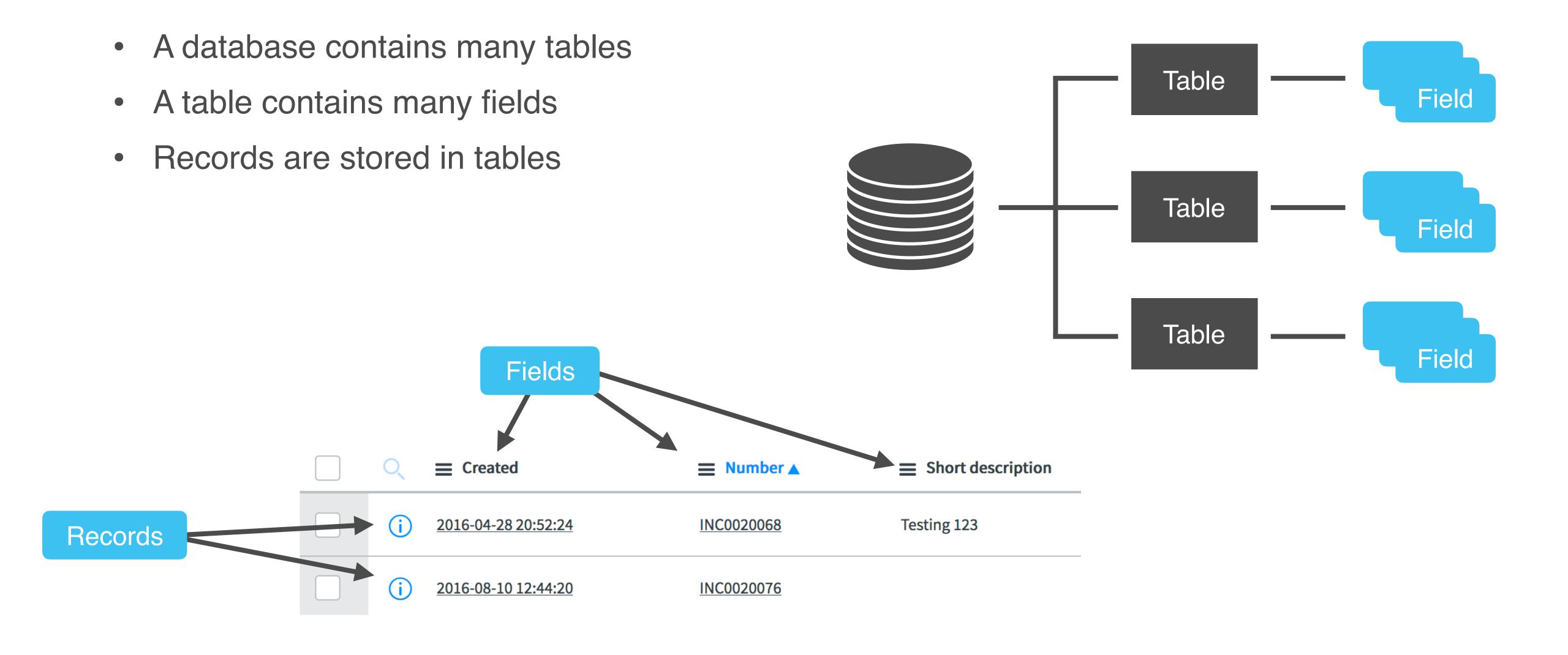
Database Table Overview

- Over 2,000 tables in base instance
- Tables have fields
- Tables may extend other tables

- Naming convention
- Create/modify tables
- Each app has 1 or many tables



The Database, Tables, & Fields



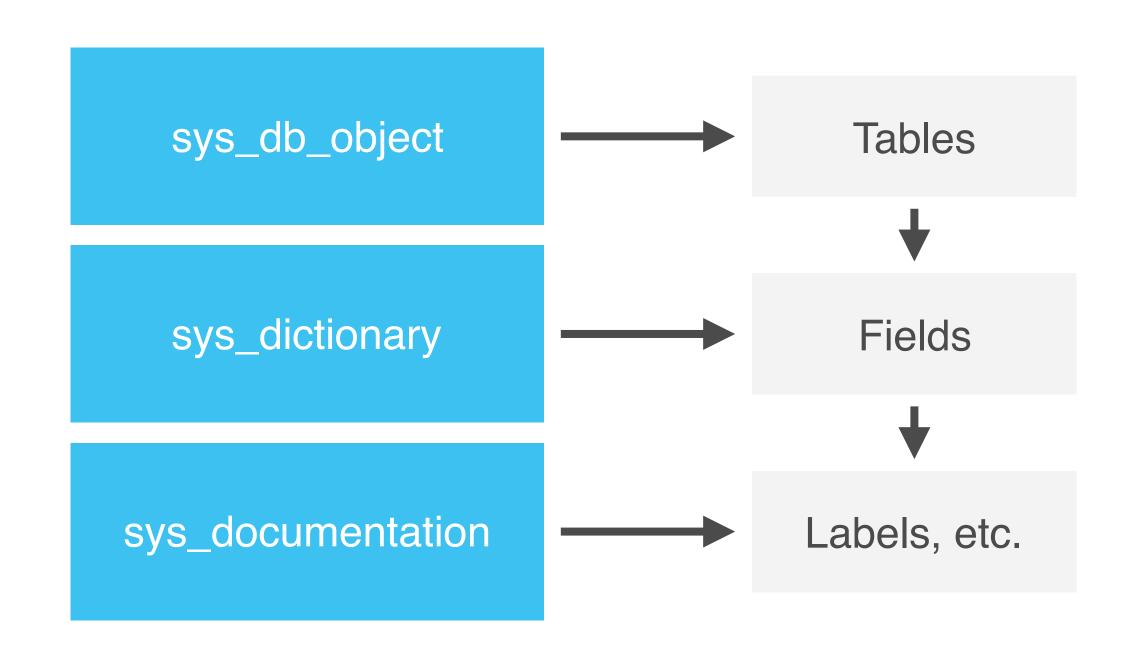
Major Tables

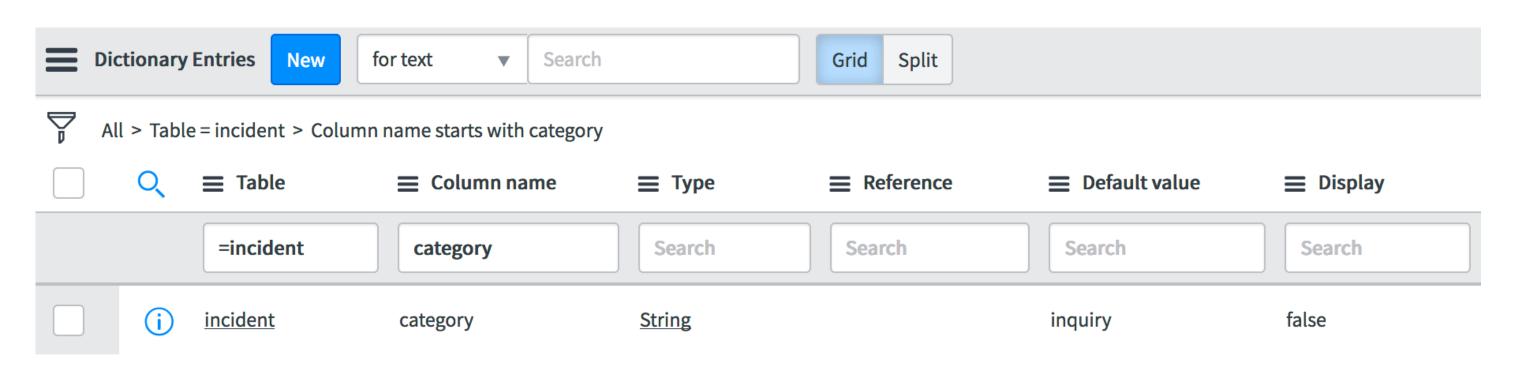
- Task [task]
- Incident [incident]
- Problem [problem]
- Change [change_request]
- User [sys_user]
- Group [sys_user_group]
- Role [sys_user_role]
- Location [cmn_location]
- Company [core_company]

- Knowledge [kb_knowledge]
- Knowledge Category [kb_category]
- Knowledge Base [kb_knowledge_base]
- Service Catalog [sc_catalog]
- Catalog Items [sc_cat_item]
- Configuration Item [cmdb_ci]
- Server CI [cmdb_ci_server]

Data Dictionary Tables

- Contain metadata about tables
- sys_db_object record represents a table
- sys_dictionary record represents a field on a table
- sys_documentation record represents a field label, etc.



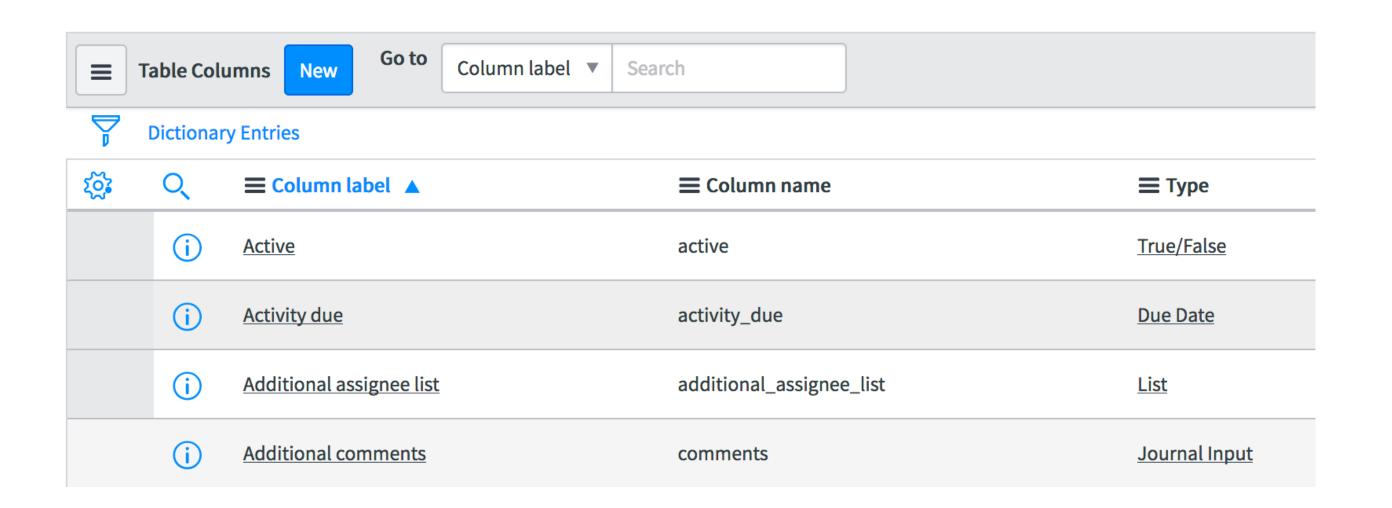


Tables & Fields

Demo

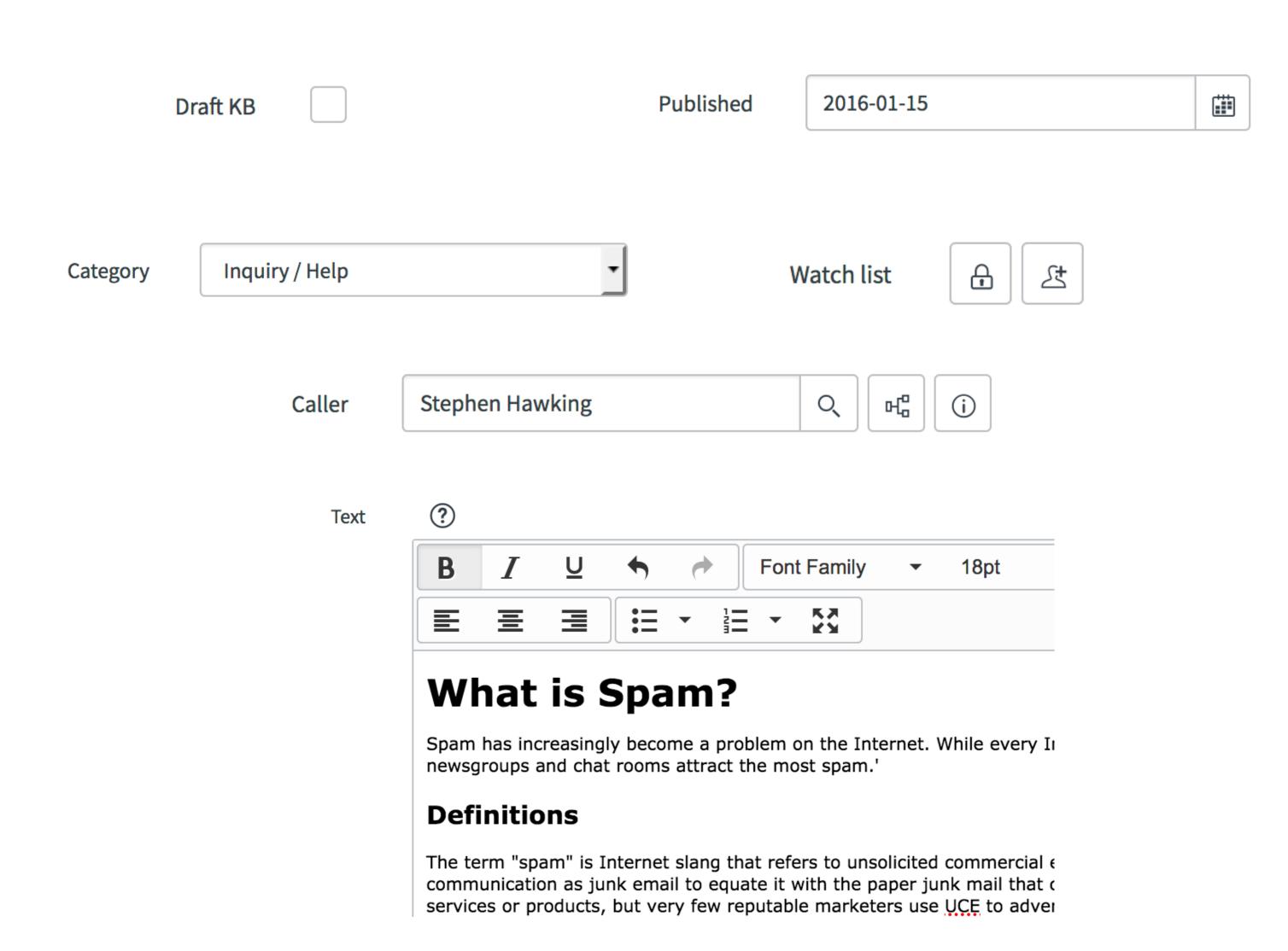
Fields

- Each table contains many fields
- Different field types
- Calculated values
- Attributes
- Default values
- Dictionary overrides



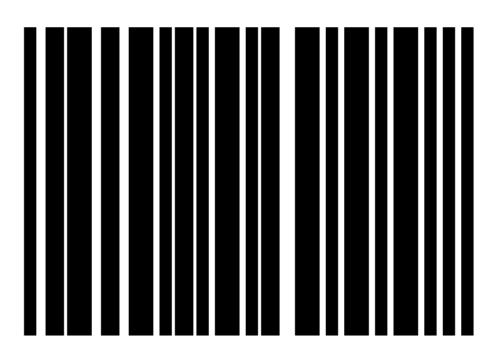
Field Types

- String
- Date
- Time
- Choice
- True/False
- List
- HTML
- Script
- Reference



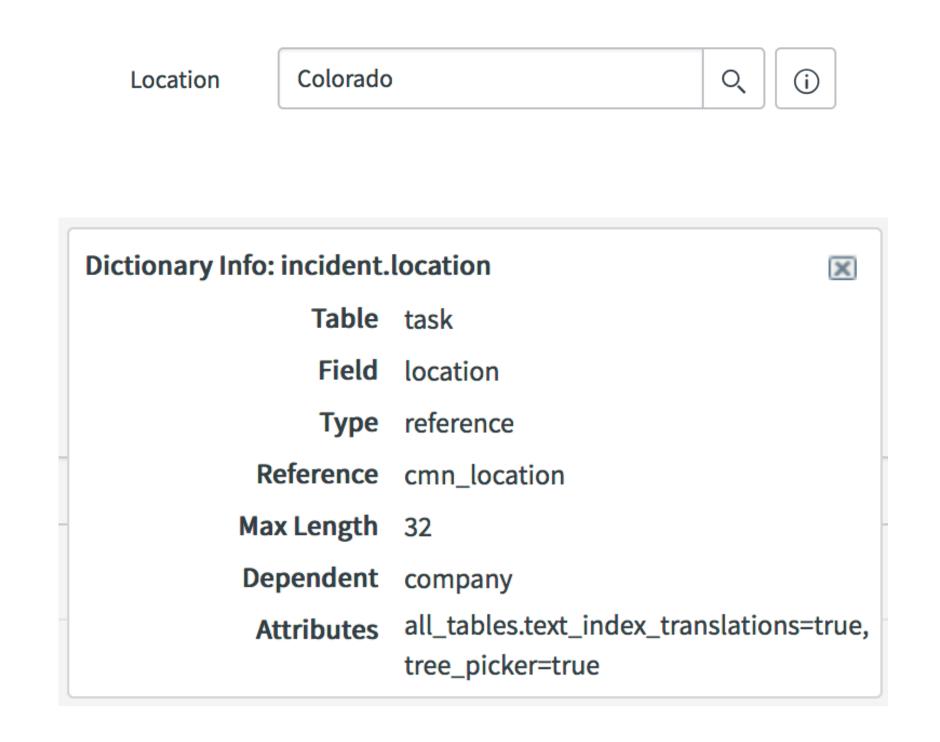
Globally Unique Identifier (GUID)

- Referred to by sys_id
- A unique 32-character hexadecimal string
- Every record has a sys_id
- sys_id's are automatically generated for all records
- Example: ef4225a40a0a0b5700d0b8a790747812



Reference Fields

- Power of RDBMS
- References are everywhere
- Store sys_id in reference field
- Must match exact record (1 to 1)
- Reference qualifiers

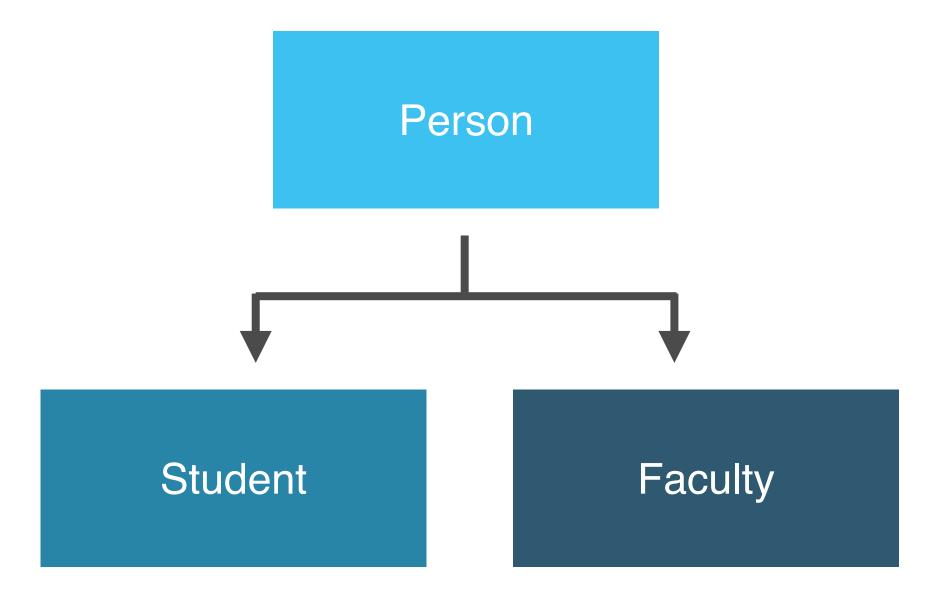


Fields & Field Types

Demo

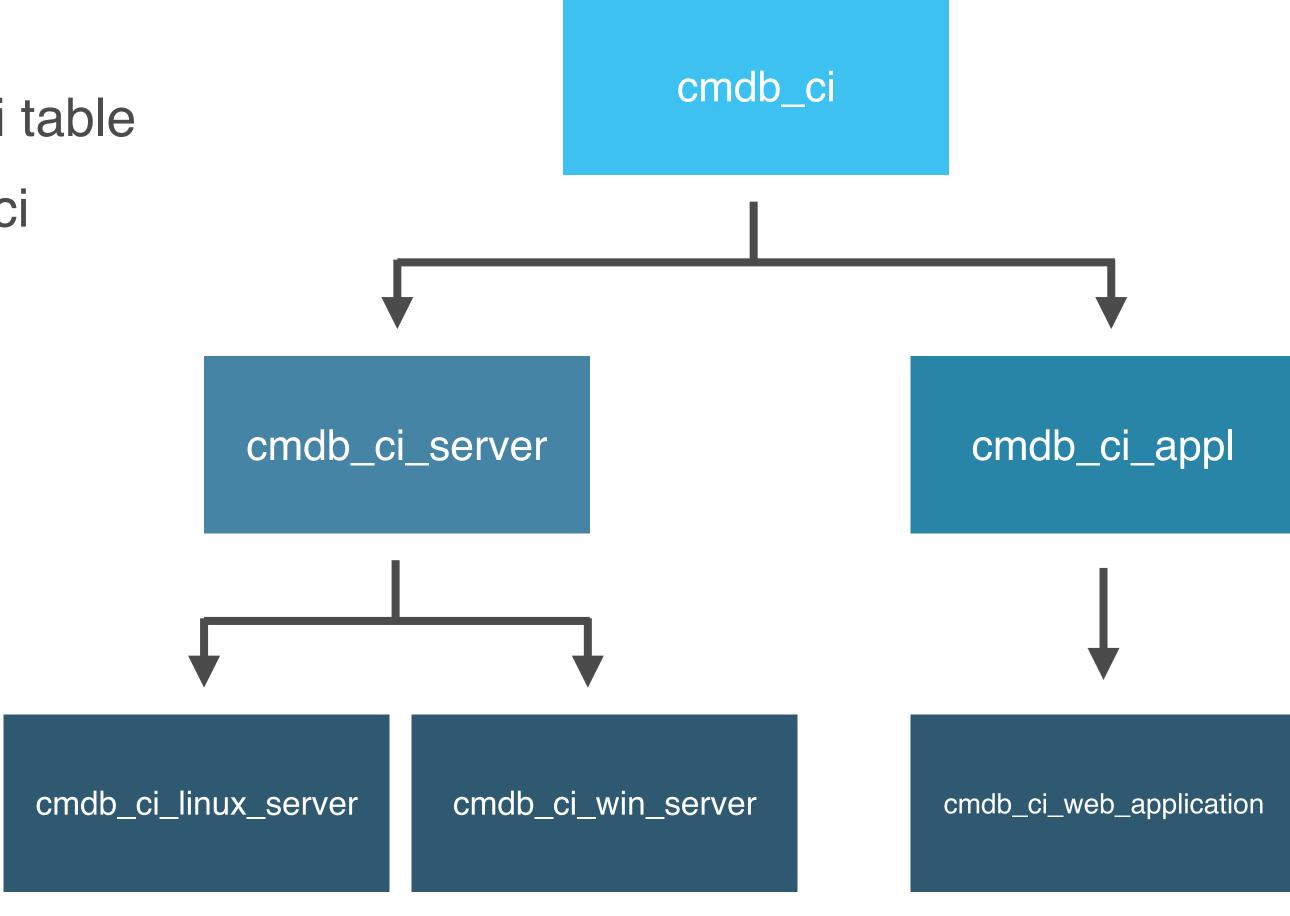
Table Relationships

- Example:
 - Person table has first name and last name fields
 - Student & Faculty tables extend Person table, thus Student and Faculty tables inherit first name and last name fields
- Dictionary overrides
- Very common in CMDB



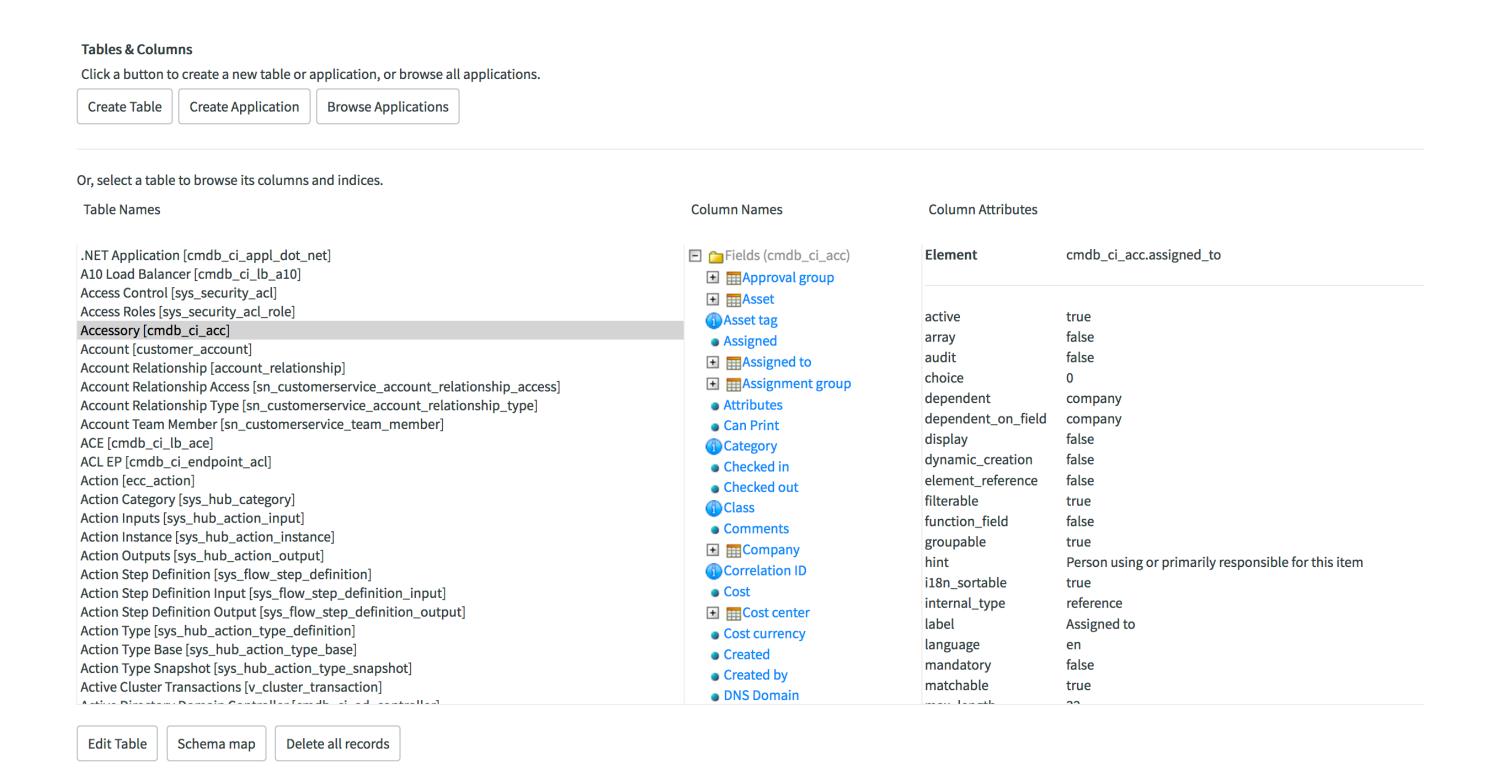
Example: CMDB Tree Structure

- Hundreds of CMDB tables
- Majority of tables extend cmdb_ci table
- New CI classes extended cmdb_ci



Tables & Columns Module

- Great for exploring tables and fields
- Shows field attributes
- Link to schema map



Schema Map

- Visual schema map
- Shows extended tables
- Focus on different tables

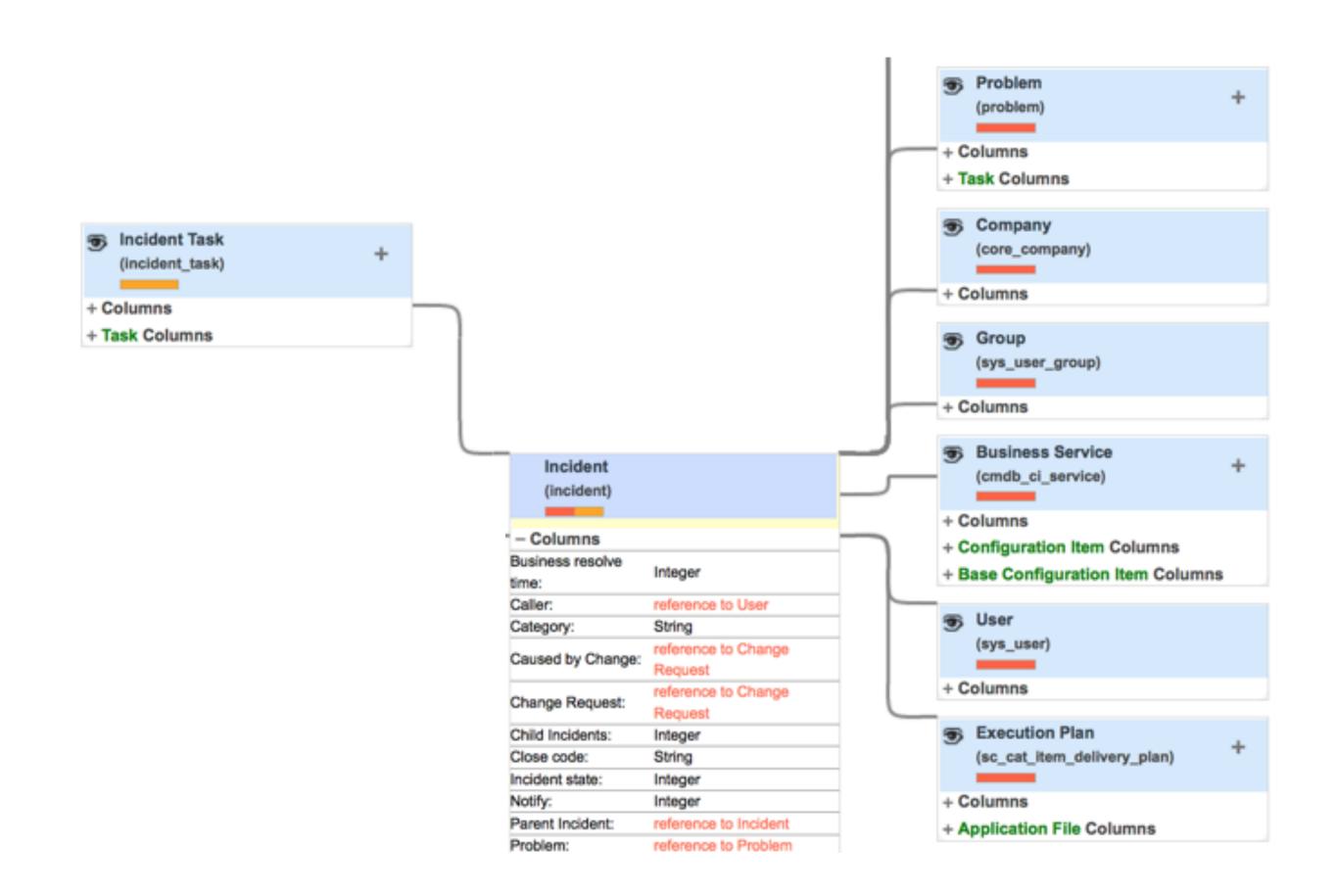
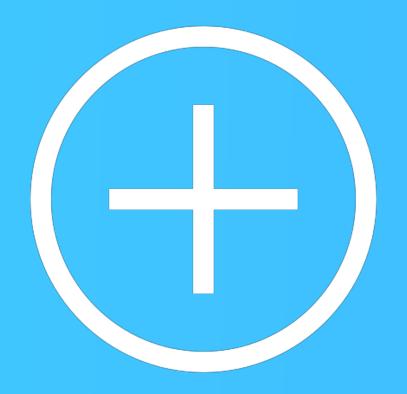


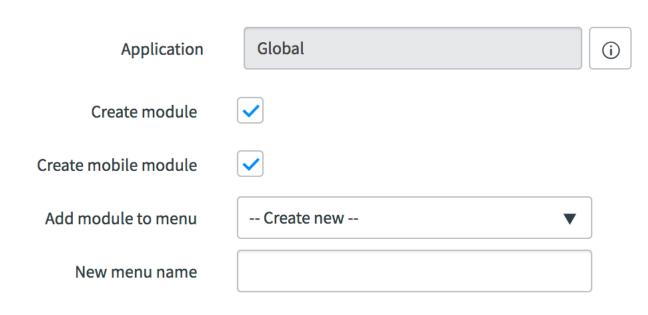
Table Structure & Schema Map

Demo



Create a Table

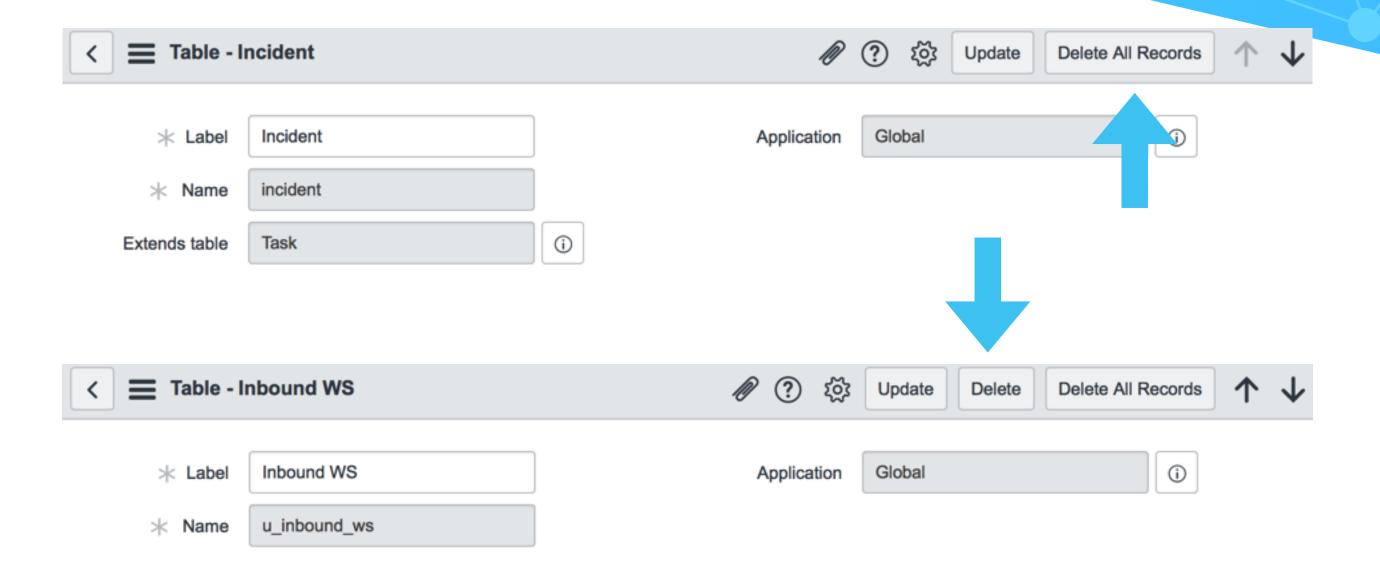




- Label
 - Human readable
 - May have spaces
- Name
 - No spaces
 - Lowercase
- Create a new module and/or role
- Add module to existing app



Delete a Table



- · First delete all records, then delete table
- Cannot delete out-of-box tables

Creating an Application

- 3 templates
 - From scratch
 - Create custom application
 - Start from template
- Application scope

Get started building applications



Start from scratch

Create an empty application.

Start with a blank slate when building workflow, activity or API based apps and components.



Create custom application

Create a powerful business application in two clicks.

Start with a table, menu and simple access controls. Then build from there using all of the power of the platform behind you.



Start from a template

Create an advanced task-oriented solution instantly by starting from a template.

Get a head start on an enterprise-grade service management solution, right now.

Table Maintenance & Custom Apps

Demo

